

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 05/10/2015 Revision date: 05/03/2020 Supersedes: 05/10/2015 Version: 2.0

ES-5465

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixtures

Product name : EXEXPANDED POPS PESTICIDES CLEANUP SPIKE (13C,99%) 100 NG/ML IN

NONANE/ISOOCTANE

Product code : ES-5465

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

### 1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <a href="mailto:cilsales@isotope.com">cilsales@isotope.com</a> www.isotope.com

### **Emergency telephone number**

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

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
Aquatic Acute 1 H400

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

### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R20 Xn; R65 Xi; R36/38 R10 R67 N; R50

Full text of R-phrases: see section 16

### **GHS-US** classification

Flam. Liq. 3 H226
Acute Tox. 4 (Inhalation) H332
Skin Irrit. 2 H315
Eye Irrit. 2A H319
STOT SE 3 H336
Asp. Tox. 1 H304

06/03/2020 EN (English US) 1/29

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Aquatic Acute 1 H400

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

Central Nervous System.

#### 2.2. **Label elements**

### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)









Danger

Signal word (CLP) Hazardous ingredients

: N-NONANE UNLABELED Hazard statements (CLP)

: H226 - Flammable liquid and vapor H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H400 - Very toxic to aquatic life

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Precautionary statements (CLP)

smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P261 - Avoid breathing fume, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

### **GHS-US** labeling

Hazard pictograms (GHS-US)









Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H226 - Flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eve irritation

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H400 - Very toxic to aquatic life

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking. Precautionary statements (GHS-US)

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P261 - Avoid breathing fume, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P301+P310 - If swallowed: Immediately call a poison center or doctor

P302+P352 - If on skin: Wash with plenty of water

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

06/03/2020 EN (English US) 2/29

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P312 - Call a poison center or doctor if you feel unwell

P321 - Specific treatment (see Hazard pictograms (CLP) on this label)

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water

spray to extinguish. P391 - Collect spillage.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to Comply with applicable regulations

### 2.3. Other hazards

No additional information available

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

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
N-NONANE UNLABELED	(CAS-No.) 111-84-2 (EC-No.) 203-913-4	99.903272	R10 Xn; R20 Xn; R65 Xi; R36/38 R67
ISOOCTANE UNLABELED	(CAS-No.) 540-84-1 (EC-No.) 208-759-1 (EC Index-No.) 601-009-00-8 (REACH-no) 01-2119457965-22	0.09638	Xi; R38 N; R50/53 R67 F; R11 Xn; R65
CIS-NONACHLOR (13C10, 98%)	(CAS-No.) 5103-73-1 (Unlabeled)	0.000014	N; R50/53
KEPONE (CHLORDECONE) (13C10, 99%)	(CAS-No.) 143-50-0 (Unlabeled) (EC-No.) 205-601-3 (EC Index-No.) 606-019-00-6	0.000014	Carc.Cat.3; R40 T; R24/25 N; R50/53
OXYCHLORDANE (13C10, 99%)	(CAS-No.) 27304-13-8 (Unlabeled)	0.000014	Carc.Cat.3; R40 T; R25 N; R50/53
DIELDRIN (13C12, 98-99%)	(CAS-No.) 60-57-1 (Unlabeled) (EC-No.) 200-484-5 (EC Index-No.) 602-049-00-9	0.000014	Carc.Cat.3; R40 T+; R27 T; R25 N; R50/53 R48
4,4'-DDE (RING-13C12, 99%)	(CAS-No.) 72-55-9 (Unlabeled) (EC-No.) 200-784-6 (Unlabeled)	0.000014	Xn; R22 Carc.Cat.3; R40 N; R50/53
ENDOSULFAN I (13C9, 99%)	(CAS-No.) 959-98-8 (Unlabeled) (EC-No.) (EC Index-No.)	0.000014	T+; R26/28 N; R50/53 Xn; R21
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%)	(CAS-No.) 33213-65-9 (Unlabeled) (EC-No.) (EC Index-No.)	0.000014	T; R25 N; R50/53
2,4'-DDT (RING-13C12, 99%)	(CAS-No.) 789-02-6 (Unlabeled) (EC-No.) 212-332-5 (Unlabeled)	0.000014	N; R50/53 Xn; R22 Xi; R36/37/38 T; R48/25 Carc.Cat.1; R45
TRANS-NONACHLOR (13C10, 98%)	(CAS-No.) 39765-80-5 (Unlabeled)	0.000014	Xn; R22 Xi; R36/37/38 N; R50/53

06/03/2020 EN (English US) 3/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	Classification according to Directive 67/548/EEC	
BETA-BHC (13C6, 99%)	(CAS-No.) 319-85-7 (Unlabeled) (EC-No.) 206-271-3 (Unlabeled) (EC Index-No.) 602-042-00-0 (Unlabeled)	0.000014	Carc.Cat.3; R40 T; R25 N; R51/53 Xn; R21	
CIS-HEPTACHLOR EPOXIDE (13C10, 99%)	(CAS-No.) 1024-57-3 (Unlabeled) (EC-No.) 213-831-0 (Unlabeled) (EC Index-No.) 602-063-00-5 (Unlabeled)	0.000014	Carc.Cat.3; R40 T+; R28 N; R50/53 R48	
DELTA-BHC (13C6, 99%)	(CAS-No.) 319-86-8 (Unlabeled) (EC-No.) 206-272-9 (Unlabeled) (EC Index-No.) 602-042-00-0 (Unlabeled)	0.000014	Xn; R22 N; R51/53	
HEXACHLOROBENZENE (13C6, 99%)	(CAS-No.) 93952-14-8 (EC-No.) 204-273-9 (Unlabeled) (EC Index-No.) 602-065-00-6 (Unlabeled)	0.000014	Xi; R36 N; R50/53 Xn; R48/22	
ALDRIN (13C12, 99%)	(CAS-No.) 309-00-2 (Unlabeled) (EC-No.) 206-215-8 (Unlabeled) (EC Index-No.) 602-048-00-3 (Unlabeled)	0.000014	Carc.Cat.3; R40 T+; R27/28 T; R25 N; R50/53 R48	
PENTACHLOROBENZENE (13C6, 99%)	(CAS-No.) 608-93-5 (Unlabeled) (EC-No.) 210-172-0 (Unlabeled) (EC Index-No.) 602-074-00-5 (Unlabeled)	0.000014	F; R11 Xn; R22 N; R50/53	
HEPTACHLOR (13C10, 99%)	(CAS-No.) 76-44-8 (Unlabeled) (EC-No.) 200-962-3 (Unlabeled) (EC Index-No.) 602-046-00-2 (Unlabeled)	0.000014	Carc.Cat.3; R40 T+; R27/28 N; R50/53	
4,4'-DDT (RING-13C12, 99%)	(CAS-No.) 104215-84-1 (EC-No.) 200-024-3 (Unlabeled) (EC Index-No.) 602-045-00-7 (Unlabeled)	0.000014	Carc.Cat.3; R40 T; R25 N; R50/53	
ENDRIN (13C12, 99%)	(CAS-No.) 72-20-8 (Unlabeled) (EC-No.) 200-775-7 (EC Index-No.) 602-051-00-X	0.000014	T+; R28 T; R24 N; R50/53	
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	(CAS-No.) 5103-74-2 (Unlabeled) (EC-No.) 225-826-0	0.000014	Carc.Cat.3; R40 Xn; R22 N; R50	
2,4'-DDD (RING-13C12, 99%)	(CAS-No.) 53-19-0 (Unlabeled) (EC-No.) 200-166-6 (Unlabeled)	0.000014	Carc.Cat.2; R45	
LINDANE (13C6, 99%)	(CAS-No.) 58-89-9 (Unlabeled) (EC-No.) 200-401-2 (EC Index-No.) 602-043-00-6	0.000014	T; R25 Xn; R20/21 Xn; R48/22 R64 N; R50/53	
2,4'-DDE (RING-13C12, 99%)	(CAS-No.) 3424-82-6 (Unlabeled) (EC-No.) 222-318-0	0.000014	Carc.Cat.3; R40 Xn; R22 N; R50/53	
ALPHA-BHC (13C6, 99%)	(CAS-No.) 319-84-6 (Unlabeled) (EC-No.) 206-270-8 (EC Index-No.) 602-042-00-0	0.000014	Carc.Cat.3; R40 T; R25 Xn; R21 N; R50/53	
4,4'-DDD (RING-13C12, 99%)	(CAS-No.) 72-54-8 (Unlabeled) (EC-No.) 200-783-0 (Unlabeled)	0.000014	Carc.Cat.3; R40 T; R25 Xn; R21 N; R50/53	
MIREX (13C10, 98%)	(CAS-No.) 2385-85-5 (Unlabeled) (EC-No.) 219-196-6 (Unlabeled) (EC Index-No.) 602-077-00-1 (Unlabeled)	0.000014	Carc.Cat.3; R40 Repr.Cat.3; R62 Repr.Cat.3; R63 T; R24/25 N; R50/53	

06/03/2020 EN (English US) 4/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-NONANE UNLABELED	(CAS-No.) 111-84-2 (EC-No.) 203-913-4	99.903272	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
ISOOCTANE UNLABELED	(CAS-No.) 540-84-1 (EC-No.) 208-759-1 (EC Index-No.) 601-009-00-8 (REACH-no) 01-2119457965-22	0.09638	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CIS-NONACHLOR (13C10, 98%)	(CAS-No.) 5103-73-1 (Unlabeled)	0.000014	Acute Tox. 4 (Oral), H302 Aquatic Chronic 1, H410
KEPONE (CHLORDECONE) (13C10, 99%)	(CAS-No.) 143-50-0 (Unlabeled) (EC-No.) 205-601-3 (EC Index-No.) 606-019-00-6	0.000014	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
OXYCHLORDANE (13C10, 99%)	(CAS-No.) 27304-13-8 (Unlabeled)	0.000014	Acute Tox. 4 (Oral), H302
DIELDRIN (13C12, 98-99%)	(CAS-No.) 60-57-1 (Unlabeled) (EC-No.) 200-484-5 (EC Index-No.) 602-049-00-9	0.000014	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
4,4'-DDE (RING-13C12, 99%)	(CAS-No.) 72-55-9 (Unlabeled) (EC-No.) 200-784-6 (Unlabeled)	0.000014	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ENDOSULFAN I (13C9, 99%)	(CAS-No.) 959-98-8 (Unlabeled) (EC-No.) (EC Index-No.)	0.000014	Acute Tox. 2 (Oral), H300 Acute Tox. 4 (Dermal), H312 Acute Tox. 2 (Inhalation:dust,mist), H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%)	(CAS-No.) 33213-65-9 (Unlabeled) (EC-No.) (EC Index-No.)	0.000014	Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
2,4'-DDT (RING-13C12, 99%)	(CAS-No.) 789-02-6 (Unlabeled) (EC-No.) 212-332-5 (Unlabeled)	0.000014	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
TRANS-NONACHLOR (13C10, 98%)	(CAS-No.) 39765-80-5 (Unlabeled)	0.000014	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
BETA-BHC (13C6, 99%)	(CAS-No.) 319-85-7 (Unlabeled) (EC-No.) 206-271-3 (Unlabeled) (EC Index-No.) 602-042-00-0 (Unlabeled)	0.000014	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) (EC-No.) 213-831-0 (Unlabeled) (EC Index-No.) 602-063-00-5 (Unlabeled)	0.000014	Acute Tox. 2 (Oral), H300 Carc. 2, H351 STOT RE 2, H373 Aquatic Chronic 1, H410
DELTA-BHC (13C6, 99%)	(CAS-No.) 319-86-8 (Unlabeled) (EC-No.) 206-272-9 (Unlabeled) (EC Index-No.) 602-042-00-0 (Unlabeled)	0.000014	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HEXACHLOROBENZENE (13C6, 99%)	(CAS-No.) 93952-14-8 (EC-No.) 204-273-9 (Unlabeled) (EC Index-No.) 602-065-00-6 (Unlabeled)	0.000014	Carc. 1A, H350 STOT RE 1, H372 Aquatic Chronic 1, H410

06/03/2020 EN (English US) 5/29

# Safety Data Sheet

Name

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

%

Classification according to

**Product identifier** 

Product identifier	70	Regulation (EC) No. 1272/2008 [CLP]
(CAS-No.) 309-00-2 (Unlabeled) (EC-No.) 206-215-8 (Unlabeled) (EC Index-No.) 602-048-00-3 (Unlabeled)	0.000014	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 1, H410
(CAS-No.) 608-93-5 (Unlabeled) (EC-No.) 210-172-0 (Unlabeled) (EC Index-No.) 602-074-00-5 (Unlabeled)	0.000014	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(CAS-No.) 76-44-8 (Unlabeled) (EC-No.) 200-962-3 (Unlabeled) (EC Index-No.) 602-046-00-2 (Unlabeled)	0.000014	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 Aquatic Chronic 1, H410
(CAS-No.) 104215-84-1 (EC-No.) 200-024-3 (Unlabeled) (EC Index-No.) 602-045-00-7 (Unlabeled)	0.000014	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 1, H410
(CAS-No.) 72-20-8 (Unlabeled) (EC-No.) 200-775-7 (EC Index-No.) 602-051-00-X	0.000014	Acute Tox. 1 (Oral), H300 Acute Tox. 2 (Dermal), H310 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
(CAS-No.) 5103-74-2 (Unlabeled) (EC-No.) 225-826-0	0.000014	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=10)
(CAS-No.) 53-19-0 (Unlabeled) (EC-No.) 200-166-6 (Unlabeled)	0.000014	Carc. 1B, H350
(CAS-No.) 58-89-9 (Unlabeled) (EC-No.) 200-401-2 (EC Index-No.) 602-043-00-6	0.000014	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
(CAS-No.) 3424-82-6 (Unlabeled) (EC-No.) 222-318-0	0.000014	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(CAS-No.) 319-84-6 (Unlabeled) (EC-No.) 206-270-8 (EC Index-No.) 602-042-00-0	0.000014	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(CAS-No.) 72-54-8 (Unlabeled) (EC-No.) 200-783-0 (Unlabeled)	0.000014	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
(CAS-No.) 2385-85-5 (Unlabeled) (EC-No.) 219-196-6 (Unlabeled) (EC Index-No.) 602-077-00-1 (Unlabeled)	0.000014	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Repr. 2, H361 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Product identifier	%	GHS-US classification
(CAS-No.) 111-84-2	99.903272	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
(CAS-No.) 540-84-1	0.09638	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
(CAS-No.) 5103-73-1 (Unlabeled)	0.000014	Acute Tox. 4 (Oral), H302 Aquatic Chronic 1, H410
(CAS-No.) 143-50-0 (Unlabeled)	0.000014	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
	(EC-No.) 206-215-8 (Unlabeled) (EC Index-No.) 602-048-00-3 (Unlabeled) (EC-No.) 210-172-0 (Unlabeled) (EC Index-No.) 602-074-00-5 (Unlabeled) (EC Index-No.) 602-074-00-5 (Unlabeled) (EC Index-No.) 602-046-00-2 (Unlabeled) (EC Index-No.) 602-046-00-2 (Unlabeled) (EC Index-No.) 602-045-00-7 (Unlabeled) (EC Index-No.) 602-045-00-7 (Unlabeled) (EC-No.) 200-024-3 (Unlabeled) (EC-No.) 200-775-7 (EC Index-No.) 602-051-00-X  (CAS-No.) 5103-74-2 (Unlabeled) (EC-No.) 200-166-6 (Unlabeled) (EC-No.) 200-166-6 (Unlabeled) (EC-No.) 200-401-2 (EC Index-No.) 602-043-00-6  (CAS-No.) 3424-82-6 (Unlabeled) (EC-No.) 200-401-2 (EC Index-No.) 602-043-00-6  (CAS-No.) 319-84-6 (Unlabeled) (EC-No.) 206-270-8 (EC Index-No.) 602-042-00-0  (CAS-No.) 72-54-8 (Unlabeled) (EC-No.) 200-783-0 (Unlabeled) (EC-No.) 219-196-6 (Unlabeled)	(CAS-No.) 309-00-2 (Unlabeled) (EC-No.) 206-215-8 (Unlabeled) (EC Index-No.) 602-048-00-3 (Unlabeled) (EC Index-No.) 602-078-00-3 (Unlabeled) (EC Index-No.) 602-074-00-5 (Unlabeled) (EC Index-No.) 602-074-00-5 (Unlabeled) (EC Index-No.) 602-074-00-5 (Unlabeled) (EC Index-No.) 602-074-00-5 (Unlabeled) (EC Index-No.) 602-046-00-2 (Unlabeled) (EC Index-No.) 602-045-00-7 (Unlabeled) (EC Index-No.) 602-045-00-7 (Unlabeled) (EC-No.) 200-024-3 (Unlabeled) (EC-No.) 200-075-7 (EC Index-No.) 602-051-00-X (CAS-No.) 5103-74-2 (Unlabeled) (EC-No.) 200-0766-6 (Unlabeled) (EC-No.) 200-166-6 (Unlabeled) (EC-No.) 200-166-6 (Unlabeled) (EC-No.) 200-0766-6 (Unlabeled) (EC-No.) 200-401-2 (EC Index-No.) 602-043-00-6  (CAS-No.) 3424-82-6 (Unlabeled) (EC-No.) 202-318-0  (CAS-No.) 319-84-6 (Unlabeled) (EC-No.) 202-370-8 (EC Index-No.) 602-042-00-0  (CAS-No.) 72-54-8 (Unlabeled) (EC-No.) 200-770-8 (EC Index-No.) 602-077-00-1 (Unlabeled) (EC-No.) 200-770-8 (EC Index-No.) 602-077-00-1 (Unlabeled) (EC-No.) 219-196-6 (Unlabeled)

06/03/2020 EN (English US) 6/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS-US classification
OXYCHLORDANE (13C10, 99%)	(CAS-No.) 27304-13-8 (Unlabeled)	0.000014	Acute Tox. 4 (Oral), H302
DIELDRIN (13C12, 98-99%)	(CAS-No.) 60-57-1 (Unlabeled)	0.000014	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
4,4'-DDE (RING-13C12, 99%)	(CAS-No.) 72-55-9 (Unlabeled)	0.000014	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ENDOSULFAN I (13C9, 99%)	(CAS-No.) 959-98-8 (Unlabeled)	0.000014	Acute Tox. 1 (Oral), H300 Acute Tox. 4 (Dermal), H312 Acute Tox. 1 (Inhalation), H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%)	(CAS-No.) 33213-65-9 (Unlabeled)	0.000014	Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4'-DDT (RING-13C12, 99%)	(CAS-No.) 789-02-6 (Unlabeled)	0.000014	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
TRANS-NONACHLOR (13C10, 98%)	(CAS-No.) 39765-80-5 (Unlabeled)	0.000014	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
BETA-BHC (13C6, 99%)	(CAS-No.) 319-85-7 (Unlabeled)	0.000014	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)	0.000014	Acute Tox. 2 (Oral), H300 Carc. 2, H351 STOT RE 2, H373 Aquatic Chronic 1, H410
DELTA-BHC (13C6, 99%)	(CAS-No.) 319-86-8 (Unlabeled)	0.000014	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HEXACHLOROBENZENE (13C6, 99%)	(CAS-No.) 93952-14-8	0.000014	Carc. 1B, H350 STOT RE 1, H372 Aquatic Chronic 1, H410
ALDRIN (13C12, 99%)	(CAS-No.) 309-00-2 (Unlabeled)	0.000014	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 1, H410
PENTACHLOROBENZENE (13C6, 99%)	(CAS-No.) 608-93-5 (Unlabeled)	0.000014	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HEPTACHLOR (13C10, 99%)	(CAS-No.) 76-44-8 (Unlabeled)	0.000014	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 Aquatic Chronic 1, H410
4,4'-DDT (RING-13C12, 99%)	(CAS-No.) 104215-84-1	0.000014	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)	0.000014	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)	0.000014	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400

06/03/2020 EN (English US) 7/29

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	GHS-US classification
2,4'-DDD (RING-13C12, 99%)	(CAS-No.) 53-19-0 (Unlabeled)	0.000014	Carc. 1B, H350
LINDANE (13C6, 99%)	(CAS-No.) 58-89-9 (Unlabeled)	0.000014	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
2,4'-DDE (RING-13C12, 99%)	(CAS-No.) 3424-82-6 (Unlabeled)	0.000014	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ALPHA-BHC (13C6, 99%)	(CAS-No.) 319-84-6 (Unlabeled)	0.000014	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)	0.000014	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)	0.000014	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of R- and H- phrases: see section 16

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.

First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. If not breathing give

artificial respiration. Get medical advice/attention.

First-aid measures after skin contact : Wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get

medical advice/attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after inhalation : Harmful if inhaled.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

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

## 5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor.

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

## 5.3. Advice for firefighters

Firefighting instructions : Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

06/03/2020 EN (English US) 8/29

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 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

Prevent entry to sewers and public waters. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

For containment

: Dike and contain spill. Dispose as hazardous waste. Comply with local regulations for 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**

#### 7.1. Precautions for safe handling

Additional hazards when processed

Avoid all contact with skin, eyes, or clothing. Keep away from sources of ignition - No smoking.
 Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer). Take precautionary measures against static discharges.

Precautions for safe handling

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.

Hygiene measures

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures

: Store in a well-ventilated place. Keep container tightly closed. Keep dry. Ground/bond container and receiving equipment.

Storage conditions

: Store at room temperature away from light and moisture.

### 7.3. Specific end use(s)

No additional information available

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

## 8.1. Control parameters

N-NONANE UNLABELED (11	1-84-2)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	CNS impair
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1050 mg/m³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm USA. NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH)	Central Nervous System impairment
USA OSHA	OSHA PEL (TWA) (mg/m³)	1050 mg/m³ USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	1050 California permissible exposure limits for chemical contaminants.
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm California permissible exposure limits for chemical contaminants.

06/03/2020 EN (English US) 9/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DIELDRIN (13C12, 98-99%) (		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	0.25 mg/m³ Liver damage. Central Nervous System convulsion. Danger of cutaneous absorption
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.25 mg/m³ Skin notation
HEXACHLOROBENZENE (13	3C6, 99%) (93952-14-8)	
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	0.002 mg/m³ 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	OSHA PEL (Ceiling) (mg/m³)	0.002 mg/m³ California permissible exposure limits for chemical contaminants (Title 8, Article 107) - Skin
ALDRIN (13C12, 99%) (309-0	0-2 (Unlabeled))	I .
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	0.05 mg/m³ ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Central Nervous System impairment Liver damage Kidney damage Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.25 mg/m³ USA. NIOSH Recommended Exposure Limits.
USA NIOSH	Remark (NIOSH)	Potential Occupational Carcinogen See Appendix A Potential for dermal absorption
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.25 mg/m³ USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
USA OSHA	OSHA PEL (STEL) (mg/m³)	0.25 mg/m³ California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	Remark (OSHA)	Skin designation
HEPTACHLOR (13C10, 99%)	(76-44-8 (Unlabeled))	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.5 mg/m³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH)	Potential Occupational Carcinogen. See Appendix A. Potential for dermal absorption.
USA OSHA	OSHA PEL (TWA) (mg/m³)	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)
4,4'-DDT (RING-13C12, 99%)	(104215-84-1)	
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m³ Liver damage. Confirmed animal carcinogen with unknown relevance to humans.
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.5 mg/m³ Potential Occupational Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³ Skin designation
ENDRIN (13C12, 99%) (72-20	-8 (Unlabeled))	
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	0.1 mg/m³ Central Nervous System impairment, Headache, Liver damage
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.1 mg/m³ Danger of cutaneous absorption, not classifiable a a human carcinogen
LINDANE (13C6, 99%) (58-89	-9 (Unlabeled))	
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m <sup>3</sup>
ISOOCTANE UNLABELED (5	i40-84-1)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	300.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Upper Respiratory Tract irritation
3.2. Exposure controls		

Appropriate engineering controls

06/03/2020 EN (English US) 10/29

<sup>:</sup> Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Personal protective equipment : Protective clothing. Protective goggles. Self-contained breathing apparatus. Gloves.









Materials for protective clothing : Wear suitable protective clothing and gloves. Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear eye protection. Chemical goggles or face shield with safety glasses.

Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.

: No data available

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.

Environmental exposure controls : Avoid release to the environment.

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

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid
Color : Colorless

Odor : No data available Odor threshold : No data available : No data available Relative evaporation rate (butyl acetate=1) No data available Melting point : No data available Freezing point : No data available Boiling point No data available Flash point No data available Auto-ignition temperature : No data available Decomposition temperature : No data available No data available Flammability (solid, gas) Vapor pressure No data available Relative vapor density at 20 °C : No data available Relative density : No data available No data available Solubility Log Pow No data available Log Kow : No data available Viscosity, kinematic : No data available Viscosity, dynamic No data available 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

**Explosion limits** 

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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

06/03/2020 EN (English US) 11/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## 10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

Acute toxicity : Inhalation: Harmful if inhaled.

Acute toxicity	: innaiation: Harmtui ir innaied.
	NUP SPIKE (13C,99%) 100 NG/ML IN NONANE/ISOOCTANE
LC50 inhalation rat (mg/l)	23760 mg/m³ male - 4 h
LC50 inhalation rat (ppm)	3200 ppm/4h
ATE CLP (gases)	3200.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
N-NONANE UNLABELED (111-84-2)	
LC50 inhalation rat (mg/l)	23760 mg/m³ male - 4 h
ATE CLP (vapors)	11.000 mg/l/4h
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)
Additional information	: S. Typhimurium Result: negative
CIS-NONACHLOR (13C10, 98%) (5103-73	-1 (Unlabeled))
ATE CLP (oral)	500.000 mg/kg body weight
KEPONE (CHLORDECONE) (13C10, 99%	
LD50 oral rat	
LD50 dermal rabbit	91.3 mg/kg 345 mg/kg
	0 0
ATE CLP (oral) ATE CLP (dermal)	91.300 mg/kg body weight  345.000 mg/kg body weight
,	
OXYCHLORDANE (13C10, 99%) (27304-1	. "
LD50 oral rat	457 mg/kg
ATE CLP (oral)	457.000 mg/kg body weight
DIELDRIN (13C12, 98-99%) (60-57-1 (Unia	abeled))
LD50 dermal rabbit	250 mg/kg
LC50 inhalation rat (mg/l)	13 mg/m³ 4 h
ATE CLP (oral)	0.500 mg/kg body weight
ATE CLP (dermal)	250.000 mg/kg body weight
ATE CLP (vapors)	0.013 mg/l/4h
ATE CLP (dust, mist)	0.013 mg/l/4h
TRANS-NONACHLOR (13C10, 98%) (397	65-80-5 (Unlabeled))
LD50 oral rat	500 mg/kg
ATE CLP (oral)	500.000 mg/kg body weight
4,4'-DDE (RING-13C12, 99%) (72-55-9 (Ur	
LD50 oral rat	880 mg/kg
ATE CLP (oral)	880.000 mg/kg body weight
,	
BETA-BHC (13C6, 99%) (319-85-7 (Unlak	
LD50 oral rat	6000 mg/kg
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
2,4'-DDT (RING-13C12, 99%) (789-02-6 (U	
ATE CLP (oral)	100.000 mg/kg body weight
CIS-HEPTACHLOR EPOXIDE (13C10, 999	%) (1024-57-3 (Unlabeled))
LD50 oral rat	15 mg/kg
ATE CLP (oral)	15.000 mg/kg body weight
Additional information	LD50 Oral Mouse 39 mg/kg. LD50 Oral Rabbit 144 mg/kg
	95%) (13C9, 99%) (33213-65-9 (Unlabeled))
LD50 oral rat	240 mg/kg
ATE CLP (oral)	100.000 mg/kg body weight
, ,	
ENDOSULFAN I (13C9, 99%) (959-98-8 (U	
ATE CLP (oral)	5.000 mg/kg body weight

06/03/2020 EN (English US) 12/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5, 2012 / Rules and Regulations	
ENDOSULFAN I (13C9, 99%) (959-98-8 (Unlab	peled))
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (dust, mist)	0.050 mg/l/4h
HEXACHLOROBENZENE (13C6, 99%) (93952	-14-8)
LD50 oral rat	10000 mg/kg
LD50 oral	> 3000 mg/kg Guinea pig
LC50 inhalation rat (mg/l)	3600 mg/m³
ATE CLP (oral)	10000.000 mg/kg body weight
ATE CLP (vapors)	3.600 mg/l/4h
ATE CLP (dust, mist)	3.600 mg/l/4h
Remarks	Behavioral: Somnolence (general depressed activity). Gastrointestinal: Necrotic changes. Blood: Changes in erythrocyte (RBC) count.
Additional information	LD50 Oral - Cat - 800 mg/kg. LD50 Oral - Rabbit - 1,830 mg/kg. LD50 Oral Mouse - 1760 mg/kg. LD50 - Oral - Mammal - 1400 mg/kg
DELTA-BHC (13C6, 99%) (319-86-8 (Unlabele	d))
LD50 oral rat	1000 mg/kg
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
MIREX (13C10, 98%) (2385-85-5 (Unlabeled))	
LD50 oral rat	235 mg/kg
LD50 dermal rabbit	800 mg/kg
ATE CLP (oral)	235.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
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 CLP (oral)	39.000 mg/kg body weight
ATE CLP (dermal)	5.000 mg/kg body weight
HEPTACHLOR (13C10, 99%) (76-44-8 (Unlabe	eled))
LD50 oral rat	40 mg/kg
LD50 dermal rat	119 mg/kg
ATE CLP (oral)	40.000 mg/kg body weight
ATE CLP (dermal)	5.000 mg/kg body weight
4,4'-DDT (RING-13C12, 99%) (104215-84-1)	
LD50 oral rat	87 mg/kg
LD50 dermal rabbit	300 mg/kg Remarks: Behavioral:Tremor. Behavioral:Muscle weakness. Behavioral:Ataxia.
ATE CLP (oral)	87.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))	
LD50 oral rat	3 mg/kg
LD50 dermal rabbit	60 mg/kg
ATE CLP (oral)	3.000 mg/kg body weight
ATE CLP (dermal)	60.000 mg/kg body weight
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	) (5103-74-2 (Unlabeled))
LD50 oral rat	1100 mg/kg
ATE CLP (oral)	1100.000 mg/kg body weight
2,4'-DDD (RING-13C12, 99%) (53-19-0 (Unlabe	
LD50 oral rat	> 5000 mg/kg
2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unia	
LD50 oral rat	880 mg/kg
ATE CLP (oral)	880.000 mg/kg body weight
,	
PENTACHLOROBENZENE (13C6, 99%) (608-5 LD50 oral rat	1080 mg/kg Remarks: Behavioral:General anesthetic. Behavioral:Tremor.
LD50 dermal	> 2500 mg/kg - Rat
LD00 dcillidi	> 2000 mg/ng - Nat

06/03/2020 EN (English US) 13/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

PENTACHLOROBENZENE (13C6, 99%) (608-	93-5 (Unlabeled))
ATE CLP (oral)	500.000 mg/kg body weight
ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabele	ed))
LD50 oral rat	177 mg/kg
ATE CLP (oral)	177.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabo	eled))
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
LINDANE (13C6, 99%) (58-89-9 (Unlabeled))	
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
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 (mg/l)	> 33.52 mg/l/4h (OECD Test Guideline 403)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: May cause drowsiness or dizziness.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
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 after inhalation	: Harmful if inhaled.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.

# **SECTION 12: Ecological information**

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Ecology - general : Very toxic to aquatic life.

67 6					
EXEXPANDED POPS PESTICIDES CLEANUP SPIKE (13C,99%) 100 NG/ML IN NONANE/ISOOCTANE					
EC50 Daphnia 1 0.2 mg/l Daphnia magna (Water flea) - 48 h static test					
KEPONE (CHLORDECONE) (13C10, 99	9%) (143-50-0 (Unlabeled))				
LC50 fish 1	0.03 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h				
EC50 Daphnia 1	0.26 mg/l Daphnia magna (Water flea) - 48 h				
ErC50 (algae) 0.35 μg/l Chlorococcum sp 7 d					
DIELDRIN (13C12, 98-99%) (60-57-1 (Ur	nlabeled))				
LC50 fish 1	1.6 mg/l Carassius auratus (goldfish) - 96 h				
EC50 Daphnia 1	79.5 mg/l Daphnia magna (Water flea) - 48 h				
TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))					
EC50 Daphnia 1 0.022 mg/l Daphnia pulex (Water flea) - 48 h					
4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))					
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				

06/03/2020 EN (English US) 14/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

20, 2012 / Rules and Regulations				
4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabel	ed))			
LC50 fish 2	0.03 - 0.04 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h			
BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled)	1			
LC50 fish 1	1.6 mg/l Poecilia reticulata (guppy) - 96 h			
2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))				
LC50 fish 1	0.03 mg/l Other fish - 24 h			
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (10	24-57-3 (Unlabeled))			
LC50 fish 1	0.02 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h			
EC50 Daphnia 1	0.24 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 Daphnia 1	0.1 - 1 mg/l Daphnia magna (Water flea) - 48 h			
ENDOSULFAN I (13C9, 99%) (959-98-8 (Unlabo	aled))			
LC50 fish 1	0.2 µg/l Other fish - 21 d			
HEXACHLOROBENZENE (13C6, 99%) (93952- 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			
DELTA-BHC (13C6, 99%) (319-86-8 (Unlabeled				
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 Daphnia 1	2.6 mg/l Daphnia magna (Water flea) - 48 h			
ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))				
LC50 fish 1	0.01 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h			
EC50 Daphnia 1	0.03 mg/l Daphnia magna (Water flea) - 48 h			
HEPTACHLOR (13C10, 99%) (76-44-8 (Unlabel	ed))			
LC50 fish 1	0.007 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h			
EC50 Daphnia 1	0.078 mg/l Daphnia magna (Water flea) - 48 h			
·	otoro mga bapana a a a a a a a a a a a a a a a a a			
4,4'-DDT (RING-13C12, 99%) (104215-84-1)	0.01 mg/l Pimephales promelas (fathead minnow) - 96 h			
	0.01 mg/l Lepomis macrochirus (Bluegill) - 96.0 h			
LC50 other aquatic organisms 1	0.00108 mg/l Daphnia magna (Water flea) - 48 h			
EC50 Daphnia 1 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			
	113 mg/i Oricomyrichus mykiss (fambow trout) - 3 u			
ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))	0.004			
LC50 fish 1	< 0.001 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h			
EC50 Daphnia 1	>= 0.02 mg/l Daphnia pulex (Water flea) - 48 h			
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	· · · · · · · · · · · · · · · · · · ·			
LC50 fish 1	0.05 mg/l Lepomis macrochirus - 96 h			
PENTACHLOROBENZENE (13C6, 99%) (608-9	3-5 (Unlabeled))			
LC50 fish 1	0.247 mg/l - Pimephales promelas (fathead minnow)- 96.0 h			
ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled				
LC50 fish 1	0.12 mg/l Carassius auratus (Goldfish) - 48 h			
EC50 Daphnia 1	0.2 - 1.7 mg/l Daphnia magna (Water flea) - 48 h			
4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabel				
LC50 fish 1	0.04 - 0.05 mg/l - Lepomis macrochirus (Blueqill) - 96 h			
EC50 Daphnia 1	0.04 - 0.05 mg/l Daphnia pulex (Water flea) - 48 h			
·	o.o. mg/ Daprilla palox (water liea) - 40 II			
LINDANE (13C6, 99%) (58-89-9 (Unlabeled))	0.0 mm// Oranizara samila (Orani) 0.00 h			
LC50 fish 1	0.2 mg/l Cyprinus carpio (Carp) - 96 h			
EC50 Daphnia 1	0.8 - 6.5 mg/l Daphnia magna (Water flea) - 48 h			
ErC50 (algae)	4 mg/l 72 h			

06/03/2020 EN (English US) 15/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

LINDANIE (4000 000)) (50 00 0 00)					
LINDANE (13C6, 99%) (58-89-9 (Unlabeled))	0.050 mm/l Occarding the condition ( ) 1 mm ( ) 0.00 l				
NOEC chronic fish	0.056 mg/l Oncorhynchus mykiss (rainbow trout) - 3 d				
12.2. Persistence and degradability					
•					
2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))					
Persistence and degradability	May cause long-term adverse effects in the environment.				
2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlai	·				
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.				
4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabe	led))				
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.				
	way cause long-term adverse effects in the environment.				
12.3. Bioaccumulative potential					
N-NONANE UNLABELED (111-84-2)					
Log Pow	5.65				
Bioaccumulative potential	Indication of bioaccumulation.				
CIS-NONACHLOR (13C10, 98%) (5103-73-1 (U	nlabeled))				
Log Pow	2.794				
TRANS-NONACHLOR (13C10, 98%) (39765-80	-5 (Unlabeled))				
Log Pow	6.35				
•					
4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabel					
Bioconcentration factor (BCF REACH)	3.84 ug/l - Gambusia affinis (Mosquito fish) - 33 d				
Log Pow	12.037 6.51				
BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled)					
BCF fish 1	Cyprinus carpio (Carp) - 35 d - 0.05 mg/l				
Log Pow	3.78				
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (10					
Bioconcentration factor (BCF REACH)	14400				
Log Pow	5.4				
Bioaccumulative potential	Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d.				
ENDOSULFAN II (CHEMICAL PURITY >95%)	(13C9, 99%) (33213-65-9 (Unlabeled))				
BCF fish 1	0.0001 mg/l Other fish - 21 d				
Bioconcentration factor (BCF REACH)	9908				
ENDOSULFAN I (13C9, 99%) (959-98-8 (Unlab	eled))				
Bioconcentration factor (BCF REACH)	10994				
HEXACHLOROBENZENE (13C6, 99%) (93952-	14-8)				
Bioconcentration factor (BCF REACH)	22000				
Bioaccumulative potential	Bioaccumulation Pimephale promelas (fathead minnow) - 32 d - 0.0003 mg/l.				
MIREX (13C10, 98%) (2385-85-5 (Unlabeled))	in the state of th				
BCF fish 1	0.0012 mg/l Pimephales promelas (rainbow trout) - 32 d				
Bioconcentration factor (BCF REACH)	18100				
Log Pow	5.28				
	0.20				
ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))	0700				
Bioconcentration factor (BCF REACH)	3700				
Log Pow	6.5				
Bioaccumulative potential	Bioaccumulation: Leuciscus idus (Golden orfe) - 3 d.				
HEPTACHLOR (13C10, 99%) (76-44-8 (Unlabeled))					
BCF fish 1	0.00043 mg/l Pimephales promelas (fathead minnow) - 276 d				
Bioconcentration factor (BCF REACH)	23814				

06/03/2020 EN (English US) 16/29

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

4,4'-DDT (RING-13C12, 99%) (104215-84-1)				
BCF fish 1	0.001 mg/l Oncorhynchus mykiss (rainbow trout) - 20 d			
Bioconcentration factor (BCF REACH)	46.670			
Log Pow	6.91			
<u> </u>				
ENDRIN (13C12, 99%) (72-20-8 (Unlabeled				
Log Pow	5.2			
2,4'-DDE (RING-13C12, 99%) (3424-82-6 (U	nlabeled))			
Log Pow	5.58			
PENTACHLOROBENZENE (13C6, 99%) (60	08-93-5 (Unlabeled))			
BCF fish 1	79.8 - µg/l. Pimephales promelas (fathead minnow) - 31 d			
ALPHA-BHC (13C6, 99%) (319-84-6 (Unlab	ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled))			
Log Pow 3.8				
4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unl	abeled))			
Log Pow	6.02			
Bioaccumulative potential Indication of bioaccumulation.				
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			
Log Pow	3.5 at 22 °C (72 °F)			
ISOOCTANE UNLABELED (540-84-1)				
Log Pow	4.6			
12.4 Mobility in soil				

#### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Other adverse effects

Other adverse effects : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment 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 ADR / RID / IMDG / IATA / ADN

## 14.1. UN number

UN-No.(DOT) : 1920 DOT NA no. UN1920

## 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Nonanes

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : III - Minor Danger

06/03/2020 EN (English US) 17/29

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

DOT Special Provisions (49 CFR 172.102)

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.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 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).

T2 - 1.5 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

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

### 14.3. Additional information

Emergency Response Guide (ERG) Number : 128

Other information : No supplementary information available.

### **Overland transport**

Packing group (ADR) : III

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 30 Classification code (ADR) : F1

Hazard labels (ADR) : 3 - Flammable liquids



Orange plates

30 1920

Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) 5I
EAC : 3Y
Excepted quantities (ADR) : E1

### Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel.

MFAG-No : 128

### Air transport

DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

Civil Aeronautics Law : Flammable liquids

### 14.4. Environmental hazards

Other information : No supplementary information available.

### 14.5. Special precautions for user

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

Not applicable

06/03/2020 EN (English US) 18/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

5, 2012 / Rules and Regulations	
<b>SECTION 15: Regulatory information</b>	
15.1. US Federal regulations	
EXEXPANDED POPS PESTICIDES CLEANUR	P SPIKE (13C,99%) 100 NG/ML IN NONANE/ISOOCTANE
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
N-NONANE UNLABELED (111-84-2)	
Listed on the United States TSCA (Toxic Substa	· · · · · · · · · · · · · · · · · · ·
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
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
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
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
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
KEPONE (CHLORDECONE) (13C10, 99%) (1	43-50-0 (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
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
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
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabel	ed))
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
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
TRANS-NONACHLOR (13C10, 98%) (39765-8	0-5 (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
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlab	
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
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled	(I))
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
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlab	beled))
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

06/03/2020 EN (English US) 19/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))				
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (10	24-57-3 (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	mmediate (acute) health hazard Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313			
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			
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.			
ENDOSULFAN I (13C9, 99%) (959-98-8 (Unlabe				
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			
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.			
HEXACHLOROBENZENE (13C6, 99%) (93952-	,			
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			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313			
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			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313			
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			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313			
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			
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313			
HEPTACHLOR (13C10, 99%) (76-44-8 (Unlabel	ed))			
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			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313			
4,4'-DDT (RING-13C12, 99%) (104215-84-1)				
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			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313			
ENDRIN (13C12, 99%) (72-20-8 (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			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313			

06/03/2020 EN (English US) 20/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

TRANS-CHLORDANE (GAMMA) (13C10, 99%)	(5103-7/-2 (Unlabeled))
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 511/312 Hazaru Glasses	Delayed (chronic) health hazard
2,4'-DDD (RING-13C12, 99%) (53-19-0 (Unlabe	led))
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
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unla	beled))
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
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
PENTACHLOROBENZENE (13C6, 99%) (608-9	3-5 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled	d))
Subject to reporting requirements of United State	es SARA Section 313
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabe	led))
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
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
LINDANE (13C6, 99%) (58-89-9 (Unlabeled))	
Listed on the United States SARA Section 302 Subject to reporting requirements of United State	es SARA Section 313
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
ISOOCTANE UNLABELED (540-84-1)	
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	Fire hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.

# 15.2. International regulations

### **CANADA**

EXEXPANDED POPS PESTICIDES CLEANUP SPIKE (13C,99%) 100 NG/ML IN NONANE/ISOOCTANE

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

## 15.2.1. National regulations

## 15.3. US State regulations

EXEXPANDED POPS PESTICIDES CLEANUP SPIKE (13C,99%) 100 NG/ML IN NONANE/ISOOCTANE()		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	

06/03/2020 EN (English US) 21/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	3C,99%) 100 NG/ML IN NON U.S Massachusetts - Right 7		
	U.S Pennsylvania - RTK (Ri U.S New Jersey - Right to K	ght to Know) List now Hazardous Substance Lis	t
11-84-2)			
U.S California -	U.S California -	U.S California -	No significant risk level
	Proposition 65 -		(NSRL)
Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	
98%) (5103-73-1 (Unlabeled	))		
U.S California -	U.S California -	U.S California -	No significant risk level
			(NSRL)
Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	
) (13C10, 99%) (143-50-0 (U	Inlabeled))		
U.S California -	U.S California -	U.S California -	No significant risk level
	Proposition 65 -		(NSRL)
Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
Yes	Yes	Yes	
99%) (27304-13-8 (Unlabele	d))		
U.S California -	U.S California -	U.S California -	No significant risk level
			(NSRL)
Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	
(60-57-1 (Unlabeled))			
U.S California -	U.S California -	U.S California -	No significant risk level
•			(NSRL)
Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	
10, 98%) (39765-80-5 (Unlak	peled))	<u> </u>	
U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	
b) (72-55-9 (Unlabeled))			
U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
Yes	Yes	Yes	
9-85-7 (Unlabeled))			
U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	
) (789-02-6 (Unlabeled))			
(103-02-0 (Officion))		110 0 111	No significant rials lavel
U.S California -	U.S California -	U.S California -	No significant risk level
U.S California - Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
U.S California -			
1	U.S California - Proposition 65 - Developmental Toxicity  No  108%) (5103-73-1 (Unlabeled) U.S California - Proposition 65 - Developmental Toxicity  No  1013C10, 99%) (143-50-0 (U.S California - Proposition 65 - Developmental Toxicity  Yes  109%) (27304-13-8 (Unlabeled) U.S California - Proposition 65 - Developmental Toxicity  No  10, 98%) (39765-80-5 (Unlabeled)) U.S California - Proposition 65 - Developmental Toxicity  No  10, 98%) (39765-80-5 (Unlabeled)) U.S California - Proposition 65 - Developmental Toxicity  No  10, 98%) (39765-80-5 (Unlabeled)) U.S California - Proposition 65 - Developmental Toxicity  Yes  9-85-7 (Unlabeled)) U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female  No N

06/03/2020 EN (English US) 22/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

CIS-HEPTACHLOR EPOX	IDE (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)
Yes	No	No	No	
ENDOSULFAN II (CHEMIC	CAL PURITY >95%) (13C9, 99	9%) (33213-65-9 (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)
No	No	No	No	
ENDOSULFAN I (13C9, 99	%) (959-98-8 (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)
No	No	No	No	
HEXACHLOROBENZENE				
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)
Yes	Yes	Yes	Yes	
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)
No	Yes	Yes	Yes	
MIREX (13C10, 98%) (2385	5-85-5 (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)
Yes	No	No	No	
ALDRIN (13C12, 99%) (309	9-00-2 (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)
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	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	Yes	Yes	
4,4'-DDT (RING-13C12, 99	%) (104215-84-1)			
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)
Yes	Yes	Yes	Yes	
ENDRIN (13C12, 99%) (72-				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity -	U.S California - Proposition 65 - Reproductive Toxicity -	No significant risk level (NSRL)

06/03/2020 EN (English US) 23/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ENDRIN (13C12, 99%) (	(72-20-8 (Unlabeled))			
		Female	Male	
No	Yes	Yes	Yes	
TRANS-CHLORDANE (	GAMMA) (13C10, 99%) (5103-7	4-2 (Unlabeled))		
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity -	(NSRL)
Jaicinogens List	Developmental Toxicity	Female	Male	
No	No	No	No	
2,4'-DDD (RING-13C12,	99%) (53-19-0 (Unlabeled))			<u> </u>
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
2,4'-DDE (RING-13C12,	99%) (3424-82-6 (Unlabeled))			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
No	No	Female	Male	
No	No	No	No	
	ENE (13C6, 99%) (608-93-5 (Unl		1,10,0,0,1	
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Female	Reproductive Toxicity - Male	
No	No	No	No	
	%) (319-84-6 (Unlabeled))			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
Yes	No	No	No	
4.4'-DDD (RING-13C12.	99%) (72-54-8 (Unlabeled))	<u> </u>		
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
Yes	No	No	No	
LINDANE (13C6, 99%)	` ;	110 0-17	11.0 0-11	Nie electric
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity -	(NSRL)
Carolilogens List	Developmental Toxicity	Female	Male	
No	Yes	Yes	Yes	
ISOOCTANE UNLABEL	ED (540-84-1)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	

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

## State or local regulations

- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. New Jersey Right to Know Hazardous Substance List

U.S. - Massachusetts - Right To Know List

06/03/2020 EN (English US) 24/29

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances

### CIS-NONACHLOR (13C10, 98%) (5103-73-1 (Unlabeled))

#### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

### KEPONE (CHLORDECONE) (13C10, 99%) (143-50-0 (Unlabeled))

#### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

## OXYCHLORDANE (13C10, 99%) (27304-13-8 (Unlabeled))

### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

### DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabeled))

### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

### TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))

#### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

## 4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))

### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

### BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))

## State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

## 2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))

### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

## CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))

### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

### ENDOSULFAN II (CHEMICAL PURITY >95%) (13C9, 99%) (33213-65-9 (Unlabeled))

### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

### ENDOSULFAN I (13C9, 99%) (959-98-8 (Unlabeled))

## State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

06/03/2020 EN (English US) 25/29

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### HEXACHLOROBENZENE (13C6, 99%) (93952-14-8)

### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

### DELTA-BHC (13C6, 99%) (319-86-8 (Unlabeled))

#### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

### MIREX (13C10, 98%) (2385-85-5 (Unlabeled))

### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

### ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))

#### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

## HEPTACHLOR (13C10, 99%) (76-44-8 (Unlabeled))

### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

## 4,4'-DDT (RING-13C12, 99%) (104215-84-1)

### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

### ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))

### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

## TRANS-CHLORDANE (GAMMA) (13C10, 99%) (5103-74-2 (Unlabeled))

### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

## 2,4'-DDD (RING-13C12, 99%) (53-19-0 (Unlabeled))

# State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

## 2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))

### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

### PENTACHLOROBENZENE (13C6, 99%) (608-93-5 (Unlabeled))

### State or local regulations

- 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

06/03/2020 EN (English US) 26/29

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

### 4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabeled))

### State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

### LINDANE (13C6, 99%) (58-89-9 (Unlabeled))

### State or local regulations

- 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

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

### State or local regulations

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

## **SECTION 16: Other information**

Other information

: 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 R-, H- and EUH-phrases:

lext of K-, H- and EUH-philases.	
Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1
Acute Tox. 1 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 1
Acute Tox. 1 (Oral)	Acute toxicity (oral) Category 1
Acute Tox. 2 (Dermal)	Acute toxicity (dermal) Category 2
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Sol. 1	Flammable solids Category 1
Lact.	Reproductive toxicity (Lact.)
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 2	Specific target organ toxicity (single exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
l-	

06/03/2020 EN (English US) 27/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

H328	
H301	
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 initiation Causes serious eye initiation H330 Fatal if inhaled H332 Harmful if inhaled H333 Harmful if inhaled H335 May cause respiratory initiation H336 May cause drowsiness or dizziness H356 May cause drowsiness or dizziness H351 Suspected of causing cancer H351 Suspected of damaging fentility or the unborn child H362 May cause harm to breast-fed children H371 May cause damage to organs through prolonged or repeated exposure H371 May cause damage to organs through prolonged or repeated exposure H372 Causes damage to organs through prolonged or repeated exposure H400 Very toxic to aquatic life H410 Very toxic to aquatic life H410 Very toxic to aquatic life H410 Flammable R11 Highly Itanimable R20 Harmful by inhalation and in contact with skin H21 Harmful in contact with skin R22 Harmful if swallowed R24 Toxic in contact with skin R21 Harmful if swallowed R25 Toxic if swallowed R26 Very toxic to in contact with skin R21 Harmful if swallowed R26 Very toxic in contact with skin R27 Very toxic in contact with skin R27 Very toxic in contact with skin R28 Very toxic in contact with skin R29 Very toxic in contact with skin R27 Very toxic in contact with skin R27 Very toxic in contact with skin R38 Irritating to eyes R363 Irritating to eyes respiratory system and skin R39 Irritating to eyes respiratory system and skin R40 Limited evidence of a carcinogenic effect R45 May cause cancer R482 Harmful if departs of serious damage to health by prolonged exposure if swallowed R482 Harmful if departs of serious damage to health by prolonged exposure if swallowed R482 Harmful if departs of serious damage to health by prolonged exposure if swallowed R56 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environ R503 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environ R	
H304   May be fatal if swallowed and enters airways     H311	
H310	
H311 Toxic in contact with skin H312 Hammful in contact with skin H315 Causes skin irritation Causes serious eye irritation H319 Causes serious eye irritation H330 Fatali finhaled H332 Hammful if inhaled H332 May cause respiratory irritation H336 May cause drowsiness or dizziness H350 May cause drowsiness or dizziness H351 Suspected of causing cancer H351 Suspected of damaging fertility or the unborn child H362 May cause 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 H411 Highly flammable R11 Highly flammable R11 Highly flammable R22 Hammful by inhalation R2021 Hammful by inhalation R214 Hammful in contact with skin R22 Hammful in contact with skin R24 Toxic in contact with skin R24 Toxic in contact with skin R24 Toxic in contact with skin R25 Toxic if swallowed R26 Very toxic by inhalation and if swallowed R27 Very toxic by inhalation and if swallowed R27 Very toxic by inhalation and if swallowed R36 Irritating to eyes R363 Irritating to eyes R363 Irritating to eyes R363 Irritating to eyes R482 Hammful in depart of serious damage to health by prolonged exposure if swallowed R482 Hammful in eyes, respiratory system and skin R492 Hammful eyes of serious damage to health by prolonged exposure if swallowed R56 May cause cancer R48 Danger of serious damage to health by prolonged exposure if swallowed R57 Toxic it oquatic organisms R505 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environ R5073 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environ R57 Veposite in swallowed R58 Hammful: danger of serious damage to health by prolonged exposure if swallowed R50 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environ R5073 Vepos toxic to aquatic organisms, may cause long-term adverse effects in the aquatic e	
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H361   Suspected of damaging fertility or the unborn child     H362   May cause harm to breast-fed children     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     H374   H375   Wery toxic to aquatic life with long lasting effects     H410   Very toxic to aquatic life with long lasting effects     H376   H376   H376   H376     H377   H377   H377   H377     H377   H377   H377   H377   H377     H377   H377   H377   H377   H377     H377   H377   H377   H377   H377     H377   H377   H377   H377   H377   H377     H377   H377   H377   H377   H377   H377   H377     H377   H377   H377   H377   H377   H377   H377     H377   H377   H377   H377   H377   H377   H377   H377   H377     H377	
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R67 Vapors may cause drowsiness and dizziness	
Highly tiammable	
<u> </u>	
N Dangerous for the environment	
T Toxic	
T+ Very toxic	
Xi Irritant	
Xn Harmful	

06/03/2020 EN (English US) 28/29

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause

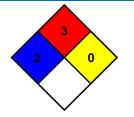
temporary incapacitation or residual injury.

NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient

temperature conditions.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



### **Hazard Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard
Physical : 0 Minimal Hazard

#### CIL Multi-Solvent Mixture SDS

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

06/03/2020 EN (English US) 29/29