

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 9/23/2015 Revision date: 9/8/2023 Supersedes: 10/21/2022 Version: 2.2

SECTION 1: Identification	
1.1. Identification	
Product form Product name Product code	<ul> <li>Mixture</li> <li>EXPANDED POPS PESTICIDES CALIBRATION SOLUTION CS3 (UNLABELED/13C, 99%) IN NONANE/ISOOCTANE</li> <li>ES-5464-CS3</li> </ul>
1.2. Recommended use and restrictions on	
1.2. Recommended use and restrictions of	luse
No additional information available	
1.3. Supplier	
Cambridge Isotope Laboratories, Inc. 50 Frontage Rd 01810 ANDOVER, MA, 01810 USA T 1-800-322-1174 <u>cilsales@isotope.com</u> - <u>www.isotope.com</u>	
1.4. Emergency telephone number	
Emergency number	: 1-703-741-5970 Chemtrec 1-800-424-9300 24 hours

#### SECTION 2: Hazard(s) identification

#### **GHS US classification**

Flammable liquids Category 3	H226	Flammable liquid and vapor
Acute toxicity (inhalation) Category 4	H332	Harmful if inhaled
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	May cause drowsiness or dizziness
Aspiration hazard Category 1	H304	May be fatal if swallowed and enters airways
Hazardous to the aquatic environment – Chronic Hazard Category 3	H412	Harmful to aquatic life with long lasting effects
Full text of H statements : see section 16		

2.2. GHS Label elements, including precautionary statements

#### **GHS US labeling**

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)



: Danger

H226 - Flammable liquid and vapor
 H304 - May be fatal if swallowed and enters airways
 H315 - Causes skin irritation
 H332 - Harmful if inhaled

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Precautionary statements (GHS US)	<ul> <li>H336 - May cause drowsiness or dizziness</li> <li>H412 - Harmful to aquatic life with long lasting effects</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. heat, hot surfaces, open flames, sparks</li> <li>P233 - Keep container tightly closed.</li> <li>P240 - Ground/Bond container and receiving equipment.</li> <li>P241 - Use explosion-proof electrical, lighting, ventilating equipment.</li> <li>P242 - Use only non-sparking tools.</li> <li>P243 - Take precautionary measures against static discharge.</li> <li>P261 - Avoid breathing fume, mist, spray, vapors.</li> <li>P264 - Wash Both hands thoroughly after handling.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear eye protection, face protection, protective clothing, protective gloves.</li> <li>P301+P310 - If swallowed: Immediately call a poison center or doctor.</li> <li>P302+P352 - If on skin: Wash with plenty of water.</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.</li> <li>P312 - Call a poison center or doctor if you feel unwell.</li> <li>P321 - Specific treatment (see Hazard pictograms (CLP) on this label).</li> <li>P331 - Do NOT induce vomiting.</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P322+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water spray to extinguish.</li> <li>P403+P233 - Store in a well-ventilated place. Keep cool.</li> <li>P403+P233 - Store in a well-ventilated place. Keep cool.</li> <li>P405 - Store locked up.</li> <li>P501 - Dispose of contents/container to Comply with applicable regulations.</li> </ul>
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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

#### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
N-NONANE UNLABELED	CAS-No.: 111-84-2	99.97098781 4	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304

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Name	Product identifier	%	GHS US classification
ISOOCTANE UNLABELED	CAS-No.: 540-84-1	0.028896587 1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HEXACHLOROBENZENE (13C6, 99%)	CAS-No.: 118-74-1	0.000002785 5	Carc. 1B, H350 STOT RE 1, H372 Aquatic Chronic 1, H410
ALDRIN (13C12, 99%)	CAS-No.: 309-00-2 (Unlabeled)	0.000002785 5	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PENTACHLOROBENZENE (13C6, 99%)	CAS-No.: 608-93-5 (Unlabeled)	0.000002785 5	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DIELDRIN (13C12, 98-99%)	CAS-No.: 60-57-1 (Unlabeled)	0.000002785 5	Acute Tox. 1 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 1 (Inhalation:dust,mist), H330 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
OXYCHLORDANE (13C10, 99%)	CAS-No.: 27304-13-8 (Unlabeled)	0.000002785 5	Acute Tox. 4 (Oral), H302
TRANS-NONACHLOR (13C10, 98%)	CAS-No.: 39765-80-5 (Unlabeled)	0.000002785 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CIS-NONACHLOR (13C10, 98%)	CAS-No.: 5103-73-1 (Unlabeled)	0.000002785 5	Acute Tox. 4 (Oral), H302 Aquatic Chronic 1, H410
4,4'-DDE (RING-13C12, 99%)	CAS-No.: 72-55-9 (Unlabeled)	0.000002785 5	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4'-DDT (RING-13C12, 99%)	CAS-No.: 789-02-6 (Unlabeled)	0.000002785 5	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	GHS US classification
4,4'-DDT (RING-13C12, 99%)	CAS-No.: 50-29-3	0.000002785 5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 1, H410
ENDRIN (13C12, 99%)	CAS-No.: 72-20-8 (Unlabeled)	0.000002785 5	Acute Tox. 1 (Oral), H300 Acute Tox. 2 (Dermal), H310 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	CAS-No.: 5103-74-2 (Unlabeled)	0.000002785 5	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400
2,4'-DDD (RING-13C12, 99%)	CAS-No.: 53-19-0 (Unlabeled)	0.000002785 5	Carc. 1B, H350
2,4'-DDE (RING-13C12, 99%)	CAS-No.: 3424-82-6 (Unlabeled)	0.000002785 5	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DELTA-BHC (13C6, 99%)	CAS-No.: 319-86-8 (Unlabeled)	0.000002785 5	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
MIREX (13C10, 98%)	CAS-No.: 2385-85-5 (Unlabeled)	0.000002785 5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
BETA-BHC (13C6, 99%)	CAS-No.: 319-85-7 (Unlabeled)	0.000002785 5	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CIS-HEPTACHLOR EPOXIDE (13C10, 99%)	CAS-No.: 1024-57-3 (Unlabeled)	0.000002785 5	Acute Tox. 2 (Oral), H300 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400
HEPTACHLOR (13C10, 99%)	CAS-No.: 76-44-8 (Unlabeled)	0.000002785 5	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 Aquatic Chronic 1, H410
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%)	CAS-No.: 33213-65-9 (Unlabeled)	0.000002785 5	Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	GHS US classification
ENDOSULFAN I (13C9, 99%)	CAS-No.: 959-98-8 (Unlabeled)	0.000002785 5	Acute Tox. 1 (Oral), H300 Acute Tox. 4 (Dermal), H312 Acute Tox. 1 (Inhalation), H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
KEPONE (CHLORDECONE) (13C10, 99%)	CAS-No.: 143-50-0 (Unlabeled)	0.000002785 5	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ALPHA-HCH (ALPHA-BHC) (13C6, 99%)	CAS-No.: 319-84-6	0.000002785 5	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DDD (RING-13C12, 99%)	CAS-No.: 72-54-8 (Unlabeled)	0.000002785 5	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3',4',5-TETRACB (PCB-70) (13C12, 99%)	CAS-No.: 208263-81- 4	0.000002785 5	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DICB (PCB-15) (13C12, 99%)	CAS-No.: 208263-67- 6	0.000002785 5	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LINDANE (13C6, 99%)	CAS-No.: 58-89-9 (Unlabeled)	0.000002785 5	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Lact., H362 STOT SE 2, H371 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%)	CAS-No.: 465-73-6 (Unlabeled)	0.000002785 5	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DDE UNLABELED	CAS-No.: 72-55-9	0.0000014	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ENDOSULFAN II UNLABELED	CAS-No.: 33213-65-9	0.0000014	Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HEXACHLOROBENZENE UNLABELED	CAS-No.: 118-74-1	0.000001392 8	Carc. 1B, H350 STOT SE 1, H370 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	GHS US classification
PENTACHLOROBENZENE UNLABELED	CAS-No.: 608-93-5	0.000001392 8	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ALDRIN UNLABELED	CAS-No.: 309-00-2	0.000001392 8	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4'-DDT UNLABELED (97% CHEMICAL PURITY)	CAS-No.: 789-02-6	0.000001392 8	Acute Tox. 3 (Oral), H301 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DIELDRIN UNLABELED	CAS-No.: 60-57-1	0.000001392 8	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ENDRIN UNLABELED	CAS-No.: 72-20-8	0.000001392 8	Acute Tox. 1 (Oral), H300 Acute Tox. 2 (Dermal), H310 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DDT UNLABELED	CAS-No.: 50-29-3	0.000001392 8	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LINDANE UNLABELED	CAS-No.: 58-89-9	0.000001392 8	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Lact., H362 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
MIREX UNLABELED	CAS-No.: 2385-85-5	0.000001392 8	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ALPHA-BHC UNLABELED	CAS-No.: 319-84-6	0.000001392 8	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	GHS US classification
DELTA-BHC UNLABELED	CAS-No.: 319-86-8	0.000001392 8	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HEPTACHLOR UNLABELED	CAS-No.: 76-44-8	0.000001392 8	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 Aquatic Chronic 1, H410
CIS-CHLORDANE(ALPHA) UNLABELED	CAS-No.: 5103-71-9	0.000001392 8	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
TRANS-NONACHLOR UNLABELED	CAS-No.: 39765-80-5	0.000001392 8	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CIS-NONACHLOR UNLABELED	CAS-No.: 5103-73-1	0.000001392 8	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400
CIS-HEPTACHLOR EPOXIDE UNLABELED	CAS-No.: 1024-57-3	0.000001392 8	Acute Tox. 2 (Oral), H300 Carc. 2, H351 STOT RE 2, H373 Aquatic Chronic 1, H410
TRANS-HEPTACHLOR EPOXIDE UNLABELED	CAS-No.: 28044-83-9	0.000001392 8	Acute Tox. 2 (Oral), H300 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
TRANS-CHLORDANE (GAMMA) UNLABELED	CAS-No.: 5103-74-2	0.000001392 8	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4'-DDD UNLABELED	CAS-No.: 53-19-0	0.000001392 8	Carc. 2, H351
2,4'-DDE UNLABELED	CAS-No.: 3424-82-6	0.000001392 8	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DDD UNLABELED	CAS-No.: 72-54-8	0.000001392 8	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Chronic 1, H410

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Name	Product identifier	%	GHS US classification
BETA-BHC UNLABELED	CAS-No.: 319-85-7	0.000001392 8	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
OXYCHLORDANE UNLABELED	CAS-No.: 27304-13-8	0.000001392 8	Acute Tox. 4 (Oral), H302
KEPONE (CHLORDECONE) UNLABELED	CAS-No.: 143-50-0	0.000001392 8	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ENDOSULFAN I UNLABELED	CAS-No.: 959-98-8	0.000001392 8	Acute Tox. 1 (Oral), H300 Acute Tox. 4 (Dermal), H312 Acute Tox. 1 (Inhalation), H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Immediately call a poison center or doctor/physician.
4.2. Most important symptoms and effe	cts (acute and delayed)
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects	: May cause drowsiness or dizziness.
	: Harmful if inhaled.
Symptoms/effects after inhalation	
	: Causes skin irritation.
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	: Causes skin irritation. : Causes serious eye irritation.

Treat symptomatically.

SECTION 5: Fire-fighting measures
5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media

: Water spray. Dry powder. Foam. Carbon dioxide. Alcohol resistant foam.

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SECTION 6: Accidental release measures

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5.2. Specific hazards arising from the chemical		
Explosion hazard	<ul> <li>Flammable liquid and vapor.</li> <li>May form flammable/explosive vapor-air mixture.</li> <li>Toxic fumes may be released.</li> </ul>	
5.3. Special protective equipment and precautions for fire-fighters		
Firefighting instructions Protection during firefighting	<ul> <li>Do not enter fire area without proper protective equipment, including respiratory protection.</li> <li>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>	

6.1. Personal precautions, protective equipment and emergency procedures		
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.	
6.1.1. For non-emergency personnel		
Emergency procedures	: Wear personal protective equipment. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	
6.2. Environmental precautions		
Avoid release to the environment.		
6.3. Methods and material for containment and cleaning up		
For containment	· Dike and contain apill. Diapage as hazardous waste. Comply with least regulations for diapage	

For containment	: Dike and contain spill. Dispose as hazardous waste. Comply with local regulations for disposal.
	Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into
	container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or
	earth for subsequent safe disposal.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public
	waters.
Other information	: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage	9
7.1. Precautions for safe handling	
Additional hazards when processed Precautions for safe handling	<ul> <li>Handle empty containers with care because residual vapors are flammable.</li> <li>No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area.</li> </ul>
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.

Storage conditions Incompatible materials Store at room temperature away from light and moisture.Heat sources.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

EXPANDED POPS PESTICIDES CALIBRATION	N SOLUTION CS3 (UNLABELED/13C, 99%) IN NONANE/ISOOCTANE	
USA - ACGIH - Occupational Exposure Limits		
Local name	Nonane	
ACGIH OEL TWA [ppm]	200 ppm USA. ACGIH Threshold Limit Values (TLV)	
Remark (ACGIH)	CNS impair	
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
HEXACHLOROBENZENE (13C6, 99%) (118-74	-1)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.002 mg/m <sup>3</sup> Central Nervous System impairment. Porphyrin effects. Skin damage. Confirmed animal carcinogen with unknown relevance to humans. Danger of cutaneous absorption. USA. ACGHIH Threshold Limit Values (TLV)	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL C	0.002 mg/m <sup>3</sup> California permissible exposure limits for chemical contaminants (Title 8, Article 107) - Skin	
HEXACHLOROBENZENE UNLABELED (118-74-1 )		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0 mg/m³ Central Nervous System impairment. Porphyrin effects. Skin damage.	
ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.05 mg/m³ ACGIH Threshold Limit Values (TLV)	
Remark (ACGIH)	Central Nervous System impairment Liver damage Kidney damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1]	0.25 mg/m <sup>3</sup> USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	
OSHA PEL STEL [1]	0.25 mg/m <sup>3</sup> California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
Remark (OSHA)	Skin designation	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	0.25 mg/m <sup>3</sup> USA. NIOSH Recommended Exposure Limits.	
Remark (NIOSH)	Potential Occupational Carcinogen See Appendix A Potential for dermal absorption	

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ca ALDRIN UNLABELED (309-00-2) USA - ACGIH - Occupational Exposure Limits		
PENTACHLOROBENZENE UNLABELED (608-93- USA - ACGIH - Occupational Exposure Limits         ACGIH chemical category       Nc         ALDRIN UNLABELED (309-00-2)       VSA - ACGIH - Occupational Exposure Limits         ACGIH OEL TWA       0.0	o component of this product present at levels greater than or equal to 0.1% is identifiable as a rcinogen or potential carcinogen by ACGIH.	
USA - ACGIH - Occupational Exposure Limits         ACGIH chemical category       No         ALDRIN UNLABELED (309-00-2)       VISA - ACGIH - Occupational Exposure Limits         ACGIH OEL TWA       0.0	o component of this product present at levels greater than or equal to 0.1% is identifiable as a rcinogen or potential carcinogen by ACGIH.	
ACGIH chemical category No ca ALDRIN UNLABELED (309-00-2) USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 0.0	D5 mg/m <sup>3</sup> Skin contact does contribute to exposure. Confirmed animal carcinogen.	
ca       ALDRIN UNLABELED (309-00-2)       USA - ACGIH - Occupational Exposure Limits       ACGIH OEL TWA     0.0	D5 mg/m <sup>3</sup> Skin contact does contribute to exposure. Confirmed animal carcinogen.	
USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA 0.0		
ACGIH OEL TWA 0.0		
USA - OSHA - Occupational Exposure Limits	25 mg/m <sup>3</sup> Skin notation	
	25 mg/m <sup>3</sup> Skin notation	
OSHA PEL TWA [1] 0.2		
DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
	25 mg/m <sup>3</sup> Liver damage. Central Nervous System convulsion. Danger of cutaneous sorption	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1] 0.2	25 mg/m <sup>3</sup> Skin notation	
OXYCHLORDANE (13C10, 99%) (27304-13-8 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
	o component of this product present at levels greater than or equal to 0.1% is identifiable as a rcinogen or potential carcinogen by ACGIH.	
TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
	o component of this product present at levels greater than or equal to 0.1% is identifiable as a rcinogen or potential carcinogen by ACGIH.	
CIS-NONACHLOR (13C10, 98%) (5103-73-1 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
• •	o component of this product present at levels greater than or equal to 0.1% is identifiable as a rcinogen or potential carcinogen by ACGIH.	
4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
	o component of this product present at levels greater than or equal to 0.1% is identifiable as a rcinogen or potential carcinogen by ACGIH.	
2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
	o component of this product present at levels greater than or equal to 0.1% is identifiable as a rcinogen or potential carcinogen by ACGIH.	

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4,4'-DDT (RING-13C12, 99%) (50-29-3)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	1 mg/m <sup>3</sup> Liver damage. Confirmed animal carcinogen with unknown relevance to humans.	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1]	1 mg/m³ Skin designation	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	0.5 mg/m³ Potential Occupational Carcinogen	
ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.1 mg/m <sup>3</sup> Central Nervous System impairment, Headache, Liver damage	
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1]	0.1 mg/m <sup>3</sup> Danger of cutaneous absorption, not classifiable a a human carcinogen	
TRANS-CHLORDANE (GAMMA) (13C10, 99%) (5103-74-2 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
2,4'-DDD (RING-13C12, 99%) (53-19-0 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)		
No additional information available		
2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unla	beled))	
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
DIELDRIN UNLABELED (60-57-1)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.25 mg/m <sup>3</sup> Liver damage. Central Nervous System convulsion. Danger of cutaneous absorption	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1]	0.25 mg/m <sup>3</sup> Skin notation	
ENDRIN UNLABELED (72-20-8)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.1 mg/m <sup>3</sup> Central Nervous System impairment, Headache, Liver damage	
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
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ENDRIN UNLABELED (72-20-8)		
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1]	0.1 mg/m <sup>3</sup> Danger of cutaneous absorption, not classifiable a a human carcinogen	
4,4'-DDT UNLABELED (50-29-3 )		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	1 mg/m <sup>3</sup> Liver damage. Confirmed animal carcinogen with unknown relevance to humans.	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1]	1 mg/m³ Skin notation	
N-NONANE UNLABELED (111-84-2)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Nonane	
ACGIH OEL TWA [ppm]	200 ppm USA. ACGIH Threshold Limit Values (TLV)	
Remark (ACGIH)	CNS impair	
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1]	1050 mg/m <sup>3</sup> USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000	
OSHA PEL TWA [2]	200 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000	
OSHA PEL C	1050 California permissible exposure limits for chemical contaminants.	
OSHA PEL C [ppm]	200 ppm California permissible exposure limits for chemical contaminants.	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	1050 mg/m <sup>3</sup> USA. NIOSH Recommended Exposure Limits	
NIOSH REL TWA [ppm]	200 ppm USA. NIOSH Recommended Exposure Limits	
Remark (NIOSH)	Central Nervous System impairment	
ISOOCTANE UNLABELED (540-84-1)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA [ppm]	300 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)	
Remark (ACGIH)	Upper Respiratory Tract irritation	
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
DELTA-BHC (13C6, 99%) (319-86-8 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
MIREX (13C10, 98%) (2385-85-5 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	

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BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled	))	
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (10	024-57-3 (Unlabeled))	
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
HEPTACHLOR (13C10, 99%) (76-44-8 (Unlabe	led))	
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as probable, possible, or confirmed human carcinogen by IARC.	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1]	0.5 mg/m <sup>3</sup> USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants. California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	0.5 mg/m <sup>3</sup> USA. NIOSH Recommended Exposure Limits	
Remark (NIOSH)	Potential Occupational Carcinogen. See Appendix A. Potential for dermal absorption.	
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%) (33213-65-9 (Unlabeled))		
No additional information available		
ENDOSULFAN I (13C9, 99%) (959-98-8 (Unlab	eled))	
No additional information available		
KEPONE (CHLORDECONE) (13C10, 99%) (143-50-0 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
ALPHA-HCH (ALPHA-BHC) (13C6, 99%) (319-84-6)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
LINDANE UNLABELED (58-89-9)		
No additional information available		

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2,3',4',5-TETRACB (PCB-70) (13C12, 99%) (208263-81-4)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
4,4'-DICB (PCB-15) (13C12, 99%) (208263-67-6	6)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
MIREX UNLABELED (2385-85-5)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
ALPHA-BHC UNLABELED (319-84-6)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
DELTA-BHC UNLABELED (319-86-8)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
HEPTACHLOR UNLABELED (76-44-8)		
USA - OSHA - Occupational Exposure Limits		
OSHA PEL TWA [1]	0.5 mg/m³ USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants. California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
Remark (OSHA)	Skin designation	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	0.5 mg/m <sup>3</sup> USA. NIOSH Recommended Exposure Limits	
Remark (NIOSH)	Potential Occupational Carcinogen. See Appendix A. Potential for dermal absorption.	
CIS-CHLORDANE(ALPHA) UNLABELED (5103	3-71-9)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
TRANS-NONACHLOR UNLABELED (39765-80-5)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
CIS-NONACHLOR UNLABELED (5103-73-1)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	

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CIS-HEPTACHLOR EPOXIDE UNLABELED (10	)24-57-3 )	
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
TRANS-HEPTACHLOR EPOXIDE UNLABELED	D (28044-83-9)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
TRANS-CHLORDANE (GAMMA) UNLABELED	(5103-74-2)	
No additional information available		
2,4'-DDD UNLABELED (53-19-0)		
No additional information available		
2,4'-DDE UNLABELED (3424-82-6)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
4,4'-DDD UNLABELED (72-54-8)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
BETA-BHC UNLABELED (319-85-7)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
OXYCHLORDANE UNLABELED (27304-13-8)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
KEPONE (CHLORDECONE) UNLABELED (143-50-0)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL TWA	0.001 mg/m <sup>3</sup> Remarks: Potential Occupational Carcinogen ; USA. NIOSH Recommended Exposure Limits	
ENDOSULFAN I UNLABELED (959-98-8)		
No additional information available		

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LINDANE (13C6, 99%) (58-89-9 (Unlabeled))		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.5 mg/m³	
ISODRIN (CHEMICAL PURITY 95%) (13C12, 9	9%) (465-73-6 (Unlabeled))	
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
4,4'-DDE UNLABELED (72-55-9)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH chemical category	No component of this product present at levels greater than or equal to 0.1% is identifiable as a carcinogen or potential carcinogen by ACGIH.	
ENDOSULFAN II UNLABELED (33213-65-9)		
No additional information available		
8.2. Appropriate engineering controls		
	Ensure good ventilation of the work station. Avoid release to the environment.	
8.3. Individual protection measures/Personal protective equipment		
Personal protective equipment: Protective clothing. Protective goggles. Gloves. Self-corr	atained breathing apparatus.	
Materials for protective clothing:		
Wear suitable protective clothing and gloves		
Hand protection:		
Wear suitable protective clothing and gloves		
Eye protection:		
Chemical goggles or face shield. Chemical goggles or safety glasses		
Skin and body protection:		
Wear suitable protective clothing		
Respiratory protection:		
Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection.		

#### Personal protective equipment symbol(s):



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#### **SECTION 9: Physical and chemical properties**

Physical state	: Liquid
Appearance	: Liquid.
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: -53 °C (- 63 °F) - lit
Boiling point	: 151 °C (304 °F) - lit
Flash point	: 31 °C (87.8 °F) - closed cup
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 5.69 hPa (4.27 mmHg) at 25 °C (77 °F)
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 0.718 g/ml at 25 °C (77 °F)
Molecular mass	: 128.3 g/mol
Solubility	: Water: 0.0002 %
Partition coefficient n-octanol/water (Log Pow)	: 5.65
Auto-ignition temperature	: 205 °C (401 °F)
Decomposition temperature	: No data available
Viscosity, kinematic	: ≤ 1.008 mm²/s at 20 °C (68 °F)
Viscosity, dynamic	: No data available
Explosion limits	: 0.87 – 2.9 % (V)
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Flammable liquid and vapor. Vapors may form flammable mixture with air.

**10.2. Chemical stability** 

See storage and expiration date on CoA.

**10.3. Possibility of hazardous reactions** 

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid** 

Open flame. Overheating. Direct sunlight. Heat. Sparks.

**10.5. Incompatible materials** 

No additional information available

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#### **10.6. Hazardous decomposition products**

May release flammable gases.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (dermal) :	Not classified Not classified Harmful if inhaled.	
EXPANDED POPS PESTICIDES CALIBRATION	SOLUTION CS3 (UNLABELED/13C, 99%) IN NONANE/ISOOCTANE	
LC50 Inhalation - Rat	23760 mg/m³ male - 4 h	
ATE US (gases)	3200 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	
ATE US (dust, mist)	1.5 mg/l/4h	
Additional data	Skin corrosion/irritation, Dermal, rat: Result: Skin Irritation (Draize Test) S. Typhimurium Result negative	
HEXACHLOROBENZENE (13C6, 99%) (118-74-	-1)	
LD50 oral rat	10000 mg/kg	
LD50 oral	> 3000 mg/kg Guinea pig	
LC50 Inhalation - Rat	3600 mg/m³	
Additional information	LD50 Oral Mouse - 1760 mg/kg	
HEXACHLOROBENZENE UNLABELED (118-74	4-1)	
LD50 oral rat	10000 mg/kg	
LC50 Inhalation - Rat	3600 mg/m³	
ATE US (oral)	10000 mg/kg body weight	
ATE US (vapors)	3.6 mg/l/4h	
ATE US (dust, mist)	3.6 mg/l/4h	
ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))		
LD50 oral rat	39 mg/kg	
LD50 dermal rat	15 mg/kg Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other changes. Behavioral:Convulsions or effect on seizure threshold. Behavioral:Excitement.	
ATE US (oral)	39 mg/kg body weight	
ATE US (dermal)	15 mg/kg body weight	
PENTACHLOROBENZENE (13C6, 99%) (608-93-5 (Unlabeled))		
LD50 oral rat	1080 mg/kg Remarks: Behavioral:General anesthetic. Behavioral:Tremor.	
LD50 dermal	> 2500 mg/kg - Rat	

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PENTACHLOROBENZENE UNLABELED (608-	93-5)	
LD50 oral rat	1080 mg/kg	
ATE US (oral)	1080 mg/kg body weight	
ALDRIN UNLABELED (309-00-2)		
LD50 oral rat	39 mg/kg	
ATE US (oral)	39 mg/kg body weight	
ATE US (dermal)	5 mg/kg body weight	
DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabeled	d))	
LD50 dermal rabbit	250 mg/kg	
LC50 Inhalation - Rat	13 mg/m³ 4 h	
ATE US (oral)	0.5 mg/kg body weight	
ATE US (dermal)	250 mg/kg body weight	
ATE US (vapors)	0.013 mg/l/4h	
ATE US (dust, mist)	0.013 mg/l/4h	
OXYCHLORDANE (13C10, 99%) (27304-13-8 (Unlabeled))		
LD50 oral rat	457 mg/kg	
ATE US (oral)	457 mg/kg body weight	
TRANS-NONACHLOR (13C10, 98%) (39765-80	-5 (Unlabeled))	
LD50 oral rat	500 mg/kg	
ATE US (oral)	500 mg/kg body weight	
CIS-NONACHLOR (13C10, 98%) (5103-73-1 (U	nlabeled))	
ATE US (oral)	500 mg/kg body weight	
4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))		
LD50 oral rat	880 mg/kg	
ATE US (oral)	880 mg/kg body weight	
2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))		
ATE US (oral)	100 mg/kg body weight	
4,4'-DDT (RING-13C12, 99%) (50-29-3)		
LD50 oral rat	87 mg/kg	
LD50 dermal rabbit	300 mg/kg Remarks: Behavioral:Tremor. Behavioral:Muscle weakness. Behavioral:Ataxia.	
ATE US (oral)	87 mg/kg body weight	
ATE US (dermal)	300 mg/kg body weight	
ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))		
LD50 oral rat	3 mg/kg	
LD50 dermal rabbit	60 mg/kg	

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ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))		
ATE US (oral) 3 mg/kg bo	dy weight	
ATE US (dermal) 60 mg/kg b	ody weight	
TRANS-CHLORDANE (GAMMA) (13C10, 99%) (5103-74-2	2 (Unlabeled))	
LD50 oral rat 1100 mg/kg	9	
ATE US (oral) 1100 mg/kg	g body weight	
2,4'-DDD (RING-13C12, 99%) (53-19-0 (Unlabeled))		
LD50 oral rat > 5000 mg/	/kg	
2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-0	2-6)	
LD50 oral Intraperitor	eal-mouse - 1,577mg/kg Tremor,Convulsions,Seizure threshold,Excitement	
ATE US (oral) 100 mg/kg	body weight	
2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))		
LD50 oral rat 880 mg/kg		
ATE US (oral) 880 mg/kg	body weight	
DIELDRIN UNLABELED (60-57-1)		
LD50 oral rat 38.3 mg/kg		
ATE US (oral) 5 mg/kg bo	dy weight	
ATE US (dermal) 5 mg/kg bo	dy weight	
ENDRIN UNLABELED (72-20-8)		
LD50 oral rat 3 mg/kg		
LD50 dermal rabbit 60 mg/kg		
ATE US (oral) 3 mg/kg bo	dy weight	
ATE US (dermal) 60 mg/kg b	ody weight	
4,4'-DDT UNLABELED (50-29-3)		
LD50 oral rat 87 mg/kg		
LD50 dermal rabbit 300 mg/kg		
ATE US (oral) 87 mg/kg b	ody weight	
ATE US (dermal) 300 mg/kg	body weight	
N-NONANE UNLABELED (111-84-2)		
LC50 Inhalation - Rat 23760 mg/u	m³ male - 4 h	
ATE US (gases) 4500 ppm	//4h	
ATE US (vapors) 11 mg/l/4h		
ATE US (dust, mist) 1.5 mg/l/4h		
Skin corrosion/irritation, Dermal, rat Result: Skin	n Irritation (Draize Test)	
Additional information : S. Typhin	nurium Result: negative	

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ISOOCTANE UNLABELED (540-84-1)		
LD50 oral rat	> 5000 mg/kg (OECD Test Guideline 401)	
LD50 dermal rabbit	> 2000 mg/kg (OECD Test Guideline 402)	
LC50 Inhalation - Rat	> 33.52 mg/l/4h (OECD Test Guideline 403)	
DELTA-BHC (13C6, 99%) (319-86-8 (Unlabeled	))	
LD50 oral rat	1000 mg/kg	
ATE US (oral)	100 mg/kg body weight	
ATE US (dermal)	1100 mg/kg body weight	
MIREX (13C10, 98%) (2385-85-5 (Unlabeled))		
LD50 oral rat	235 mg/kg	
LD50 dermal rabbit	800 mg/kg	
ATE US (oral)	235 mg/kg body weight	
ATE US (dermal)	300 mg/kg body weight	
BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))		
LD50 oral rat	6000 mg/kg	
ATE US (oral)	100 mg/kg body weight	
ATE US (dermal)	1100 mg/kg body weight	
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (10	24-57-3 (Unlabeled))	
LD50 oral rat	15 mg/kg	
ATE US (oral)	15 mg/kg body weight	
HEPTACHLOR (13C10, 99%) (76-44-8 (Unlabel	ed))	
LD50 oral rat	40 mg/kg	
LD50 dermal rat	119 mg/kg	
ATE US (oral)	40 mg/kg body weight	
ATE US (dermal)	5 mg/kg body weight	
ENDOSULFAN II (CHEMICAL PURITY >95%) (	13C9, 99%) (33213-65-9 (Unlabeled))	
LD50 oral rat	240 mg/kg	
ATE US (oral)	240 mg/kg body weight	
ENDOSULFAN I (13C9, 99%) (959-98-8 (Unlabe	eled))	
ATE US (oral)	0.5 mg/kg body weight	
ATE US (dermal)	1100 mg/kg body weight	
ATE US (gases)	10 ppmV/4h	
ATE US (vapors)	0.05 mg/l/4h	
ATE US (dust, mist)	0.005 mg/l/4h	
KEPONE (CHLORDECONE) (13C10, 99%) (143-50-0 (Unlabeled))		
LD50 oral rat	91.3 mg/kg	

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	KEPONE (CHLORDECONE) (13C10, 99%) (143-50-0 (Unlabeled))		
LD50 dermal rabbit	345 mg/kg		
ATE US (oral)	91.3 mg/kg body weight		
ATE US (dermal)	345 mg/kg body weight		
ALPHA-HCH (ALPHA-BHC) (13C6, 99%) (319-8	34-6)		
LD50 oral rat	177 mg/kg		
ATE US (oral)	177 mg/kg body weight		
ATE US (dermal)	1100 mg/kg body weight		
4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabel	led))		
ATE US (oral)	100 mg/kg body weight		
ATE US (dermal)	1100 mg/kg body weight		
LINDANE UNLABELED (58-89-9)			
ATE US (oral)	100 mg/kg body weight		
ATE US (dermal)	1100 mg/kg body weight		
ATE US (gases)	4500 ppmV/4h		
ATE US (vapors)	11 mg/l/4h		
ATE US (dust, mist)	1.5 mg/l/4h		
MIREX UNLABELED (2385-85-5)			
LD50 oral rat	235 mg/kg		
ATE US (oral)	235 mg/kg body weight		
ATE US (dermal)	300 mg/kg body weight		
ALPHA-BHC UNLABELED (319-84-6)			
LD50 oral rat	177 mg/kg		
ATE US (oral)	177 mg/kg body weight		
ATE US (dermal)	1100 mg/kg body weight		
DELTA-BHC UNLABELED (319-86-8)			
LD50 oral rat	1000 mg/kg		
ATE US (oral)	100 mg/kg body weight		
ATE US (dermal)	1100 mg/kg body weight		
HEPTACHLOR UNLABELED (76-44-8)			
LD50 oral rat	40 mg/kg		
LD50 dermal rat	119 mg/kg		
ATE US (oral)	40 mg/kg body weight		
ATE US (dermal)	5 mg/kg body weight		
CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)			
LD50 oral rat	500 mg/kg		

### Safety Data Sheet

	CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)	
ATE US (oral)	500 mg/kg body weight	
ATE US (dermal)	300 mg/kg body weight	
ATE US (gases)	4500 ppmV/4h	
ATE US (vapors)	11 mg/l/4h	
ATE US (dust, mist)	1.5 mg/l/4h	
TRANS-NONACHLOR UNLABELED (39765-80-		
LD50 oral rat	500 mg/kg	
ATE US (oral)	500 mg/kg body weight	
CIS-NONACHLOR UNLABELED (5103-73-1)		
ATE US (oral)	500 mg/kg body weight	
CIS-HEPTACHLOR EPOXIDE UNLABELED (10	)24-57-3)	
LD50 oral rat	15 mg/kg	
ATE US (oral)	15 mg/kg body weight	
TRANS-HEPTACHLOR EPOXIDE UNLABELED (28044-83-9)		
LD50 oral rat	15 mg/kg	
ATE US (oral)	15 mg/kg body weight	
TRANS-CHLORDANE (GAMMA) UNLABELED	(5103-74-2)	
LD50 oral rat	1100 mg/kg	
LD50 oral	275 mg/kg mouse	
ATE US (oral)	1100 mg/kg body weight	
2,4'-DDD UNLABELED (53-19-0)		
LD50 oral rat	> 5000 mg/kg	
2,4'-DDE UNLABELED (3424-82-6)		
LD50 oral rat	880 mg/kg	
ATE US (oral)	880 mg/kg body weight	
4,4'-DDD UNLABELED (72-54-8)		
LD50 oral	> 5000 mg/kg - Hamster	
LD50 dermal	1200 mg/kg - Rabbit. Remarks: Behavioral:Excitement. Behavioral:Convulsions or effect on seizure threshold. Skin irritation	
ATE US (oral)	100 mg/kg body weight	
ATE US (dermal)	1100 mg/kg body weight	
BETA-BHC UNLABELED (319-85-7)		
LD50 oral rat	6000 mg/kg	
ATE US (oral)	100 mg/kg body weight	
ATE US (dermal)	1100 mg/kg body weight	

### Safety Data Sheet

LDSO oral rat     457 mg/kg       ATE US (oral)     457 mg/kg body waight       KEPORE (CHLORDECONE) UNLABELED (143-50-0)     1050 oral rat       DSO oral rat     91.3 mg/kg       DSO oral rat     91.3 mg/kg body waight       ATE US (dermal)     345 mg/kg body waight       ATE US (dermal)     0.5 mg/kg body waight       ATE US (dermal)     100 org/kg body waight       ATE US (dermal)     100 org/kg body waight       ATE US (dermal)     0.5 mg/kg body waight       ATE US (dermal)     0.05 mg/kg body waight       ATE US (dermal)     0.05 mg/kg body waight       ATE US (dermal)     0.005 mg/kdh       ATE US (dermal)     0.005 mg/kdh       ATE US (dermal)     100 mg/kg body waight       ATE US (dermal)     100 mg/kg body waight       ATE US (dermal)     100 mg/kg body waight       ATE US (sease)     4500 ppm/l/4h       ATE US (dermal)     100 mg/kg body waight       ATE US (dermal)     2.5 mg/kg       DSO oral rat     7 mg/kg       LDSO	OXYCHLORDANE UNLABELED (27304-13-8)		
KEPONE (CHLORDECONE) UNLABELED (143-50-0)           LD50 oral rat         91.3 mg/kg           LD50 dermal rabbit         345 mg/kg           ATE US (oral)         91.3 mg/kg body weight           ATE US (oral)         91.3 mg/kg body weight           ATE US (oral)         345 mg/kg body weight           ATE US (oral)         0.5 mg/kg body weight           ATE US (dermal)         100 mg/kg body weight           ATE US (dermal)         100 mg/kg body weight           ATE US (dermal)         0.05 mg/k4h           ATE US (dermal)         100 mg/kg body weight           ATE US (dermal)         100 mg/kg body weight           ATE US (dermal)         1100 mg/kg body weight           ATE US (dermal)         11 mg/k4h           TE US (dermal)         11 mg/k4h           DSO dermal rat         7 mg/kg           LD50 dermal rat         23 mg/kg body weight           ATE US (dermal)         0.5 mg/kg body weight           ATE US (dermal)         0.5 mg/kg body weight           ATE US (deremal)         23 mg/kg body weight		457 mg/kg	
LD50 oral rat         91.3 mg/kg           LD50 dermal rabbit         345 mg/kg           ATE US (oral)         91.3 mg/kg body weight           ATE US (oral)         345 mg/kg body weight           ATE US (dermal)         345 mg/kg body weight           ATE US (dermal)         0.5 mg/kg body weight           ATE US (aral)         0.5 mg/kg body weight           ATE US (gases)         100 mg/kg body weight           ATE US (gases)         0.005 mg/k4h           ATE US (dust, mist)         0.005 mg/k4h           ATE US (dust, mist)         0.005 mg/k4h           ATE US (dust, mist)         0.000 mg/kg body weight           ATE US (dust, mist)         0.000 mg/kg body weight           ATE US (dust, mist)         100 mg/kg body weight           ATE US (dust, mist)         100 mg/kg body weight           ATE US (dust, mist)         100 mg/kg body weight           ATE US (dust, mist)         1.5 mg/k4h           ID50 oral rat         7 mg/kg           ID50 oral rat         7 mg/kg           ID50 oral rat         7 mg/kg           ATE US (dust, mist)         0.5 mg/kg body weight           ATE US (dust, mist)         0.5 mg/kg body weight           ATE US (dust, mist)         0.5 mg/kg body weight           <	ATE US (oral)	457 mg/kg body weight	
LD50 dermal rabbit         245 mg/kg           ATE US (oral)         91.3 mg/kg body weight           ATE US (dermal)         345 mg/kg body weight           ENDOSULFAN I UNLABELED (959-96-9)            ATE US (oral)         0.5 mg/kg body weight           ATE US (oral)         0.5 mg/kg body weight           ATE US (ademal)         1100 mg/kg body weight           ATE US (ademal)         0.05 mg/k4h           ATE US (dust, mist)         0.05 mg/k4h           ATE US (adust, mist)         0.05 mg/k4h           ATE US (adust, mist)         0.05 mg/k4h           ATE US (adust, mist)         0.00 mg/kg body weight           ATE US (adust, mist)         100 mg/kg body weight           ATE US (adust, mist)         100 mg/kg body weight           ATE US (adust, mist)         1100 mg/kg body weight           ATE US (adust, mist)         1.5 mg/k4h           ISODRIN (CHEMICAL PURITY 95%) (13C12, 9%) (465-73-6 (Unlabeled))         1100           LD50 doral rat         2 mg/kg body weight           ATE US (adust, mist)         1.5 mg/kg body weight           ATE US (oral)         0.5 mg/kg body weight           ATE US (oral)         2 mg/kg body weight           ATE US (oral)         0.5 mg/kg body weight           ATE US (oral)	KEPONE (CHLORDECONE) UNLABELED (143	3-50-0)	
ATE US (oral)     91.3 mg/kg body weight       ATE US (dermal)     345 mg/kg body weight       ENDOSULFAN I UNLABELED (959-98-8)        ATE US (oral)     0.5 mg/kg body weight       ATE US (oral)     0.5 mg/kg body weight       ATE US (dermal)     1100 mg/kg body weight       ATE US (dermal)     100 pmV/4h       ATE US (usa, mist)     0.05 mg/4h       LINDANE (13CE, 99%) (58-89-9 (Unlabeled))     0.05 mg/4h       ATE US (usa, mist)     0.05 mg/kg body weight       ATE US (oral)     100 mg/kg body weight       ATE US (usa, mist)     100 mg/kg body weight       ATE US (usa, mist)     100 mg/kg body weight       ATE US (usa, mist)     1100 mg/kg body weight       ATE US (usa, mist)     100 mg/kg body weight       ATE US (usa, mist)     11 mg/k4h       ATE US (usa, mist)     1.5 mg/k4h       IE US (vapors)     11 mg/k4h       IE US (vapors)     1.5 mg/kg       LD50 oral a1     7 mg/kg       LD50 oral a1     23 mg/kg body weight       ATE US (usa, mist)     0.5 mg/kg body weight       ATE US (usa, mist) </td <td>LD50 oral rat</td> <td>91.3 mg/kg</td>	LD50 oral rat	91.3 mg/kg	
ATE US (dermal)     345 mg/kg body weight       ENDOSULFAN I UNLABELED (959-98-8)     0.5 mg/kg body weight       ATE US (oral)     0.5 mg/kg body weight       ATE US (dermal)     1100 mg/kg body weight       ATE US (gases)     10 ppm//4h       ATE US (sayes)     0.65 mg/l4h       ATE US (vapors)     0.65 mg/l4h       ATE US (vapors)     0.05 mg/l4h       ATE US (vapors)     0.05 mg/l4h       ATE US (oral)     100 mg/kg body weight       ATE US (oral)     100 mg/kg body weight       ATE US (dermal)     1100 mg/kg body weight       ATE US (dermal)     100 mg/kg body weight       ATE US (dermal)     15 mg/kdh       ISODRIN (CHEMICAL PURITY 95%) (13C12, 95%) (465-73-6 (Unlabeled))       LD50 val rat     2 mg/kg       ATE US (oral)     0.5 mg/kg body weight       ATE US (dermal)     2.5 mg/kg       ATE US (dermal)     2.5 mg/kg       ATE US (dermal)     2.5 mg/kg       ATE US (dermal)     0.5 mg/kg       ATE US (dermal)     0.5 mg/kg       ATE US (dermal)     0.5 mg/kg       ATE US (dermal)	LD50 dermal rabbit	345 mg/kg	
ENDOSULFAN I UNLABELED (959-98-8)           ATE US (oral)         0.5 mg/kg body weight           ATE US (dermal)         1100 mg/kg body weight           ATE US (qases)         10 ppmV/4n           ATE US (dust, mist)         0.05 mg/k4h           ATE US (dust, mist)         0.005 mg/k4h           LINDANE (13C6, 99%) (58-89-9 (Unlabeled))            ATE US (oral)         0.00 mg/kg body weight           ATE US (dust, mist)         0.00 mg/kg body weight           ATE US (dermal)         1100 mg/kg body weight           ATE US (dermal)         15 mg/kh           ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))            LD50 oral rat         7 mg/kg           LD50 dermal rat         23 mg/kg           ATE US (dust, mist)         0.5 mg/kg body weight           ATE US (dust, mist)         0.05 mg/kdh           ATE US (dust, mist)         0.05 mg/kg body weight           ATE US (dust, mist)         0.05 mg/kg body weight </td <td>ATE US (oral)</td> <td>91.3 mg/kg body weight</td>	ATE US (oral)	91.3 mg/kg body weight	
ATE US (oral)0.5 mg/kg body weightATE US (dermal)1100 mg/kg body weightATE US (qases)10 ppmV/4hATE US (vapors)0.05 mg/k4hATE US (dust, mist)0.006 mg/k4hATE US (dust, mist)0.006 mg/k4hLINDANE (13C6, 99%) (58-89-9 (Unlabeled))ATE US (oral)100 mg/kg body weightATE US (dermal)1100 mg/kg body weightATE US (dermal)11 mg/khATE US (dust, mist)1.5 mg/k4hISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))UD50 oral rat7 mg/kgLD50 oral rat23 mg/kg body weightATE US (oral)0.5 mg/kg body weightATE US (qapors)0.05 mg/kg body weightATE US (oral)0.5 mg/kg body weightATE US (oral)0.05 mg/kg body weightATE US (oral)0.05 mg/kg body weightATE US (qapors)0.05 mg/khATE US (qapors)0.05 mg/khATE US (vapors)0.05 mg/khATE US (vapors)0.05 mg/khATE US (vapors)0.05 mg/khATE US (oral)880 mg/kg body weightATE US (oral)240 mg/kg body weightATE US (oral)240 mg/kgATE US (oral)240 mg/kgSkin corrosion/irritation: Causes skin irritation.Skin corrosion/irritation: Not classified	ATE US (dermal)	345 mg/kg body weight	
ATE US (dermal)1100 mg/kg body weightATE US (gases)10 pmV/4hATE US (vapors)0.05 mg//4hATE US (dust, mist)0.005 mg//4h <b>LINDANE (13C6, 99%) (58-89-9 (Unlabeled))</b> ATE US (oral)100 mg/kg body weightATE US (dermal)100 mg/kg body weightATE US (dermal)100 mg/kg body weightATE US (dermal)100 mg/kg body weightATE US (dermal)1100 mg/kg body weightATE US (dermal)110 mg/kg body weightATE US (dermal)1.5 mg//4hATE US (vapors)11 mg//4hATE US (dust, mist)1.5 mg//4hISODRIN (CHEMICAL PURITY 95%) (13C12, 9%) (465-73-6 (Unlabeled))LD50 oral rat2 mg/kgATE US (oral)0.5 mg/kg body weightATE US (oral)0.05 mg//4hATE US (oral)0.05 mg//4hATE US (vapors)0.05 mg//4hATE US (vapors)0.05 mg//4hATE US (vapors)0.05 mg//4hATE US (oral)800 mg/kgATE US (oral)800 mg/kgATE US (oral)800 mg/kgATE US (oral)240 mg/kgATE US (oral)240 mg/kg body weightSkin corrosion/irritationCauses skin irritation.Skin corrosion/irritationCauses skin irritation.Skin corrosion/irritationN to classified	ENDOSULFAN I UNLABELED (959-98-8)		
ATE US (gases)10 ppmV/4hATE US (vapors)0.05 mg/l/4hATE US (dust, mist)0.005 mg/l/4hLINDANE (13C6, 99%) (58-89-9 (Unlabeled))ATE US (oral)100 mg/kg body weightATE US (oral)100 mg/kg body weightATE US (desmai)1100 mg/kg body weightATE US (gases)4500 ppmV/4hATE US (vapors)11 mg/l/4hATE US (dust, mist)1.5 mg/l/4hISODRIN (CHEMICAL PURITY 95%) (13C12, 95%) (465-73-6 (Unlabeled))LD50 oral rat7 mg/kgLD50 oral rat23 mg/kg body weightATE US (dermal)0.5 mg/lkg body weightATE US (dermal)23 mg/kg body weightATE US (dermal)23 mg/kg body weightATE US (dermal)23 mg/kg body weightATE US (dermal)0.5 mg/l/4hATE US (desmal)0.05 mg/l/4hATE US (desmal)0.05 mg/l/4hATE US (vapors)0.05 mg/l/4hATE US (vapors)0.05 mg/l/4hATE US (vapors)0.05 mg/l/4hATE US (vapors)0.05 mg/l/4hATE US (oral)880 mg/kgATE US (oral)880 mg/kg body weightENDOSULFAN II UNLABELED (3213-65-9)LD50 oral ratLD50 oral rat240 mg/kg body weightATE US (oral)240 mg/kg body weightSkin corrosion/irritation: Causes skin irritation.Skin corrosion/irritation: Causes skin irritation.	ATE US (oral)	0.5 mg/kg body weight	
ATE US (vapors)0.05 mg/l/4hATE US (dust, mist)0.005 mg/l/4hLINDANE (13C6, 99%) (58-89-9 (Unlabeled))ATE US (oral)100 mg/kg body weightATE US (oral)100 mg/kg body weightATE US (dermal)1100 mg/kg body weightATE US (dermal)1100 mg/kg body weightATE US (vapors)11 mg/l/4hATE US (dust, mist)1.5 mg/l/4hISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))LD50 oral rat7 mg/kgLD50 oral rat23 mg/kg body weightATE US (vapors)0.5 mg/kg body weightATE US (vapors)0.5 mg/kg body weightATE US (vapors)0.5 mg/kg body weightATE US (oral)0.5 mg/kg body weightATE US (vapors)0.05 mg/l/4hATE US (oral)880 mg/kgATE US (oral)880 mg/kgATE US (oral)240 mg/kg body weightENDOSULFAN II UNLABELED (3213-65-9)LD50 oral rat240 mg/kg body weightATE US (oral)240 mg/kg body weightSkin corrosion/irritation: Causes skin irritation.Skin corrosion/irritation: Not classified	ATE US (dermal)	1100 mg/kg body weight	
ATE US (dust, mist)         0.005 mgl/4h           LINDANE (13C6, 99%) (58-89-9 (Unlabeled))         100 mg/kg body weight           ATE US (oral)         100 mg/kg body weight           ATE US (dermal)         1100 mg/kg body weight           ATE US (dermal)         1100 mg/kg body weight           ATE US (gases)         4500 ppmV/4h           ATE US (dust, mist)         11 mg/l4h           ATE US (dust, mist)         1.5 mgl/4h           ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))         100 mg/kg body weight           LD50 oral rat         7 mg/kg           LD50 oral rat         23 mg/kg body weight           ATE US (oral)         0.5 mg/kg body weight           ATE US (dust, mist)         0.05 mgl/kh           ATE US (oral)         880 mg/kg           ATE US (oral)         880 mg/kg body weight           ENDOSULFAN II UNLABELED (33213-65-9)	ATE US (gases)	10 ppmV/4h	
LINDANE (13C6, 99%) (58-89-9 (Unlabeled))           ATE US (oral)         100 mg/kg body weight           ATE US (oral)         1100 mg/kg body weight           ATE US (demal)         1100 mg/kg body weight           ATE US (gases)         4500 ppmV/4h           ATE US (vapors)         11 mg/l/4h           ATE US (dust, mist)         1.5 mg/l/4h           ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))         1000 mg/kg body weight           LD50 oral rat         7 mg/kg           LD50 oral rat         23 mg/kg body weight           ATE US (oral)         0.5 mg/kg body weight           ATE US (oral)         0.5 mg/kg body weight           ATE US (oral)         0.5 mg/kg body weight           ATE US (oral)         0.05 mg/k/4h           ATE US (dust, mist)         0.05 mg/k/4h           ATE US (dust, mist)         0.05 mg/k/4h           ATE US (dust, mist)         0.05 mg/kg           ATE US (dust, mist)         0.05 mg/kg           LD50 oral rat         880 mg/kg           ATE US (oral)         880 mg/kg body weight           ATE US (oral)         880 mg/kg body weight           ATE US (oral)         880 mg/kg body weight           ENDOSULFAN II UNLABELED (33213-65-9)         LD50 oral rat	ATE US (vapors)	0.05 mg/l/4h	
ATE US (oral)100 mg/kg body weightATE US (dermal)1100 mg/kg body weightATE US (gases)4500 ppmV/4hATE US (vapors)11 mg//4hATE US (dust, mist)1.5 mg/l/4hISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))LD50 oral rat7 mg/kgLD50 dermal rat23 mg/kgATE US (oral)0.5 mg/kg body weightATE US (dermal)23 mg/kg body weightATE US (dermal)23 mg/kg body weightATE US (dermal)0.5 mg/kg body weightATE US (dermal)0.05 mg/l/4hATE US (dermal)0.005 mg/l/4hATE US (data, mist)0.005 mg/l/4hATE US (vapors)0.05 mg/l/4hATE US (vapors)0.05 mg/l/4hATE US (vapors)0.05 mg/l/4hATE US (val)880 mg/kgATE US (oral)880 mg/kgATE US (oral)240 mg/kg body weightATE US (oral)240 mg/kgENDOSULFAN II UNLABELED (33213-65-9)LD50 oral rat240 mg/kgATE US (oral)240 mg/kg body weightSkin corrosion/irritation: Causes skin irritation.Serious eye damage/irritation: Not classified	ATE US (dust, mist)	0.005 mg/l/4h	
ATE US (dermal)1100 mg/kg body weightATE US (gases)4500 ppmV/4hATE US (vapors)11 mg//4hATE US (dust, mist)1.5 mg//4hISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))LD50 oral rat7 mg/kgLD50 dermal rat23 mg/kgATE US (oral)0.5 mg/kg body weightATE US (dermal)23 mg/kg body weightATE US (dermal)23 mg/kg body weightATE US (dermal)0.05 mg//4hATE US (dermal)0.05 mg//4hATE US (dermal)0.05 mg//4hATE US (dermal)0.05 mg//4hATE US (vapors)0.05 mg//4hATE US (vapors)0.05 mg//4hATE US (dust, mist)0.005 mg//4hATE US (vapors)0.05 mg//4hATE US (oral)880 mg/kgATE US (oral)240 mg/kg body weightATE US (oral)240 mg/kg body weightSkin corrosion/irritation240 mg/kg body weightSkin corrosion/irritationCauses skin irritation.Serious eye damage/irritationNot classified	LINDANE (13C6, 99%) (58-89-9 (Unlabeled))		
ATE US (gases)4500 ppmV/4hATE US (vapors)11 mg//4hATE US (dust, mist)1.5 mg//4hISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))LD50 oral rat7 mg/kgLD50 oral rat23 mg/kgATE US (oral)0.5 mg/kg body weightATE US (oral)0.5 mg/kg body weightATE US (dermal)23 mg/kg body weightATE US (dermal)23 mg/kg body weightATE US (dermal)0.05 mg/l/4hATE US (qases)10 ppmV/4hATE US (vapors)0.05 mg/l/4hATE US (vapors)0.05 mg/l/4hATE US (vapors)0.05 mg/l/4hATE US (oral)880 mg/kgATE US (oral)880 mg/kgATE US (oral)240 mg/kgATE US (oral)240 mg/kg body weightENDOSULFAN II UNLABELED (32213-65-9)240 mg/kg body weightSkin corrosion/irritation240 mg/kg body weightSkin corrosion/irritationCauses skin irritation.Serious eye damage/irritationKin corrosion/irritation	ATE US (oral)	100 mg/kg body weight	
ATE US (vapors)       11 mg//4h         ATE US (dust, mist)       1.5 mg//4h         ISODRIN (CHEMICAL PURITY 95%) (13C12, 9%) (465-73-6 (Unlabeled))       ISODRIN (CHEMICAL PURITY 95%) (13C12, 9%) (465-73-6 (Unlabeled))         LD50 oral rat       7 mg/kg         LD50 oral rat       7 mg/kg         LD50 dermal rat       23 mg/kg         ATE US (oral)       0.5 mg/kg body weight         ATE US (dermal)       23 mg/kg body weight         ATE US (dermal)       0.05 mg/l/4h         ATE US (gases)       10 ppmV/4h         ATE US (vapors)       0.05 mg/l/4h         ATE US (dust, mist)       0.005 mg/l/4h         ATE US (oral)       880 mg/kg         ATE US (oral)       880 mg/kg         ATE US (oral)       880 mg/kg         ATE US (oral)       240 mg/kg         D50 oral rat       240 mg/kg body weight         ENDOSULFAN II UNLABELED (32213-65-9)       LD50 oral rat         LD50 oral rat       240 mg/kg         ATE US (oral)       240 mg/kg         ATE US (oral)       240 mg/kg body weight	ATE US (dermal)	1100 mg/kg body weight	
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ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))         LD50 oral rat       7 mg/kg         LD50 dermal rat       23 mg/kg         ATE US (oral)       0.5 mg/kg body weight         ATE US (dermal)       23 mg/kg body weight         ATE US (dermal)       23 mg/kg body weight         ATE US (dermal)       23 mg/kg body weight         ATE US (dermal)       0.5 mg/kg body weight         ATE US (dermal)       0.05 mg/l/4h         ATE US (vapors)       0.05 mg/l/4h         ATE US (dust, mist)       0.005 mg/l/4h         4.4'-DDE UNLABELED (72-55-9)       E         LD50 oral rat       880 mg/kg         ATE US (oral)       880 mg/kg body weight         ENDOSULFAN II UNLABELED (33213-65-9)       E         LD50 oral rat       240 mg/kg         ATE US (oral)       240 mg/kg body weight         Skin corrosion/irritation       : Causes skin irritation.         Skin corrosion/irritation       : Not classified	ATE US (vapors)	11 mg/l/4h	
LD50 oral rat7 mg/kgLD50 dermal rat23 mg/kgATE US (oral)0.5 mg/kg body weightATE US (dermal)23 mg/kg body weightATE US (dermal)23 mg/kg body weightATE US (gases)10 ppmV/4hATE US (vapors)0.05 mg/l/4hATE US (dust, mist)0.005 mg/l/4h <b>4,4'-DDE UNLABELED (72-55-9)</b> LD50 oral rat880 mg/kgATE US (oral)880 mg/kg body weightENDOSULFAN II UNLABELED (33213-65-9)LD50 oral rat240 mg/kgATE US (oral)240 mg/kgSkin corrosion/irritation: Causes skin irritation.Serious eye damage/irritation: Not classified	ATE US (dust, mist)	1.5 mg/l/4h	
LD50 dermal rat23 mg/kgATE US (oral)0.5 mg/kg body weightATE US (dermal)23 mg/kg body weightATE US (dermal)23 mg/kg body weightATE US (gases)10 ppmV/4hATE US (vapors)0.05 mg/l/4hATE US (dust, mist)0.005 mg/l/4h <b>4,4'-DDE UNLABELED (72-55-9)</b> 880 mg/kgLD50 oral rat880 mg/kgATE US (oral)880 mg/kg body weightENDOSULFAN II UNLABELED (33213-65-9)240 mg/kgLD50 oral rat240 mg/kgATE US (oral)240 mg/kg body weightEndosult rat240 mg/kg body weightSkin corrosion/irritation: Causes skin irritation.Serious eye damage/irritation: Not classified	ISODRIN (CHEMICAL PURITY 95%) (13C12, 9	9%) (465-73-6 (Unlabeled))	
ATE US (oral)0.5 mg/kg body weightATE US (dermal)23 mg/kg body weightATE US (gases)10 ppmV/4hATE US (vapors)0.05 mg/l/4hATE US (dust, mist)0.005 mg/l/4h <b>4,4'-DDE UNLABELED (72-55-9)</b> LD50 oral rat880 mg/kgATE US (oral)880 mg/kg body weightENDOSULFAN II UNLABELED (33213-65-9)LD50 oral rat240 mg/kgATE US (oral)240 mg/kgSkin corrosion/irritation: Causes skin irritation.Serious eye damage/irritation: Not classified	LD50 oral rat	7 mg/kg	
ATE US (dermal)23 mg/kg body weightATE US (gases)10 pmV/4hATE US (vapors)0.05 mg/l/4hATE US (dust, mist)0.005 mg/l/4h4,4'-DDE UNLABELED (72-55-9)LD50 oral rat880 mg/kgATE US (oral)880 mg/kg body weightENDOSULFAN II UNLABELED (33213-65-9)LD50 oral rat240 mg/kgATE US (oral)240 mg/kg body weightSkin corrosion/irritation: Causes skin irritation.Serious eye damage/irritation: Not classified	LD50 dermal rat	23 mg/kg	
ATE US (gases)10 ppmV/4hATE US (vapors)0.05 mg/l/4hATE US (dust, mist)0.005 mg/l/4h4,4'-DDE UNLABELED (72-55-9)880 mg/kgLD50 oral rat880 mg/kgATE US (oral)880 mg/kg body weightENDOSULFAN II UNLABELED (33213-65-9)LD50 oral rat240 mg/kgATE US (oral)240 mg/kgSkin corrosion/irritation: Causes skin irritation.Serious eye damage/irritation: Not classified	ATE US (oral)	0.5 mg/kg body weight	
ATE US (vapors)       0.05 mg/l/4h         ATE US (dust, mist)       0.005 mg/l/4h         4,4'-DDE UNLABELED (72-55-9)       1000000000000000000000000000000000000	ATE US (dermal)	23 mg/kg body weight	
ATE US (dust, mist)       0.005 mg/l/4h         4,4'-DDE UNLABELED (72-55-9)       4.4'-DDE UNLABELED (72-55-9)         LD50 oral rat       880 mg/kg         ATE US (oral)       880 mg/kg body weight         ENDOSULFAN II UNLABELED (33213-65-9)       240 mg/kg         LD50 oral rat       240 mg/kg         ATE US (oral)       240 mg/kg         Skin corrosion/irritation       : Causes skin irritation.         Serious eye damage/irritation       : Not classified	ATE US (gases)	10 ppmV/4h	
4,4'-DDE UNLABELED (72-55-9)         LD50 oral rat       880 mg/kg         ATE US (oral)       880 mg/kg body weight         ENDOSULFAN II UNLABELED (33213-65-9)         LD50 oral rat       240 mg/kg         ATE US (oral)       240 mg/kg         Skin corrosion/irritation       : Causes skin irritation.         Serious eye damage/irritation       : Not classified	ATE US (vapors)	0.05 mg/l/4h	
LD50 oral rat880 mg/kgATE US (oral)880 mg/kg body weightENDOSULFAN II UNLABELED (33213-65-9)LD50 oral rat240 mg/kgATE US (oral)240 mg/kg body weightSkin corrosion/irritation: Causes skin irritation.Serious eye damage/irritation: Not classified	ATE US (dust, mist)	0.005 mg/l/4h	
ATE US (oral)       880 mg/kg body weight         ENDOSULFAN II UNLABELED (33213-65-9)         LD50 oral rat       240 mg/kg         ATE US (oral)       240 mg/kg body weight         Skin corrosion/irritation       : Causes skin irritation.         Serious eye damage/irritation       : Not classified	4,4'-DDE UNLABELED (72-55-9)		
ENDOSULFAN II UNLABELED (33213-65-9)         LD50 oral rat       240 mg/kg         ATE US (oral)       240 mg/kg body weight         Skin corrosion/irritation       : Causes skin irritation.         Serious eye damage/irritation       : Not classified	LD50 oral rat	880 mg/kg	
LD50 oral rat       240 mg/kg         ATE US (oral)       240 mg/kg body weight         Skin corrosion/irritation       : Causes skin irritation.         Serious eye damage/irritation       : Not classified	ATE US (oral)	880 mg/kg body weight	
ATE US (oral)       240 mg/kg body weight         Skin corrosion/irritation       : Causes skin irritation.         Serious eye damage/irritation       : Not classified	ENDOSULFAN II UNLABELED (33213-65-9)		
Skin corrosion/irritation       : Causes skin irritation.         Serious eye damage/irritation       : Not classified	LD50 oral rat	240 mg/kg	
Serious eye damage/irritation : Not classified	ATE US (oral)	240 mg/kg body weight	

### Safety Data Sheet

	Not classified Not classified		
HEXACHLOROBENZENE (13C6, 99%) (118-74			
IARC group	2B - Possibly carcinogenic to humans		
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen		
HEXACHLOROBENZENE UNLABELED (118-74	4-1)		
IARC group	2B - Possibly carcinogenic to humans		
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen		
ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))			
IARC group	3 - Not classifiable		
ALDRIN UNLABELED (309-00-2)			
IARC group	2A - Probably carcinogenic to humans		
DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabeled	d))		
IARC group	3 - Not classifiable		
4,4'-DDT (RING-13C12, 99%) (50-29-3)			
IARC group	2A - Probably carcinogenic to humans		
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen		
ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))			
IARC group	3 - Not classifiable		
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	(5103-74-2 (Unlabeled))		
IARC group	2B - Possibly carcinogenic to humans		
2,4'-DDD (RING-13C12, 99%) (53-19-0 (Unlabel	led))		
IARC group	2B - Possibly carcinogenic to humans		
2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlat	peled))		
IARC group	2B - Possibly carcinogenic to humans		
DIELDRIN UNLABELED (60-57-1)			
IARC group	2A - Probably carcinogenic to humans		
ENDRIN UNLABELED (72-20-8)	ENDRIN UNLABELED (72-20-8)		
IARC group	3 - Not classifiable		
4,4'-DDT UNLABELED (50-29-3)			
IARC group	2A - Probably carcinogenic to humans		
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen		
DELTA-BHC (13C6, 99%) (319-86-8 (Unlabeled))			
IARC group	2B - Possibly carcinogenic to humans		
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen		

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MIREX (13C10, 98%) (2385-85-5 (Unlabeled))		
IARC group	2B - Possibly carcinogenic to humans	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled)	))	
IARC group	2B - Possibly carcinogenic to humans	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (10	)24-57-3 (Unlabeled))	
IARC group	2B - Possibly carcinogenic to humans	
HEPTACHLOR (13C10, 99%) (76-44-8 (Unlabel	led))	
IARC group	2B - Possibly carcinogenic to humans	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
KEPONE (CHLORDECONE) (13C10, 99%) (14	3-50-0 (Unlabeled))	
IARC group	2B - Possibly carcinogenic to humans	
ALPHA-HCH (ALPHA-BHC) (13C6, 99%) (319-84-6)		
IARC group	2B - Possibly carcinogenic to humans	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
LINDANE UNLABELED (58-89-9)		
IARC group	1 - Carcinogenic to humans	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
2,3',4',5-TETRACB (PCB-70) (13C12, 99%) (20	8263-81-4)	
IARC group	2A - Probably carcinogenic to humans	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
MIREX UNLABELED (2385-85-5)		
IARC group	2B - Possibly carcinogenic to humans	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
ALPHA-BHC UNLABELED (319-84-6)		
IARC group	2B - Possibly carcinogenic to humans	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
DELTA-BHC UNLABELED (319-86-8)		
IARC group	2B - Possibly carcinogenic to humans	
HEPTACHLOR UNLABELED (76-44-8)		
IARC group	2B - Possibly carcinogenic to humans	
National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen	
CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)		
IARC group	2B - Possibly carcinogenic to humans	

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CIS-HEPTACHLOR EPOXIDE UNLABELED (122-57-3)       IARC group     2R-Possibly carcinogenic to humans       TRANS-CHLORDANE (GAMMA) UNLABELED (310-9)     2B - Possibly carcinogenic to humans       2,4-DDD UNLABELED (31-9-0)     2B - Possibly carcinogenic to humans       2,4-DDD UNLABELED (3424-82-6)     2B - Possibly carcinogenic to humans       2,4-DDD UNLABELED (3424-82-6)     2B - Possibly carcinogenic to humans       2,4-DDD UNLABELED (72-54-8)     2B - Possibly carcinogenic to humans       1ARC group     2B - Possibly carcinogenic to humans       2,4-DDD UNLABELED (72-54-8)     2A - Probably carcinogenic to humans       1ARC group     2A - Possibly carcinogenic to humans       2,4-DDD UNLABELED (72-54-8)     2B - Possibly carcinogenic to humans       1ARC group     2B - Possibly carc		
TRANS-CHLORDANE (GAMMA) UNLABELED (5103-74-2)           IARC group         2B - Possibly carcinogenic to humans           2,4'-DDD UNLABELED (53-19-0)         IARC group           2,4'-DDD UNLABELED (5424-82-6)         IARC group           2,4'-DDD UNLABELED (424-82-6)         IARC group           2,4'-DDD UNLABELED (72-54-8)         IARC group           IARC group         2A - Posabby carcinogenic to humans           BETA-BHC UNLABELED (31-9-57)         IARC group           IARC group         2B - Possibly carcinogenic to humans           BETA-BHC UNLABELED (31-9-57)         Reasonaby anticipated to be Human Carcinogen           IARC group         2B - Possibly carcinogenic to humans           National Toxicology Program (NTP) Status         Reasonaby anticipated to be Human Carcinogen           IARC group         2B - Possibly carcinogenic to humans           IARC group         2B - Possibly carcinogenic to humans           IARC group         2B - Possibly carcinogenic to humans           National Toxicology Program (NTP) Status         Reasonaby anticipated to be Human Carcinogen           ISODRIN (CHEMICAL PURITY 95%) (13C12, 95%) (45C3-36 (Unlabeled))         No component of this product present at levels greater than or equal to 0.1 % is identified as a know or anticipated carcinogen by NTP.           Stor-single exposure         No case damage to organs (liver) (Dermal, Inhalation, oral).	CIS-HEPTACHLOR EPOXIDE UNLABELED (10	024-57-3)
IARC group         2B - Possibly carcinogenic to humans           2,4-DDD UNLABELED (53-19-0)         IARC group         2B - Possibly carcinogenic to humans           2,4-DDD UNLABELED (3424-82-6)         2B - Possibly carcinogenic to humans           2,4-DDD UNLABELED (12-54-8)         2B - Possibly carcinogenic to humans           1ARC group         2A - Probably carcinogenic to humans           BETA-BHC UNLABELED (319-85-7)         IARC group         2B - Possibly carcinogenic to humans           BETA-BHC UNLABELED (319-85-7)         IARC group         2B - Possibly carcinogenic to humans           National Toxicology Program (NTP) Status         Reasonably anticipated to be Human Carcinogen           IARC group         2B - Possibly carcinogenic to humans           National Toxicology Program (NTP) Status         Reasonably anticipated to be Human Carcinogen           ISOORIN (CHEMICAL PURITY 95%) (13C12, 9%) (465-73-6 (Unlabeled))         No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated darcinogen by NTP.           Not component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated darcinogen by NTP.           StorT-single exposure         Not component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.           StorT-single exposure         Not cases damage to organs (liver) (Dermal, Inhalation, oral).	IARC group	2B - Possibly carcinogenic to humans
24-DDD UNLABELED (53-19-0)         IARC group       28 - Possibly carcinogenic to humans         2.4-DDD UNLABELED (342-82-6)       IARC group         IARC group       28 - Possibly carcinogenic to humans         4.4-DDD UNLABELED (72-54-8)       IARC group         IARC group       28 - Possibly carcinogenic to humans         BETA-BHC UNLABELED (319-85-7)       IARC group         IARC group       28 - Possibly carcinogenic to humans         National Toxicology Program (NTP) Status       Reasonably anticipated to be Human Carcinogen         KEPONE (CHLORDECONE) UNLABELED (142-50-0)       IARC group         IARC group       28 - Possibly carcinogenic to humans         National Toxicology Program (NTP) Status       Reasonably anticipated to be Human Carcinogen         ISODRIN (CHEMICAL PURITY 95%) (13C12, 9%) (465-73-6 (Unlabeled))       No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated darcinogen by NTP.         Reproductive toxicity       No cause drowsiness or dizziness.         TOT-single exposure       Causes damage to organs (liver) (Dermal, Inhalation, oral).         TRANS-NOACHLOR (13C10, 98%) (39765-60-50)       STOT-single exposure         STOT-single exposure       May cause respiratory irritation.         2.4-DDT (RING-13C12, 99%) (769-02-6 (Unlabeled))       STOT-single exposure         STOT-sin	TRANS-CHLORDANE (GAMMA) UNLABELED	(5103-74-2)
IARC group       28 - Possibly carcinogenic to humans         2.4'-DDE UNLABELED (3424-82-6)       28 - Possibly carcinogenic to humans         4.4'-DDD UNLABELED (72-54-8)       28 - Possibly carcinogenic to humans         BETA-BHC UNLABELED (319-85-7)       28 - Possibly carcinogenic to humans         BETA-BHC UNLABELED (319-85-7)       28 - Possibly carcinogenic to humans         National Toxicology Program (NTP) Status       Reasonably anticipated to be Human Carcinogen         KEPONE (CHLORDECONE) UNLABELED (143-50-0)       10 Reasonably anticipated to be Human Carcinogen         National Toxicology Program (NTP) Status       Reasonably anticipated to be Human Carcinogen         ISODRIN (CHEMICAL PURITY 95%) (13C12, 9%) (465-73-6 (Unlabeled))       No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.         Reproductive toxicity       : Not classified         STOT-single exposure       Kouro anticipated carcinogen by NTP.         REXACHLOROBENZENE UNLABELED (118-74-11)         STOT-single exposure       Causes damage to organs (liver) (Dermal, Inhalation, oral).         TRANS-NONACHLOR (13C10, 98%) (39765-80- UNT-single exposure       May cause respiratory irritation.         2.4'-DDT (RING-13C12, 99%) (769-02-6 (Unlabeled))       STOT-single exposure       Causes damage to organs (liver, pancress) (Dermal, Inhalation, oral).         TATANS-NONACHLOR (13C10, 98%) (39765-80- UNT	IARC group	2B - Possibly carcinogenic to humans
2.4*DDE UNLABELED (3424-82-6)       IARC group     2B - Possibly carcinogenic to humans       4.4*DDD UNLABELED (72-54-8)     IARC group       IARC group     2A - Probably carcinogenic to humans       BETA-BHC UNLABELED (319-85-7)     IARC group       IARC group     2B - Possibly carcinogenic to humans       National Toxicology Program (NTP) Status     Reasonably anticipated to be Human Carcinogen       KEPONE (CHLORDECONE) UNLABELED (143-50-0)     IARC group       IARC group     2B - Possibly carcinogenic to humans       National Toxicology Program (NTP) Status     Reasonably anticipated to be Human Carcinogen       ISODRIN (CHEMICAL PURITY 95%) (13C12, 9%) (465-73-6 (Unlabeled))     IARC group       National Toxicology Program (NTP) Status     Reasonably anticipated carcinogen by NTP.       Reproductive toxicity     : Not classified       STOT-single exposure     : Av cause drowsiness or dizziness.       HEXACHLOROBENZENE UNLABELED (118-74-1)     STOT-single exposure       STOT-single exposure     : Quase dramage to organs (liver) (Dermal. Inhalation, oral).       TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))       STOT-single exposure     Causes damage to organs (liver, pancreas) (Dermal. Inhalation, oral).       TANS-NONACHLOR (13C10, 98%) (280-26 (Unlabeled))       STOT-single exposure     Causes damage to organs (liver, pancreas) (Dermal. Inhalation, oral).       X-4-DDT (NINABELED (50-29-3)	2,4'-DDD UNLABELED (53-19-0)	
IARC group     28 - Possibly carcinogenic to humans       4.4-DDD UNLABELED (72-54-8)     2A - Probably carcinogenic to humans       IARC group     2A - Probably carcinogenic to humans       BETA-BHC UNLABELED (319-85-7)     IARC group       IARC group     2B - Possibly carcinogenic to humans       National Toxicology Program (NTP) Status     Reasonably anticipated to be Human Carcinogen       KEPONE (CHLORDECONE) UNLABELED (14-50-0)     IARC group       IARC group     2B - Possibly carcinogenic to humans       National Toxicology Program (NTP) Status     Reasonably anticipated to be Human Carcinogen       ISODRIN (CHEMICAL PURITY 95%) (13C12, 9%) (465-73-6 (Unlabeled))     No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.       Reproductive toxicity     : Not classified       STOT-single exposure     : Awa cause drowsiness or dizziness.       HEXACHLOROBENZENE UNLABELED (118-74-1)     STOT-single exposure       STOT-single exposure     : Gauses damage to organs (liver) (Dernal, Inhalation, oral).       TRANS-NONACHLOR (13C10, 98%) (789-02-6 (Unlabeled))     STOT-single exposure       STOT-single exposure     : Gauses damage to organs (liver, pancreas) (Dermal, Inhalation, oral).       R4-DDT UNLABELED (50-29-3)     STOT-single exposure       STOT-single exposure     : May cause respiratory irritation.       4.4-DDT UNLABELED (510-84-1)     STOT-single	IARC group	2B - Possibly carcinogenic to humans
4.4-DDD UNLABELED (72-54-8)         IARC group       2A - Probably carcinogenic to humans         BETA-BHC UNLABELED (319-85-7)       Reasonably anticipated to be Human Carcinogen         National Toxicology Program (NTP) Status       Reasonably anticipated to be Human Carcinogen         KEPONE (CHLORDECONE) UNLABELED (14-50-0)       ZB - Possibly carcinogenic to humans         National Toxicology Program (NTP) Status       Reasonably anticipated to be Human Carcinogen         ISODRIN (CHEMICAL PURITY 95%) (13C12, 9%) (465-73-6 (Unlabeled))       No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.         Reproductive toxicity       : Not classified         STOT-single exposure       : May cause drowsiness or dizziness.         HEXACHLOROBENZENE UNLABELED (118-74-74)       Stot classified         STOT-single exposure       : May cause respiratory irritation.         2.4-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))       May cause respiratory irritation.         STOT-single exposure       : Causes damage to organs (liver, Ioernal, Inhalation, oral).         STOT-single exposure       : Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).         STOT-single exposure       : Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).         STOT-single exposure       : Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).	2,4'-DDE UNLABELED (3424-82-6)	
IARC group         2A - Probably carcinogenic to humans           BETA-BHC UNLABELED (319-85-7)         2B - Possibly carcinogenic to humans           National Toxicology Program (NTP) Status         Reasonably anticipated to be Human Carcinogen           KEPONE (CHLORDECONE) UNLABELED (14- Stoop         2B - Possibly carcinogenic to humans           National Toxicology Program (NTP) Status         Reasonably anticipated to be Human Carcinogen           IARC group         2B - Possibly carcinogenic to humans           National Toxicology Program (NTP) Status         Reasonably anticipated to be Human Carcinogen           ISDORIN (CHEMICAL PURITY 95%) (13C12, 9%) (465-73-6 (Unlabeled))         No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.           Reproductive toxicity         Not component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.           STOT-single exposure         Not cases damage to organs (liver) (Dermal, Inhalation, oral).           TARNS-NONACHLOR (13C10, 98%) (39765-5-5 (Unlabeled))         STOT-single exposure           STOT-single exposure         May cause respiratory irritation.           2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled)         Stoopen (liver, pancreas) (Dermal, Inhalation, oral).           STOT-single exposure         May cause drowsiness or dizziness.           STOT-single exposure         May ca	IARC group	2B - Possibly carcinogenic to humans
BETA-BLC UNLABELED (319-85-7)           IARC group         2B - Possibly carcinogenic to humans           National Toxicology Program (NTP) Status         Reasonably anticipated to be Human Carcinogen           KEPONE (CHLORDECONE) UNLABELED (143-50-0)         IARC group         2B - Possibly carcinogenic to humans           National Toxicology Program (NTP) Status         Reasonably anticipated to be Human Carcinogen           ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))         No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.           Reproductive toxicity         : No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.           Reproductive toxicity         : No todassified           STOT-single exposure         : May cause drowsiness or dizziness.           HEXACHLOROBENZENE UNLABELED (118-74-1)         STOT-single exposure           STOT-single exposure         May cause respiratory irritation.           2,4-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))         STOT-single exposure           STOT-single exposure         May cause respiratory irritation.           4,4-DDT UNLABELED (510-29-3)         STOT-single exposure           STOT-single exposure         Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).           N-NONANE UNLABELED (510-84-1)         <	4,4'-DDD UNLABELED (72-54-8)	
IARC group         2B - Possibly carcinogenic to humans           National Toxicology Program (NTP) Status         Reasonably anticipated to be Human Carcinogen           KEPONE (CHLORDECONE) UNLABELED (13-5-0-)         IARC group         2B - Possibly carcinogenic to humans           National Toxicology Program (NTP) Status         Reasonably anticipated to be Human Carcinogen           ISDDRIN (CHEMICAL PURITY 95%) (13C12, 95%) (465-73-6 (Unlabeled))         No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.           Reproductive toxicity         No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.           Reproductive toxicity         No t classified           STOT-single exposure         Gauses damage to organs (liver) (Dermal, Inhalation, oral).           TRANS-NONACHLOR (13C10, 98%) (39765-80-5000)         Ullabeled))           STOT-single exposure         May cause respiratory irritation.           2,4-DDT (RING-13C12, 99%) (789-02-6 (Unl-1000000000000000000000000000000000000	IARC group	2A - Probably carcinogenic to humans
National Toxicology Program (NTP) Status         Reasonably anticipated to be Human Carcinogen           KEPONE         CHLORDECONE) UNLABELED (143-50-)           IARC group         2B - Possibly carcinogenic to humans           National Toxicology Program (NTP) Status         Reasonably anticipated to be Human Carcinogen           ISODRIN         CHEMICAL PURITY 95% (13C12, 99%) (465-73-6 (Unlabeled))           National Toxicology Program (NTP) Status         Reasonably anticipated carcinogen by NTP.           Reproductive toxicity         Not cassified           STOT-single exposure         May cause drowsiness or dizziness.           HEXACHLOROBEZENE UNLABELED (118-74-77)         Stot cassified           STOT-single exposure         Gauses damage to organs (liver) (Dermal, Inhalation, oral).           TRANS-NONACHLOR (13C10, 98%) (39765-80-/// Unlabeled))         May cause respiratory irritation.           STOT-single exposure         May cause respiratory irritation.           2,4-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))         Stot cause damage to organs (liver, pancreas) (Dermal, Inhalation, oral).           STOT-single exposure         May cause respiratory irritation.           4,4-DDT UNLABELED (50-29-3)         May cause respiratory irritation.           STOT-single exposure         May cause drowsiness or dizziness.           STOT-single exposure         May cause drowsiness or dizziness.	BETA-BHC UNLABELED (319-85-7)	
KEPONE (CHLORDECONE) UNLABELED (143-50-0)         IARC group       2B - Possibly carcinogenic to humans         National Toxicology Program (NTP) Status       Reasonably anticipated to be Human Carcinogen         ISODRIN (CHEMICAL PURITY 95%) (13C12, 9%) (465-73-6 (Unlabeled))       No         National Toxicology Program (NTP) Status       Reasonably anticipated arcinogen by NTP.         Reproductive toxicity       No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.         Reproductive toxicity       Not classified         STOT-single exposure       May cause drowsiness or dizziness.         HEXACHLOROBENZENE UNLABELED (118-74-1)       STOT-single exposure         STOT-single exposure       Causes damage to organs (liver) (Dermal, Inhalation, oral).         TRANS-NONACHLOR (13C10, 98%) (39765-85-5 (Unlabeled))       STOT-single exposure         STOT-single exposure       May cause respiratory irritation.         24-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))       STOT-single exposure         STOT-single exposure       May cause drowsiness or dizziness.         4.44-DDT UNLABELED (50-29-3)       STOT-single exposure         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)       STOT-single exposure         STOT-single exposure       May cause drowsiness or dizz	IARC group	2B - Possibly carcinogenic to humans
IARC group     2B - Possibly carcinogenic to humans       National Toxicology Program (NTP) Status     Reasonably anticipated to be Human Carcinogen       ISODRIN (CHEMICAL PURITY 95%) (13C12, 9*) (465-73-6 (Unlabeled))     No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.       Reproductive toxicity     : Not classified       STOT-single exposure     : May cause drowsiness or dizziness.       HEXACHLOROBENZENE UNLABELED (118-74-1)     STOT-single exposure       STOT-single exposure     Causes damage to organs (liver) (Dermal, Inhalation, oral).       TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))     STOT-single exposure       STOT-single exposure     May cause respiratory irritation.       2,4-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))     STOT-single exposure       STOT-single exposure     Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).       4,4-DDT UNLABELED (50-29-3)     STOT-single exposure       STOT-single exposure     Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).       N-NONANE UNLABELED (111-84-2)     STOT-single exposure       STOT-single exposure     May cause drowsiness or dizziness.       IBOOCTANE UNLABELED (540-84-1)     STOT-single exposure       STOT-single exposure     May cause drowsiness or dizziness.       ISOOCTANE UNLABELED (540-84-1)     STOT-single exposure	National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
National Toxicology Program (NTP) Status         Reasonably anticipated to be Human Carcinogen           ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))         No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.           Reproductive toxicity         : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.           Reproductive toxicity         : No t classified           STOT-single exposure         : May cause drowsiness or dizziness.           HEXACHLOROBENZENE UNLABELED (118-74-71)         STOT-single exposure           STOT-single exposure         Causes damage to organs (liver) (Dermal, Inhalation, oral).           TRANS-NONACHLOR (13C10, 98%) (39765-80-5000000000000000000000000000000000	KEPONE (CHLORDECONE) UNLABELED (143-50-0)	
ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))         National Toxicology Program (NTP) Status       No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.         Reproductive toxicity       : Not classified         STOT-single exposure       : May cause drowsiness or dizziness.         HEXACHLOROBENZENE UNLABELED (118-74-1)       STOT-single exposure         STOT-single exposure       Causes damage to organs (liver) (Dermal, Inhalation, oral).         TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))       STOT-single exposure         May cause respiratory irritation.       2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))         STOT-single exposure       May cause respiratory irritation.         4,4'-DDT UNLABELED (50-29-3)       STOT-single exposure         STOT-single exposure       Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).         N-NONANE UNLABELED (111-84-2)       STOT-single exposure         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)       May cause drowsiness or dizziness.         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)       May cause drowsiness or dizziness.         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE	IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status       No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP.         Reproductive toxicity       : Not classified         STOT-single exposure       : May cause drowsiness or dizziness.         HEXACHLOROBENZENE UNLABELED (118-74-1)       Stot classified         STOT-single exposure       Causes damage to organs (liver) (Dermal, Inhalation, oral).         TRANS-NONACHLOR (13C10, 98%) (39765-86-5 (Unlabeled))       StotT-single exposure         STOT-single exposure       May cause respiratory irritation.         2,4'-DDT (RING-13C12, 99%) (789-02-6 (Ultabeled))       StotT-single exposure         STOT-single exposure       May cause respiratory irritation.         4,4'-DDT UNLABELED (50-29-3)       StotT-single exposure         STOT-single exposure       Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).         N-NONANE UNLABELED (510-84-1)       StotT-single exposure         STOT-single exposure       May cause drowsiness or dizziness.         CIS-CHLORDANE(ALPHA) UNLABELED (5103-71	National Toxicology Program (NTP) Status	Reasonably anticipated to be Human Carcinogen
known or anticipated carcinogen by NTP.           Reproductive toxicity         Not classified           STOT-single exposure         May cause drowsiness or dizziness.           HEXACHLOROBENZENE UNLABELED (118-74-77)         STOT-single exposure           STOT-single exposure         Causes damage to organs (liver) (Dermal, Inhalation, oral).           TRANS-NONACHLOR (13C10, 98%) (39765-80-57)         STOT-single exposure           STOT-single exposure         May cause respiratory irritation.           2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))         STOT-single exposure           STOT-single exposure         May cause respiratory irritation.           4,4'-DDT UNLABELED (50-29-3)         STOT-single exposure           STOT-single exposure         Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).           N-NONANE UNLABELED (111-84-2)         STOT-single exposure           STOT-single exposure         May cause drowsiness or dizziness.           ISOOCTANE UNLABELED (540-84-1)         May cause drowsiness or dizziness.           STOT-single exposure         May cause drowsiness or dizziness.           ISOOT-single exposure         May cause drowsiness or dizziness.           ISOOT-single exposure         May cause drowsiness or dizziness.           ISOOT-single exposure         May cause drowsiness or dizziness.	ISODRIN (CHEMICAL PURITY 95%) (13C12, 9	9%) (465-73-6 (Unlabeled))
STOT-single exposure       : May cause drowsiness or dizziness.         HEXACHLOROBENZENE UNLABELED (118-74-1)         STOT-single exposure       Causes damage to organs (liver) (Dermal, Inhalation, oral).         TRANS-NONACHLOR (13C10, 98%) (39765-80-5 Unlabeled))         STOT-single exposure       May cause respiratory irritation.         2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))         STOT-single exposure       May cause respiratory irritation.         4,4'-DDT UNLABELED (50-29-3)         STOT-single exposure       Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).         N-NONANE UNLABELED (111-84-2)         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)         STOT-single exposure       May cause drowsiness or dizziness.         ISOCTANE UNLABELED (540-84-1)         STOT-single exposure       May cause drowsiness or dizziness.         ISOCTANE UNLABELED (540-84-1)         STOT-single exposure       May cause drowsiness or dizziness.	National Toxicology Program (NTP) Status	
HEXACHLOROBENZENE UNLABELED (118-7-1)         STOT-single exposure       Causes damage to organs (liver) (Dermal, Inhalation, oral).         TRANS-NONACHLOR (13C10, 98%) (39765-8-5)         STOT-single exposure       May cause respiratory irritation.         2,4-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))         STOT-single exposure       May cause respiratory irritation.         2,4-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))         STOT-single exposure       May cause respiratory irritation.         4,4-DDT UNLABELED (50-29-3)       May cause respiratory irritation.         STOT-single exposure       Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).         N-NONANE UNLABELED (111-84-2)       STOT-single exposure         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)       May cause drowsiness or dizziness.         STOT-single exposure       May cause drowsiness or dizziness.         STOT-single exposure       May cause drowsiness or dizziness.		
STOT-single exposureCauses damage to organs (liver) (Dermal, Inhalation, oral).TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))STOT-single exposureMay cause respiratory irritation.2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))STOT-single exposureMay cause respiratory irritation.4,4'-DDT UNLABELED (50-29-3)Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).STOT-single exposureCauses damage to organs (liver, pancreas) (Dermal, Inhalation, oral).N-NONANE UNLABELED (111-84-2)STOT-single exposureSTOT-single exposureMay cause drowsiness or dizziness.ISOOCTANE UNLABELED (540-84-1)May cause drowsiness or dizziness.STOT-single exposureMay cause drowsiness or dizziness.CIS-CHLORDANE(ALPHA) UNLABELED (510-32-1)May cause drowsiness or dizziness.		
TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))         STOT-single exposure       May cause respiratory irritation.         2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))       STOT-single exposure         STOT-single exposure       May cause respiratory irritation.         4,4'-DDT UNLABELED (50-29-3)       STOT-single exposure         STOT-single exposure       Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).         N-NONANE UNLABELED (111-84-2)       STOT-single exposure         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)       STOT-single exposure         STOT-single exposure       May cause drowsiness or dizziness.         CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)       May cause drowsiness or dizziness.		
STOT-single exposure       May cause respiratory irritation.         2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))         STOT-single exposure       May cause respiratory irritation.         4,4'-DDT UNLABELED (50-29-3)         STOT-single exposure       Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).         N-NONANE UNLABELED (111-84-2)         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)         STOT-single exposure       May cause drowsiness or dizziness.         CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)		
2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))         STOT-single exposure       May cause respiratory irritation.         4,4'-DDT UNLABELED (50-29-3)         STOT-single exposure       Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).         N-NONANE UNLABELED (111-84-2)         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)         STOT-single exposure       May cause drowsiness or dizziness.		
STOT-single exposure       May cause respiratory irritation.         4,4'-DDT UNLABELED (50-29-3)       Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).         STOT-single exposure       Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).         N-NONANE UNLABELED (111-84-2)       May cause drowsiness or dizziness.         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)       STOT-single exposure         STOT-single exposure       May cause drowsiness or dizziness.         CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)       Image: Comparison of the		
4,4'-DDT UNLABELED (50-29-3)         STOT-single exposure       Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).         N-NONANE UNLABELED (111-84-2)       STOT-single exposure         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)       STOT-single exposure         STOT-single exposure       May cause drowsiness or dizziness.         CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)       Vertice of the second secon		
STOT-single exposure       Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).         N-NONANE UNLABELED (111-84-2)       STOT-single exposure         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)       STOT-single exposure         STOT-single exposure       May cause drowsiness or dizziness.         CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)       Image: Cise of the second s		May cause respiratory irritation.
N-NONANE UNLABELED (111-84-2)         STOT-single exposure       May cause drowsiness or dizziness.         ISOOCTANE UNLABELED (540-84-1)         STOT-single exposure       May cause drowsiness or dizziness.         CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)		
STOT-single exposure     May cause drowsiness or dizziness.       ISOOCTANE UNLABELED (540-84-1)     May cause drowsiness or dizziness.       STOT-single exposure     May cause drowsiness or dizziness.       CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)		Causes damage to organs (liver, pancreas) (Dermal, Inhalation, oral).
ISOOCTANE UNLABELED (540-84-1)       STOT-single exposure     May cause drowsiness or dizziness.       CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)		
STOT-single exposure     May cause drowsiness or dizziness.       CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)		May cause drowsiness or dizziness.
CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)		
	STOT-single exposure	May cause drowsiness or dizziness.
STOT-single exposure May cause respiratory irritation.	CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)	
	STOT-single exposure	May cause respiratory irritation.

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TRANS-NONACHLOR UNLABELED (39765-80	-5)	
STOT-single exposure	May cause respiratory irritation.	
LINDANE (13C6, 99%) (58-89-9 (Unlabeled))	·	
STOT-single exposure	May cause damage to organs (central nervous system) (Dermal, Inhalation, oral).	
STOT-repeated exposure :	Not classified	
HEXACHLOROBENZENE (13C6, 99%) (118-74	-1)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure (Dermal, Inhalation, oral).	
ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))		
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.	
ALDRIN UNLABELED (309-00-2)		
STOT-repeated exposure	Causes damage to organs (central nervous system, genital organs, kidneys, liver) through prolonged or repeated exposure (Dermal, Inhalation, oral).	
DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabele	d))	
STOT-repeated exposure	Causes damage to organs (central nervous system, liver, blood) through prolonged or repeated exposure (Dermal, Inhalation, oral).	
2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlat	2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))	
STOT-repeated exposure	Causes damage to organs (genital organs) through prolonged or repeated exposure (Dermal, Inhalation, oral).	
4,4'-DDT (RING-13C12, 99%) (50-29-3)		
STOT-repeated exposure	Causes damage to organs (liver, pancreas) through prolonged or repeated exposure (Dermal, Inhalation, oral).	
2,4'-DDT UNLABELED (97% CHEMICAL PUR	ITY) (789-02-6)	
STOT-repeated exposure	Causes damage to organs (central nervous system) through prolonged or repeated exposure (Dermal, Inhalation, oral).	
DIELDRIN UNLABELED (60-57-1)		
STOT-repeated exposure	Causes damage to organs (blood, central nervous system, liver) through prolonged or repeated exposure (Dermal, Inhalation, oral).	
4,4'-DDT UNLABELED (50-29-3)		
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.	
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
LINDANE UNLABELED (58-89-9)		
STOT-repeated exposure	May cause damage to organs (central nervous system) through prolonged or repeated exposure (Dermal, Inhalation, oral).	
2,3',4',5-TETRACB (PCB-70) (13C12, 99%) (208263-81-4)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure (Dermal, Inhalation, oral).	

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4,4'-DICB (PCB-15) (13C12, 99%) (208263-	67-6)	
STOT-repeated exposure	May cause damage to organs (kidneys, liver) through prolonged or repeated exposure (Dermal, Inhalation, oral).	
CIS-HEPTACHLOR EPOXIDE UNLABELED	(1024-57-3)	
STOT-repeated exposure	May cause damage to organs (blood, liver, brain) through prolonged or repeated exposure (Dermal, Inhalation, oral).	
TRANS-HEPTACHLOR EPOXIDE UNLABE	LED (28044-83-9)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure (Dermal, Inhalation, oral).	
Aspiration hazard Viscosity, kinematic	<ul> <li>May be fatal if swallowed and enters airways.</li> <li>≤ 1.008 mm²/s at 20 °C (68 °F)</li> </ul>	
N-NONANE UNLABELED (111-84-2)		
Viscosity, kinematic	≤ 1.008 mm²/s at 20 °C (68 °F)	
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%) (33213-65-9 (Unlabeled))		
Viscosity, kinematic	Not applicable	
ENDOSULFAN I (13C9, 99%) (959-98-8 (Un	ENDOSULFAN I (13C9, 99%) (959-98-8 (Unlabeled))	
Viscosity, kinematic	Not applicable	
ENDOSULFAN I UNLABELED (959-98-8)		
Viscosity, kinematic	Not applicable	
ENDOSULFAN II UNLABELED (33213-65-9	)	
Viscosity, kinematic	Not applicable	
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.	
Symptoms/effects Symptoms/effects after inhalation Symptoms/effects after skin contact	<ul> <li>May cause drowsiness or dizziness.</li> <li>Harmful if inhaled.</li> <li>Causes skin irritation.</li> </ul>	
Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul> <li>Causes serious eye irritation.</li> <li>May be fatal if swallowed and enters airways.</li> </ul>	

### **SECTION 12: Ecological information**

### 12.1. Toxicity Ecology - water

: Harmful to aquatic life with long lasting effects.

HEXACHLOROBENZENE (13C6, 99%) (118-74-1)	
LC50 - Fish [1]	7.6 mg/l Lepomis macrochirus (Bluegill) - 96 h
EC50 - Other aquatic organisms [1]	> 0.005 mg/l Daphnia magna (Water flea) - 48 h
NOEC (chronic)	> 0.0048 mg/l Pimephales promelas (fathead minnow) - 96 h
HEXACHLOROBENZENE UNLABELED (118-74-1)	
LC50 - Fish [1]	7.6 mg/l Lepomis macrochirus (Bluegill) -96h
EC50 - Crustacea [1]	> 0.005 mg/l Daphnia magna (Water flea) -48h

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HEXACHLOROBENZENE UNLABELED (118-7	4-1)
NOEC (chronic)	> 0.0048 mg/l Pimephales promelas (fathead minnow) -96h
ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))	
LC50 - Fish [1]	0.01 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 - Crustacea [1]	0.03 mg/l Daphnia magna (Water flea) - 48 h
PENTACHLOROBENZENE (13C6, 99%) (608-9	3-5 (Unlabeled))
LC50 - Fish [1]	0.247 mg/l - Pimephales promelas (fathead minnow)- 96.0 h
PENTACHLOROBENZENE UNLABELED (608-	93-5)
LC50 - Fish [1]	0.247 mg/l Pimephales promelas (fathead minnow) -96h
ALDRIN UNLABELED (309-00-2)	
LC50 - Fish [1]	0.01 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 - Crustacea [1]	0.03 mg/l Daphnia magna (Water flea) - 48 h
DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabeled))	
LC50 - Fish [1]	1.6 mg/l Carassius auratus (goldfish) - 96 h
EC50 - Crustacea [1]	79.5 mg/l Daphnia magna (Water flea) - 48 h
TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))	
EC50 - Crustacea [1]	0.022 mg/l Daphnia pulex (Water flea) - 48 h
4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabel	led))
LC50 - Fish [1]	0.2 – 0.3 mg/l Lepomis macrochirus (Bluegill) - 96 h
LC50 - Other aquatic organisms [1]	0.05 – 0.18 mg/l Salmo salar (Atlantic salmon) - 96 h
LC50 - Fish [2]	0.03 – 0.04 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlab	eled))
LC50 - Fish [1]	0.03 mg/l Other fish - 24 h
4,4'-DDT (RING-13C12, 99%) (50-29-3)	
LC50 - Fish [1]	0.01 mg/l Pimephales promelas (fathead minnow) - 96 h
LC50 - Other aquatic organisms [1]	0.01 mg/l Lepomis macrochirus (Bluegill) - 96.0 h
EC50 - Crustacea [1]	0.00108 mg/l Daphnia magna (Water flea) - 48 h
LC50 - Fish [2]	0.0034 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
ErC50 other aquatic plants	> 20 mg/l Scenedesmus quadricauda (Green algae) - 7 d
LOEC (chronic)	150 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
NOEC (chronic)	113 mg/l Oncorhynchus mykiss (rainbow trout) - 3 d
ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))	
LC50 - Fish [1]	< 0.001 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 - Crustacea [1]	≥ 0.02 mg/l Daphnia pulex (Water flea) - 48 h

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TRANS-CHLORDANE (GAMMA) (13C10, 99%)	TRANS-CHLORDANE (GAMMA) (13C10, 99%) (5103-74-2 (Unlabeled))	
LC50 - Fish [1]	0.05 mg/l Lepomis macrochirus - 96 h	
2,4'-DDT UNLABELED (97% CHEMICAL PURI	TY) (789-02-6)	
LC50 - Fish [1]	0.03 mg/l Other fish - 24 h	
DIELDRIN UNLABELED (60-57-1)		
LC50 - Fish [1]	1.6 mg/l Carassius auratus (goldfish) - 96 h	
EC50 - Crustacea [1]	79.5 mg/l Daphnia magna (Water flea) - 48 h	
ENDRIN UNLABELED (72-20-8)		
LC50 - Fish [1]	< 0.001 mg/l Oncorhynchus mykiss (rainbow trout) -96h	
EC50 - Crustacea [1]	0.02 mg/l Daphnia pulex (Water flea) -48h	
4,4'-DDT UNLABELED (50-29-3)		
LC50 - Fish [1]	0.01 mg/l Pimephales promelas (fathead minnow) - 96 h	
EC50 - Crustacea [1]	0.00108 mg/l Daphnia magna (Water flea) - 48 h	
ErC50 algae	> 20 mg/l Scenedesmus quadricauda (Green Algae) - 7 d	
ErC50 other aquatic plants	113 mg/l Oncorhynchus mykiss (rainbow trout) - 3 d	
NOEC (chronic)	113 mg/l Oncorhynchus mykiss (rainbow trout) - 3 d	
DELTA-BHC (13C6, 99%) (319-86-8 (Unlabeled	l))	
LC50 - Fish [1]	2.83 mg/l Other fish - 96 h	
MIREX (13C10, 98%) (2385-85-5 (Unlabeled))		
LC50 - Fish [1]	0.023 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h	
EC50 - Crustacea [1]	2.6 mg/l Daphnia magna (Water flea) - 48 h	
BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled	))	
LC50 - Fish [1]	1.6 mg/l Poecilia reticulata (guppy) - 96 h	
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (10	024-57-3 (Unlabeled))	
LC50 - Fish [1]	0.02 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h	
EC50 - Crustacea [1]	0.24 mg/l Daphnia magna (Water flea) - 48 h	
HEPTACHLOR (13C10, 99%) (76-44-8 (Unlabeled))		
LC50 - Fish [1]	0.007 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h	
EC50 - Crustacea [1]	0.078 mg/l Daphnia magna (Water flea) - 48 h	
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%) (33213-65-9 (Unlabeled))		
LC50 - Fish [1]	0.0066 mg/l Other fish - 96 h	
EC50 - Crustacea [1]	0.1 – 1 mg/l Daphnia magna (Water flea) - 48 h	
ENDOSULFAN I (13C9, 99%) (959-98-8 (Unlabeled))		
LC50 - Fish [1]	0.2 µg/l Other fish - 21 d	

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KEPONE (CHLORDECONE) (13C10, 99%) (14	3-50-0 (Unlabeled))	
LC50 - Fish [1]	0.03 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h	
EC50 - Crustacea [1]	0.26 mg/l Daphnia magna (Water flea) - 48 h	
ErC50 algae	0.35 μg/l Chlorococcum sp 7 d	
ALPHA-HCH (ALPHA-BHC) (13C6, 99%) (319-4	34-6)	
LC50 - Fish [1]	0.12 mg/l Carassius auratus (Goldfish) - 48 h	
LC50 - Other aquatic organisms [1]	1.49 mg/l Other fish - 96 h	
EC50 - Crustacea [1]	0.2 – 1.7 mg/l Daphnia magna (Water flea) - 48 h	
LC50 - Fish [2]	0.2 mg/l Cyprinus carpio (Carp) - 48 h	
ErC50 algae	> 100 mg/l No information available - 48 h	
4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabe	4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabeled))	
LC50 - Fish [1]	0.04 - 0.05 mg/l - Lepomis macrochirus (Bluegill) - 96 h	
EC50 - Crustacea [1]	0.01 mg/l Daphnia pulex (Water flea) - 48 h	
LINDANE UNLABELED (58-89-9)		
LC50 - Fish [1]	0.2 mg/l Cyprinus carpio (Carp) - 96 h	
EC50 - Crustacea [1]	0.8 – 6.5 mg/l Daphnia magna (Water flea) - 48 h	
ErC50 algae	4 mg/l 72 h	
NOEC chronic fish	0.056 mg/l Oncorhynchus mykiss (rainbow trout) - 3 d	
4,4'-DICB (PCB-15) (13C12, 99%) (208263-67-	6)	
EC50 - Crustacea [1]	0.45 mg/l Daphnia Magna (Water flea) - 48 h	
MIREX UNLABELED (2385-85-5)		
LC50 - Fish [1]	0.023 mg/l Oncorhynchus mykiss (rainbow trout) -96h	
EC50 - Crustacea [1]	2.6 mg/I Daphnia magna (Water flea) -2.6mg/L-48h	
ALPHA-BHC UNLABELED (319-84-6)		
LC50 - Fish [1]	0.12 mg/l Carassius auratus (Goldfish) - 48 h	
LC50 - Other aquatic organisms [1]	1.49 mg/l Other fish - 96 h	
EC50 - Crustacea [1]	0.2 – 1.7 mg/l Daphnia magna (Water flea) - 48 h	
LC50 - Fish [2]	0.2 mg/l Cyprinus carpio (Carp) - 48 h	
ErC50 algae	> 100 mg/l No information available - 48 h	
DELTA-BHC UNLABELED (319-86-8)		
LC50 - Fish [1]	2.83 mg/l other fish -96h	
HEPTACHLOR UNLABELED (76-44-8)		
LC50 - Fish [1]	0.007 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h	
EC50 - Crustacea [1]	0.078 mg/l Daphnia magna (Water flea) - 48 h	
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CIS-CHLORDANE(ALPHA) UNLABELED (5103	3-71-9)
LC50 - Fish [1]	0.0074 mg/l Lepomis macrochirus (Bluegill) -96h
TRANS-NONACHLOR UNLABELED (39765-80	-5)
EC50 - Crustacea [1]	Daphnia pulex (Water flea) - 0.022 mg/l - 48 h
CIS-HEPTACHLOR EPOXIDE UNLABELED (10	)24-57-3)
LC50 - Fish [1]	0.02 mg/l Oncorhynchus mykiss (rainbow trout) -96h
EC50 - Crustacea [1]	0.24 mg/l Daphnia magna (Water flea) -48h
TRANS-CHLORDANE (GAMMA) UNLABELED	(5103-74-2)
LC50 - Fish [1]	0.05 mg/l Lepomis machrochirus - 96 h
4,4'-DDD UNLABELED (72-54-8)	
LC50 - Fish [1]	0.04 – 0.05 mg/l Lepomis macrochirus (Bluegill) - 96.0 h
LC50 - Other aquatic organisms [1]	0.06 – 0.09 mg/l - Oncorhynchus mykiss (rainbow trout) - 96.0 h
EC50 - Crustacea [1]	0.01 mg/l Daphnia pulex (Water flea) - 48 h
LC50 - Fish [2]	1.18 – 9 mg/l - other fish - 96.0 h
LC50 - Other aquatic organisms [2]	3.47 – 5.58 mg/l - Pimephales promelas (fathead minnow) - 96.0 h
BETA-BHC UNLABELED (319-85-7)	
LC50 - Fish [1]	1.6 mg/l Poecilia reticulata (guppy) -96h
KEPONE (CHLORDECONE) UNLABELED (14	3-50-0)
LC50 - Fish [1]	0.03 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 - Crustacea [1]	0.26 mg/l Daphnia magna (Water flea) - 48 h
ErC50 algae	0.35 µg/l Chlorococcum sp 7 d
ENDOSULFAN I UNLABELED (959-98-8)	
LC50 - Fish [1]	0.2 µg/l Other fish - 21 d
LINDANE (13C6, 99%) (58-89-9 (Unlabeled))	
LC50 - Fish [1]	0.2 mg/l Cyprinus carpio (Carp) - 96 h
EC50 - Crustacea [1]	0.8 – 6.5 mg/l Daphnia magna (Water flea) - 48 h
ErC50 algae	4 mg/l 72 h
NOEC chronic fish	0.056 mg/l Oncorhynchus mykiss (rainbow trout) - 3 d
ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))	
LC50 - Fish [1]	0.012 mg/l Lepomis macrochirus - 24 h
4,4'-DDE UNLABELED (72-55-9)	
LC50 - Fish [1]	0.2 – 0.3 mg/l Lepomis macrochirus (Bluegill) - 96 h
LC50 - Other aquatic organisms [1]	0.05 – 0.18 mg/l Salmo salar (Atlantic salmon) - 96 h
LC50 - Fish [2]	0.03 – 0.04 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h

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ENDOSULFAN II UNLABELED (33213-65-9)	
LC50 - Fish [1]	0.0066 mg/l Other fish - 96 h
EC50 - Crustacea [1]	0.1 – 1 mg/l Daphnia magna (Water flea) - 48 h
12.2. Persistence and degradability	
EXPANDED POPS PESTICIDES CALIBRATION	N SOLUTION CS3 (UNLABELED/13C, 99%) IN NONANE/ISOOCTANE
Persistence and degradability	May cause long-term adverse effects in the environment.
PENTACHLOROBENZENE (13C6, 99%) (608-9	3-5 (Unlabeled))
Persistence and degradability	May cause long-term adverse effects in the environment.
PENTACHLOROBENZENE UNLABELED (608-	93-5)
Persistence and degradability	May cause long-term adverse effects in the environment.
2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlab	eled))
Persistence and degradability	May cause long-term adverse effects in the environment.
2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))	
Persistence and degradability	May cause long-term adverse effects in the environment.
4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabeled))	
Persistence and degradability	May cause long-term adverse effects in the environment.
LINDANE (13C6, 99%) (58-89-9 (Unlabeled))	
Persistence and degradability	May cause long-term adverse effects in the environment.
12.3. Bioaccumulative potential	
EXPANDED POPS PESTICIDES CALIBRATION	N SOLUTION CS3 (UNLABELED/13C, 99%) IN NONANE/ISOOCTANE
Partition coefficient n-octanol/water (Log Pow)	5.65
Bioaccumulative potential	Indication of bioaccumulation.
HEXACHLOROBENZENE (13C6, 99%) (118-74	-1)
Bioconcentration factor (BCF REACH)	22000
Bioaccumulative potential	Bioaccumulation Pimephale promelas (fathead minnow) - 32 d - 0.0003 mg/l.
HEXACHLOROBENZENE UNLABELED (118-7	4-1)
Bioconcentration factor (BCF REACH)	22000
Bioaccumulative potential	Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d.
ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))	
Bioconcentration factor (BCF REACH)	3700
Partition coefficient n-octanol/water (Log Pow)	6.5
Bioaccumulative potential	Bioaccumulation: Leuciscus idus (Golden orfe) - 3 d.
PENTACHLOROBENZENE (13C6, 99%) (608-93-5 (Unlabeled))	
BCF - Fish [1]	79.8 - μg/l. Pimephales promelas (fathead minnow) - 31 d

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PENTACHLOROBENZENE UNLABELED (608-	93-5)
Bioaccumulative potential	Pimephales promelas (fathead minnow)-31d.
ALDRIN UNLABELED (309-00-2)	
Partition coefficient n-octanol/water (Log Pow)	6.5
TRANS-NONACHLOR (13C10, 98%) (39765-80	-5 (Unlabeled))
Partition coefficient n-octanol/water (Log Pow)	6.35
CIS-NONACHLOR (13C10, 98%) (5103-73-1 (U	nlabeled))
Partition coefficient n-octanol/water (Log Pow)	2.794
4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabe	led))
BCF - Fish [1]	3.84 ug/l - Gambusia affinis (Mosquito fish) - 33 d
Bioconcentration factor (BCF REACH)	12.037
Partition coefficient n-octanol/water (Log Pow)	6.51
4,4'-DDT (RING-13C12, 99%) (50-29-3)	
BCF - Fish [1]	0.001 mg/l Oncorhynchus mykiss (rainbow trout) - 20 d
Bioconcentration factor (BCF REACH)	46,670
Partition coefficient n-octanol/water (Log Pow)	6.91
ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))	
Partition coefficient n-octanol/water (Log Pow)	5.2
2,4'-DDT UNLABELED (97% CHEMICAL PURI	TY) (789-02-6)
Bioconcentration factor (BCF REACH)	37000 Pimephales promelas (fathead minnow) - 32 d
2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlat	beled))
Partition coefficient n-octanol/water (Log Pow)	5.58
ENDRIN UNLABELED (72-20-8)	
Bioconcentration factor (BCF REACH)	13000
Partition coefficient n-octanol/water (Log Pow)	5.2
Bioaccumulative potential	Pimephales promela (fathead minnow)-56d-0.63 mg/l.
4,4'-DDT UNLABELED (50-29-3)	
BCF - Fish [1]	Oncorhynchus mykiss (rainbow trout) - 20 d
Bioconcentration factor (BCF REACH)	46670
Partition coefficient n-octanol/water (Log Pow)	6.91
N-NONANE UNLABELED (111-84-2)	
Partition coefficient n-octanol/water (Log Pow)	5.65
Bioaccumulative potential	Indication of bioaccumulation.
ISOOCTANE UNLABELED (540-84-1)	
Partition coefficient n-octanol/water (Log Pow)	4.6

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MIREX (13C10, 98%) (2385-85-5 (Unlabeled))			
BCF - Fish [1]	0.0012 mg/l Pimephales promelas (rainbow trout) - 32 d		
Bioconcentration factor (BCF REACH)	18100		
Partition coefficient n-octanol/water (Log Pow)	5.28		
BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled)	)		
BCF - Fish [1]	Cyprinus carpio (Carp) - 35 d - 0.05 mg/l		
Partition coefficient n-octanol/water (Log Pow)	3.78		
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (10	)24-57-3 (Unlabeled))		
Bioconcentration factor (BCF REACH)	14400		
Partition coefficient n-octanol/water (Log Pow)	5.4		
Bioaccumulative potential	Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d.		
HEPTACHLOR (13C10, 99%) (76-44-8 (Unlabel	ed))		
BCF - Fish [1]	0.00043 mg/l Pimephales promelas (fathead minnow) - 276 d		
Bioconcentration factor (BCF REACH)	23814		
ENDOSULFAN II (CHEMICAL PURITY >95%) (			
BCF - Fish [1]	0.0001 mg/l Other fish - 21 d		
Bioconcentration factor (BCF REACH)	9908		
ENDOSULFAN I (13C9, 99%) (959-98-8 (Unlabeled))			
Bioconcentration factor (BCF REACH)	10994		
ALPHA-HCH (ALPHA-BHC) (13C6, 99%) (319-8	34-6)		
BCF - Fish [1]	0.8 mg/l Other - 96 h		
Bioconcentration factor (BCF REACH)	250		
Partition coefficient n-octanol/water (Log Pow)	3.8		
4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabe	ed))		
Partition coefficient n-octanol/water (Log Pow)	6.02		
Bioaccumulative potential	Indication of bioaccumulation.		
4,4'-DICB (PCB-15) (13C12, 99%) (208263-67-6)			
BCF - Fish [1]	Cyprinus carpio (Carp) - 28 d		
Bioconcentration factor (BCF REACH)	14,000		
Partition coefficient n-octanol/water (Log Pow)	4.1		
MIREX UNLABELED (2385-85-5)	MIREX UNLABELED (2385-85-5)		
Bioconcentration factor (BCF REACH)	18100		
Partition coefficient n-octanol/water (Log Pow)	5.28		
Bioaccumulative potential	Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d.		

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ALPHA-BHC UNLABELED (319-84-6)			
BCF - Fish [1]	0.8 mg/l Other - 96 h		
Bioconcentration factor (BCF REACH)	250		
Partition coefficient n-octanol/water (Log Pow)	3.8		
DELTA-BHC UNLABELED (319-86-8)			
Bioconcentration factor (BCF REACH)	326		
Bioaccumulative potential	Bioaccumulation other fish-33d.		
HEPTACHLOR UNLABELED (76-44-8)			
BCF - Fish [1]	0.00043 mg/l Pimephales promelas (fathead minnow) - 276 d		
Bioconcentration factor (BCF REACH)	23814		
CIS-CHLORDANE(ALPHA) UNLABELED (5103	-71-9)		
Bioconcentration factor (BCF REACH)	332		
Bioaccumulative potential	Lepomis macrochirus (Bluegill)-24h.		
TRANS-NONACHLOR UNLABELED (39765-80	-5)		
Partition coefficient n-octanol/water (Log Pow)	6.35		
CIS-NONACHLOR UNLABELED (5103-73-1)			
Partition coefficient n-octanol/water (Log Pow)	2.794		
CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3)			
Bioconcentration factor (BCF REACH)	14400		
Partition coefficient n-octanol/water (Log Pow)	5.4		
Bioaccumulative potential	Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d.		
2,4'-DDE UNLABELED (3424-82-6)			
Partition coefficient n-octanol/water (Log Pow)	5.58		
4,4'-DDD UNLABELED (72-54-8)			
Partition coefficient n-octanol/water (Log Pow)	6.02		
Bioaccumulative potential	Indication of bioaccumulation.		
BETA-BHC UNLABELED (319-85-7)			
Bioconcentration factor (BCF REACH)	500		
Partition coefficient n-octanol/water (Log Pow)	3.78		
Bioaccumulative potential	Bioaccumulative potential Cyprinus carpio (Carp)-35d-0.05 mg/l.		
ENDOSULFAN I UNLABELED (959-98-8)			
Bioconcentration factor (BCF REACH)	10994		
LINDANE (13C6, 99%) (58-89-9 (Unlabeled))			
BCF - Fish [1]	0.0091 mg/l Bioaccumulation Pimephales promels (fathead minnow) - 304 d		
Bioconcentration factor (BCF REACH)	674		
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LINDANE (13C6, 99%) (58-89-9 (Unlabeled))			
Partition coefficient n-octanol/water (Log Pow)	3.5 at 22 °C (72 °F)		
ISODRIN (CHEMICAL PURITY 95%) (13C12, 9	9%) (465-73-6 (Unlabeled))		
Bioaccumulative potential	Bioaccumulation Leuciscus idus (Golden orfe); Bioconcentration factor (BCF): 3,890.		
4,4'-DDE UNLABELED (72-55-9)			
BCF - Fish [1]	3.84 ug/l - Gambusia affinis (Mosquito fish) - 33 d		
Bioconcentration factor (BCF REACH)	12.037		
Partition coefficient n-octanol/water (Log Pow)	6.51		
ENDOSULFAN II UNLABELED (33213-65-9)			
BCF - Fish [1]	0.0001 mg/l Other fish - 21 d		
Bioconcentration factor (BCF REACH)	9908		
12.4. Mobility in soil			

No additional information available

12.5. Other adverse effects

Other adverse effects

: Environmental precautions. Disposal must be done according to official regulations. Avoid release to the environment.

SECTION 13: Disposal considerations	5
13.1. Disposal methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Ecology - waste materials	: Dispose of as unused product.

#### SECTION 14: Transport information

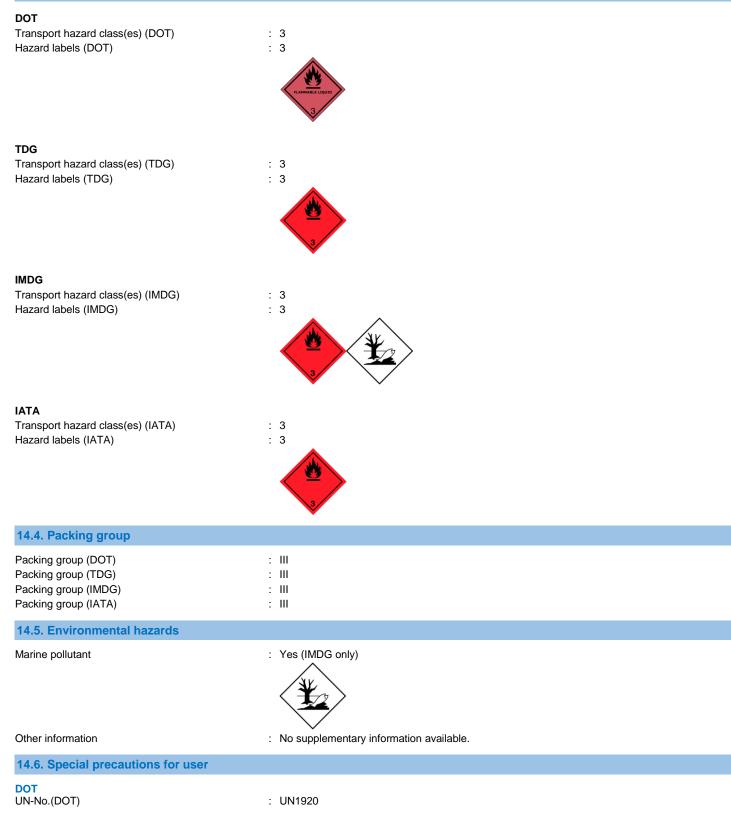
In accordance with DOT / TDG / IMDG / IATA

14.1. UN number		
DOT NA No UN-No. (TDG) UN-No. (IMDG) UN-No. (IATA)	: UN1920 : UN1920 : 1920 : 1920	
14.2. UN proper shipping name		
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	: Nonanes : NONANES : NONANES : Nonanes	

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#### 14.3. Transport hazard class(es)



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DOT Special Provisions (49 CFR 172.102)	<ul> <li>B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.</li> <li>IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).</li> <li>T2 - 1.5 178.274(d)(2) Normal</li></ul>
	Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59
	F) and 50 C (122 F), respectively.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a
	passenger vessel.
TDG UN-No. (TDG)	: UN1920
Explosive Limit and Limited Quantity Index	: 5L
Excepted quantities (TDG)	: E1
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 60 L
Emergency Response Guide (ERG) Number	: 128
IMDG	
Limited quantities (IMDG) Excepted quantities (IMDG)	: 5L : E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage)	: S-E - SPILLAGE SCHEDULE Echo - FLAMMABLE LIQUIDS, FLOATING ON WATER
Stowage category (IMDG)	: A
Flash point (IMDG)	
Properties and observations (IMDG)	: Colourless liquids. Explosive limits: 0.8% to 2.9% normal-NONANE: flashpoint 31°C c.c. Immiscible with water. Irritating to skin, eyes and mucous membranes.
MFAG-No	: 128
1010	
IATA PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L

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CAO packing instructions (IATA)	:	366
CAO max net quantity (IATA)	:	220L
ERG code (IATA)	:	3L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

EXPANDED POPS PESTICIDES CALIBRATION SOLUTION CS3 (UNLABELED/13C, 99%) IN NONANE/ISOOCTANE				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard			
Commercial status of components according to the Unit	ed States Environmental F	Protection Agency's	Toxic Substances Cor	ntrol Act (TSCA):
Name	CAS-No.	Listing	Commercial status	Flags
HEXACHLOROBENZENE (13C6, 99%)	118-74-1	Present	Active	
HEXACHLOROBENZENE UNLABELED	118-74-1	Present	Active	
ALDRIN (13C12, 99%)	309-00-2 (Unlabeled)	Not present	-	
PENTACHLOROBENZENE (13C6, 99%)	608-93-5 (Unlabeled)	Not present	-	
PENTACHLOROBENZENE UNLABELED	608-93-5	Present	Active	S;T
ALDRIN UNLABELED	309-00-2	Not present	-	
DIELDRIN (13C12, 98-99%)	60-57-1 (Unlabeled)	Not present	-	
OXYCHLORDANE (13C10, 99%)	27304-13-8 (Unlabeled)	Not present	-	
TRANS-NONACHLOR (13C10, 98%)	39765-80-5 (Unlabeled)	Not present	-	
CIS-NONACHLOR (13C10, 98%)	5103-73-1 (Unlabeled)	Not present	-	
4,4'-DDE (RING-13C12, 99%)	72-55-9 (Unlabeled)	Not present	-	
2,4'-DDT (RING-13C12, 99%)	789-02-6 (Unlabeled)	Not present	-	
4,4'-DDT (RING-13C12, 99%)	50-29-3	Present	Active	S
ENDRIN (13C12, 99%)	72-20-8 (Unlabeled)	Not present	-	
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	5103-74-2 (Unlabeled)	Not present	-	
2,4'-DDD (RING-13C12, 99%)	53-19-0 (Unlabeled)	Not present	-	
2,4'-DDT UNLABELED (97% CHEMICAL PURITY)	789-02-6	Not present	-	
2,4'-DDE (RING-13C12, 99%)	3424-82-6 (Unlabeled)	Not present	-	
DIELDRIN UNLABELED	60-57-1	Not present	-	
ENDRIN UNLABELED	72-20-8	Not present	-	
4,4'-DDT UNLABELED	50-29-3	Present	Active	S
N-NONANE UNLABELED	111-84-2	Present	Active	Т

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Name	CAS-No.	Listing	Commercial status	Flags
ISOOCTANE UNLABELED	540-84-1	Present	Active	
DELTA-BHC (13C6, 99%)	319-86-8 (Unlabeled)	Not present	-	
MIREX (13C10, 98%)	2385-85-5 (Unlabeled)	Not present	-	
BETA-BHC (13C6, 99%)	319-85-7 (Unlabeled)	Not present	-	
CIS-HEPTACHLOR EPOXIDE (13C10, 99%)	1024-57-3 (Unlabeled)	Not present	-	
HEPTACHLOR (13C10, 99%)	76-44-8 (Unlabeled)	Not present	-	
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%)	33213-65-9 (Unlabeled)	Not present	-	
ENDOSULFAN I (13C9, 99%)	959-98-8 (Unlabeled)	Not present	-	
KEPONE (CHLORDECONE) (13C10, 99%)	143-50-0 (Unlabeled)	Not present	-	
ALPHA-HCH (ALPHA-BHC) (13C6, 99%)	319-84-6	Present	Active	
4,4'-DDD (RING-13C12, 99%)	72-54-8 (Unlabeled)	Not present	-	
LINDANE UNLABELED	58-89-9	Present	Active	
2,3',4',5-TETRACB (PCB-70) (13C12, 99%)	208263-81-4	Not present	-	
4,4'-DICB (PCB-15) (13C12, 99%)	208263-67-6	Not present	-	
MIREX UNLABELED	2385-85-5	Not present	-	
ALPHA-BHC UNLABELED	319-84-6	Present	Active	
DELTA-BHC UNLABELED	319-86-8	Present	Active	
HEPTACHLOR UNLABELED	76-44-8	Not present	-	
CIS-CHLORDANE(ALPHA) UNLABELED	5103-71-9	Not present	-	
TRANS-NONACHLOR UNLABELED	39765-80-5	Not present	-	
CIS-NONACHLOR UNLABELED	5103-73-1	Not present	-	
CIS-HEPTACHLOR EPOXIDE UNLABELED	1024-57-3	Not present	-	
TRANS-HEPTACHLOR EPOXIDE UNLABELED	28044-83-9	Not present	-	
TRANS-CHLORDANE (GAMMA) UNLABELED	5103-74-2	Not present	-	
2,4'-DDD UNLABELED	53-19-0	Not present	-	
2,4'-DDE UNLABELED	3424-82-6	Not present	-	
4,4'-DDD UNLABELED	72-54-8	Not present	-	
BETA-BHC UNLABELED	319-85-7	Present	Active	
OXYCHLORDANE UNLABELED	27304-13-8	Not present	-	
KEPONE (CHLORDECONE) UNLABELED	143-50-0	Not present	-	
ENDOSULFAN I UNLABELED	959-98-8	Not present	-	
LINDANE (13C6, 99%)	58-89-9 (Unlabeled)	Not present	-	
ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%)	465-73-6 (Unlabeled)	Not present	-	
4,4'-DDE UNLABELED	72-55-9	Not present	-	

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Name	CAS-No.		Commercial status	Flags
ENDOSULFAN II UNLABELED	33213-65-9	Not present	-	

### HEXACHLOROBENZENE (13C6, 99%) (118-74-1)

Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ 10 lb	
SARA Section 311/312 Hazard Classes Delayed (chronic) health hazard	

HEXACHLOROBENZENE UNLABELED (118-74-1)	
Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	10 lb
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard

ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Subject to reporting requirements of United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

PENTACHLOROBENZENE (13C6, 99%) (608-93-5 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.

PENTACHLOROBENZENE UNLABELED (608-93-5)	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	10 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

ALDRIN UNLABELED (309-00-2)	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

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DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

OXYCHLORDANE (13C10, 99%) (27304-13-8 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

CIS-NONACHLOR (13C10, 98%) (5103-73-1 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

4,4'-DDT (RING-13C12, 99%) (50-29-3)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	1 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Listed on the United States SARA Section 302

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ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
TRANS-CHLORDANE (GAMMA) (13C10, 99%) (5103-74-2 (Unlabeled))		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard	

2,4'-DDD (RING-13C12, 99%) (53-19-0 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard

2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

DIELDRIN UNLABELED (60-57-1)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	1 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

ENDRIN UNLABELED (72-20-8)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	1 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

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4,4'-DDT UNLABELED (50-29-3)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	1 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

N-NONANE UNLABELED (111-84-2)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard

ISOOCTANE UNLABELED (540-84-1)	
Not subject to reporting requirements of the United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	1000 lb
SARA Section 311/312 Hazard Classes	Fire hazard Delayed (chronic) health hazard

DELTA-BHC (13C6, 99%) (319-86-8 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

MIREX (13C10, 98%) (2385-85-5 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
	Immediate (acute) health hazard Delayed (chronic) health hazard

CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

## Safety Data Sheet

HEPTACHLOR (13C10, 99%) (76-44-8 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%) (33213-65-9 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

ENDOSULFAN I (13C9, 99%) (959-98-8 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

KEPONE (CHLORDECONE) (13C10, 99%) (143-50-0 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

ALPHA-HCH (ALPHA-BHC) (13C6, 99%) (319-84-6)	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	10 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabeled))	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

LINDANE UNLABELED (58-89-9)	
Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	1 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 1,000lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form

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2,3',4',5-TETRACB (PCB-70) (13C12, 99%) (208263-81-4)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302

4,4'-DICB (PCB-15) (13C12, 99%) (208263-67-6)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

MIREX UNLABELED (2385-85-5)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

ALPHA-BHC UNLABELED (319-84-6)	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	10 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

DELTA-BHC UNLABELED (319-86-8)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	1 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

HEPTACHLOR UNLABELED (76-44-8)	
Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	1 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

### Safety Data Sheet

TRANS-NONACHLOR UNLABELED (39765-80-5)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

CIS-NONACHLOR UNLABELED (5103-73-1)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	1 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

TRANS-HEPTACHLOR EPOXIDE UNLABELED (28044-83-9)	
	Immediate (acute) health hazard Delayed (chronic) health hazard

TRANS-CHLORDANE (GAMMA) UNLABELED (5103-74-2)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

2,4'-DDD UNLABELED (53-19-0)	
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard

2,4'-DDE UNLABELED (3424-82-6)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

4,4'-DDD UNLABELED (72-54-8)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	1 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

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BETA-BHC UNLABELED (319-85-7)	
Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	1 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard

OXYCHLORDANE UNLABELED (27304-13-8)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard			

KEPONE (CHLORDECONE) UNLABELED (143-50-0)				
Not subject to reporting requirements of the United States SARA Section 313				
CERCLA RQ 1 lb				
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard			

ENDOSULFAN I UNLABELED (959-98-8)			
Not subject to reporting requirements of the United States SARA Section 313			
CERCLA RQ 1 lb			
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard			

LINDANE (13C6, 99%) (58-89-9 (Unlabeled))				
SARA Section 302 Threshold Planning Quantity (TPQ) Listed on the United States SARA Section 302				
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard			

ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))			
SARA Section 302 Threshold Planning Quantity       Listed on the United States SARA Section 302         (TPQ)       Comparison			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard		

4,4'-DDE UNLABELED (72-55-9)			
Not subject to reporting requirements of the United States SARA Section 313			
CERCLA RQ 1 lb			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard		

## ENDOSULFAN II UNLABELED (33213-65-9) Not subject to reporting requirements of the United States SARA Section 313

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ENDOSULFAN II UNLABELED (33213-65-9)			
CERCLA RQ	1 lb		
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard			

#### 15.2. International regulations

#### CANADA

EXPANDED POPS PESTICIDES CALIBRATION SOLUTION CS3 (UNLABELED/13C, 99%) IN NONANE/ISOOCTANE

Listed on the Canadian DSL (Domestic Substances List)

#### HEXACHLOROBENZENE (13C6, 99%) (118-74-1)

Listed on the Canadian DSL (Domestic Substances List)

#### **HEXACHLOROBENZENE UNLABELED (118-74-1)**

Listed on the Canadian DSL (Domestic Substances List)

#### **PENTACHLOROBENZENE UNLABELED (608-93-5)**

Listed on the Canadian DSL (Domestic Substances List)

#### ALDRIN UNLABELED (309-00-2)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### 4,4'-DDT (RING-13C12, 99%) (50-29-3)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### 2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### **DIELDRIN UNLABELED (60-57-1)**

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### **ENDRIN UNLABELED (72-20-8)**

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### 4,4'-DDT UNLABELED (50-29-3)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### N-NONANE UNLABELED (111-84-2)

Listed on the Canadian DSL (Domestic Substances List)

#### **ISOOCTANE UNLABELED (540-84-1)**

Listed on the Canadian DSL (Domestic Substances List)

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#### ALPHA-HCH (ALPHA-BHC) (13C6, 99%) (319-84-6)

Listed on the Canadian NDSL (Non-Domestic Substances List)

#### LINDANE UNLABELED (58-89-9)

Listed on the Canadian DSL (Domestic Substances List)

2,3',4',5-TETRACB (PCB-70) (13C12, 99%) (208263-81-4)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

4,4'-DICB (PCB-15) (13C12, 99%) (208263-67-6)

Listed on the Canadian DSL (Domestic Substances List)

MIREX UNLABELED (2385-85-5)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

ALPHA-BHC UNLABELED (319-84-6)

Listed on the Canadian NDSL (Non-Domestic Substances List)

#### DELTA-BHC UNLABELED (319-86-8)

Listed on the Canadian NDSL (Non-Domestic Substances List)

**HEPTACHLOR UNLABELED (76-44-8)** 

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### TRANS-NONACHLOR UNLABELED (39765-80-5)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### CIS-NONACHLOR UNLABELED (5103-73-1)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### **CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3)**

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### TRANS-HEPTACHLOR EPOXIDE UNLABELED (28044-83-9)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

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#### TRANS-CHLORDANE (GAMMA) UNLABELED (5103-74-2)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### 2,4'-DDD UNLABELED (53-19-0)

Listed on the Canadian DSL (Domestic Substances List)

2,4'-DDE UNLABELED (3424-82-6)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

4,4'-DDD UNLABELED (72-54-8)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### **BETA-BHC UNLABELED (319-85-7)**

Listed on the Canadian NDSL (Non-Domestic Substances List)

#### OXYCHLORDANE UNLABELED (27304-13-8)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### **KEPONE (CHLORDECONE) UNLABELED (143-50-0)**

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### **ENDOSULFAN I UNLABELED (959-98-8)**

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### 4,4'-DDE UNLABELED (72-55-9)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### ENDOSULFAN II UNLABELED (33213-65-9)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### National regulations

#### HEXACHLOROBENZENE (13C6, 99%) (118-74-1)

Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### HEXACHLOROBENZENE UNLABELED (118-74-1)

Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on INSQ (Mexican National Inventory of Chemical Substances)

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#### **PENTACHLOROBENZENE UNLABELED (608-93-5)**

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### ALDRIN UNLABELED (309-00-2)

Listed on IARC (International Agency for Research on Cancer) Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 4,4'-DDT (RING-13C12, 99%) (50-29-3)

Listed on IARC (International Agency for Research on Cancer)

Listed as carcinogen on NTP (National Toxicology Program)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

CAUTION: This material is supplied for research and development purposes subject to the R&D exemption under TSCA, 40 CFR 720.36, and must meet the requirements of the exemption, including supervision by a "technically qualified individual" as defined by 40 CFR 720.3(ee). The use of this material for "commercial purposes" as defined by 40 CFR 720.3(r) is not permitted in the United States.

#### DIELDRIN UNLABELED (60-57-1)

Listed on IARC (International Agency for Research on Cancer) Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### ENDRIN UNLABELED (72-20-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 4,4'-DDT UNLABELED (50-29-3)

Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on INSQ (Mexican National Inventory of Chemical Substances)

**ISOOCTANE UNLABELED (540-84-1)** 

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### ALPHA-HCH (ALPHA-BHC) (13C6, 99%) (319-84-6)

Listed as carcinogen on NTP (National Toxicology Program)

#### LINDANE UNLABELED (58-89-9)

Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### MIREX UNLABELED (2385-85-5)

Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on INSQ (Mexican National Inventory of Chemical Substances)

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#### ALPHA-BHC UNLABELED (319-84-6)

Listed as carcinogen on NTP (National Toxicology Program)

#### **HEPTACHLOR UNLABELED (76-44-8)**

Listed on IARC (International Agency for Research on Cancer) Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 4,4'-DDD UNLABELED (72-54-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### BETA-BHC UNLABELED (319-85-7)

Listed as carcinogen on NTP (National Toxicology Program)

#### **KEPONE (CHLORDECONE) UNLABELED (143-50-0)**

Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### **15.3. US State regulations**

EXPANDED POPS PESTICIDES CALIBRATION SOLUTION CS3 (UNLABELED/13C, 99%) IN NONANE/ISOOCTANE				
State or local regulations       U.S New Jersey - Right to Know Hazardous Substance List         U.S Massachusetts - Right To Know List				
U.S Pennsylvania - RTK (Right to Know) List				

HEXACHLOROBENZENE (13C6, 99%) (118-74-1)						
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	Proposition 65 -	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)	
Yes	Yes	Yes	Yes	0.4 µg/day		

HEXACHLOROBENZENE UNLABELED (118-74-1)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	Yes	Yes	Yes	0.4 µg/day	

ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

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ALDRIN UNLABELED (309-00-2)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	0.04 µg/day	

DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabeled))							
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)		
Yes	No	No	No				

4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	Yes	Yes	Yes					

2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	Proposition 65 -	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
No	Yes	Yes	Yes					

4,4'-DDT (RING-13C12, 99%) (50-29-3)								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	Yes	Yes	Yes	2 µg/day (DDT. DDE. DDD in combination)				

ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
No	Yes	Yes	Yes					

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2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	Proposition 65 -			Maximum allowable dose level (MADL)			
No	Yes	Yes	Yes					

DIELDRIN UNLABELED (60-57-1)								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	No	No	No	0.04 µg/day				

ENDRIN UNLABELED (72-20-8)								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
No	Yes	Yes	Yes					

4,4'-DDT UNLABELED (50-29-3)								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	Yes	Yes	Yes	2 μg/day (DDT. DDE. DDD in combination)				

DELTA-BHC (13C6, 99%) (319-86-8 (Unlabeled))								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
No	Yes	Yes	Yes					

MIREX (13C10, 98%) (2385-85-5 (Unlabeled))								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	Proposition 65 -	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	No	No	No					

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BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))							
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)		
Yes	No	No	No				

CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))							
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)		
Yes	No	No	No				

HEPTACHLOR (13C10, 99%) (76-44-8 (Unlabeled))								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female		No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	Yes	Yes	Yes					

KEPONE (CHLORDECONE) (13C10, 99%) (143-50-0 (Unlabeled))								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female		No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	Yes	Yes	Yes					

ALPHA-HCH (ALPHA-BHC) (13C6, 99%) (319-84-6)								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	No	No	No	0.3 µg/day				

4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabeled))								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	No	No	No					

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LINDANE UNLABELED (58-89-9)								
U.S California - Proposition 65 - Carcinogens List	Proposition 65 -	Proposition 65 -	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	No	No	No	0.6 µg/day				

2,3',4',5-TETRACB (PCB-70) (13C12, 99%) (208263-81-4)								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	Yes	Yes	No					

4,4'-DICB (PCB-15) (13C12, 99%) (208263-67-6)								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	Yes	Yes	Yes					

MIREX UNLABELED (2385-85-5)								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	No	No	No	0.04 µg/day				

ALPHA-BHC UNLABELED (319-84-6)								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	Proposition 65 -		No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	No	No	No	0.3 μg/day				

HEPTACHLOR UNLABELED (76-44-8)								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)			
Yes	Yes	Yes	Yes	0.2 μg/day				

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CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3)							
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	Proposition 65 -			Maximum allowable dose level (MADL)		
Yes	No	No	No	0.08 µg/day			

TRANS-CHLORDANE (GAMMA) UNLABELED (5103-74-2)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

4,4'-DDD UNLABELEI	D (72-54-8)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	2 μg/day (DDT. DDE. DDD in combination)	

BETA-BHC UNLABELED (319-85-7)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No	0.5 µg/day	

<b>KEPONE (CHLORDEC</b>	KEPONE (CHLORDECONE) UNLABELED (143-50-0)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	Yes	Yes	Yes	0.04 µg/day	

LINDANE (13C6, 99%)	LINDANE (13C6, 99%) (58-89-9 (Unlabeled))					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)	
No	Yes	Yes	Yes			

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4,4'-DDE UNLABELED	4,4'-DDE UNLABELED (72-55-9)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	Yes	Yes	Yes	2 μg/day (DDT. DDE. DDD in combination)	

Component	State or local regulations
HEXACHLOROBENZENE (13C6, 99%)(118-74-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
HEXACHLOROBENZENE UNLABELED(118-74-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
PENTACHLOROBENZENE UNLABELED(608-93-5)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
ALDRIN UNLABELED(309-00-2)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
4,4'-DDT (RING-13C12, 99%)(50-29-3)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
DIELDRIN UNLABELED(60-57-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
ENDRIN UNLABELED(72-20-8)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
4,4'-DDT UNLABELED(50-29-3 )	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
N-NONANE UNLABELED(111-84-2)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Massachusetts - Right To Know List; U.S Pennsylvania - RTK (Right to Know) List
ISOOCTANE UNLABELED(540-84-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
ALPHA-HCH (ALPHA-BHC) (13C6, 99%)(319-84-6)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
LINDANE UNLABELED(58-89-9)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
4,4'-DICB (PCB-15) (13C12, 99%)(208263-67-6)	U.S Pennsylvania - RTK (Right to Know) List; U.S New Jersey - Right to Know Hazardous Substance List
MIREX UNLABELED(2385-85-5)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
ALPHA-BHC UNLABELED(319-84-6 )	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
DELTA-BHC UNLABELED(319-86-8)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
HEPTACHLOR UNLABELED(76-44-8)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

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Component	State or local regulations
CIS-HEPTACHLOR EPOXIDE UNLABELED(1024- 57-3 )	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
4,4'-DDD UNLABELED(72-54-8)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
BETA-BHC UNLABELED(319-85-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
KEPONE (CHLORDECONE) UNLABELED(143-50-0)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
ENDOSULFAN I UNLABELED(959-98-8)	U.S Massachusetts - Right To Know List; U.S Pennsylvania - RTK (Right to Know) List
4,4'-DDE UNLABELED(72-55-9)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
ENDOSULFAN II UNLABELED(33213-65-9)	U.S Massachusetts - Right To Know List; U.S Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date

: 09/08/2023

Other information

09/06/2023

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of H-ph	Full text of H-phrases		
H225	Highly flammable liquid and vapor		
H226	Flammable liquid and vapor		
H228	Flammable solid		
H300	Fatal if swallowed		
H301	Toxic if swallowed		
H302	Harmful if swallowed		
H304	May be fatal if swallowed and enters airways		
H310	Fatal in contact with skin		
H311	Toxic in contact with skin		
H312	Harmful in contact with skin		
H315	Causes skin irritation		
H319	Causes serious eye irritation		
H330	Fatal if inhaled		
H332	Harmful if inhaled		
H335	May cause respiratory irritation		

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Full text of H	I-phrases
H336	May cause drowsiness or dizziness
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H362	May cause harm to breast-fed children
H370	Causes damage to organs
H371	May cause damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.