

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: 17/03/2020 Revision date: Version: 1.0

ES-5442-CS9

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

Product identifier

Product form : Mixtures

Product name : CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS9 (UNLABELED/13C, 99%) IN

NONANE

: ES-5442-CS9 Product code

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

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

Uses advised against

No additional information available

Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA: 1-800-322-1174 Int: 1-978-749-8000 www.isotope.com cilsales@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

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 H319 Eye Irrit. 2 STOT SE 3 H336 H304 Asp. Tox. 1

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

Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 3 H226 Acute Tox. 4 (Inhalation:dust,mist) H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319 **STOT SE 3** H336 Asp. Tox. 1 H304 Full text of H statements : see section 16

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)







GHS02

GHS08

GHS07

Signal word (CLP) : Danger

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

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

smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

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

GHS-US labeling

Hazard pictograms (GHS-US)







GHS02

GHS07

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

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

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment

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

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

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

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

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 supplemental first aid instruction on this label)

P331 - Do NOT induce vomiting.

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

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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 media other than water to extinguish.

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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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	99.8351093	R10 Xn; R20 Xn; R65 Xi; R36/38 R67
TOLUENE UNLABELED	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3 (REACH-no) 01-2119471310-51	0.0902747	F; R11 Xi; R38 Xn; R65 Repr.Cat.3; R62 Repr.Cat.3; R63 R67 N; R51/53 Xn; R48/20
ISOOCTANE UNLABELED	(CAS-No.) 540-84-1 (EC-No.) 208-759-1 (EC Index-No.) 601-009-00-8 (REACH-no) 01-2119457965-22	0.0722178	Xi; R38 N; R50/53 R67 F; R11 Xn; R65
4,4'-DDT UNLABELED	(CAS-No.) 50-29-3 (EC-No.) 200-024-3 (EC Index-No.) 602-045-00-7	0.0010443	Carc.Cat.3; R40 T; R25 N; R50/53
4,4'-DDE UNLABELED	(CAS-No.) 72-55-9 (EC-No.) 200-784-6	0.0010442	Xn; R22 Carc.Cat.3; R40 N; R50/53
4,4'-DDE (RING-13C12, 99%)	(CAS-No.) 72-55-9 (Unlabeled) (EC-No.) 200-784-6 (Unlabeled)	0.0000209	Xn; R22 Carc.Cat.3; R40 N; R50/53
2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%)	(CAS-No.) 234432-92-9 (EC Index-No.) 602-039-00-4 (Unlabeled)	0.0000139	N; R50/53 R48
DIELDRIN (13C12, 98-99%)	(CAS-No.) 60-57-1 (Unlabeled) (EC-No.) 200-484-5 (EC Index-No.) 602-049-00-9	0.0000105	Carc.Cat.3; R40 T+; R27 T; R25 N; R50/53 R48
METHOXYCHLOR (RING-13C12, 99%)	(CAS-No.) 72-43-5 (Unlabeled) (EC-No.) 200-779-9	0.0000105	Xn; R20/21/22 Carc.Cat.3; R40 Xi; R36/37/38 N; R50/53
CIS-CHLORDANE (13C10, 99%)	(CAS-No.) 475275-01-5 (EC-No.) 225-825-5	0.0000105	T; R24 Xn; R20/22 Xi; R36/37/38 N; R50/53
ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%)	(CAS-No.) 465-73-6 (Unlabeled) (EC-No.) 207-366-2 (Unlabeled) (EC Index-No.) 602-050-00-4 (Unlabeled)	0.0000105	T+; R26/27/28 N; R50/53

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
PARLAR 26 (13C10, 99%)	(CAS-No.) 142534-71-2 (Unlabeled) (EC-No.) 208-759-1 (Unlabeled) (EC Index-No.) 601-009-00-8 (Unlabeled)	0.0000104	Xi; R36/37/38 Xn; R48/20 Muta.Cat.3; R68 Repr.Cat.3; R62 Repr.Cat.3; R63 N; R50/53
PARLAR 50 (13C10, 99%)	(CAS-No.) 66860-80-8 (Unlabeled)	0.0000104	Not classified
PARLAR 62 (13C10, 99%)	(CAS-No.) 154159-06-5 (Unlabeled) (EC Index-No.)	0.0000104	Xi; R36/37/38 N; R50/53 Xn; R48/20 Muta.Cat.3; R68 Repr.Cat.3; R62 Repr.Cat.3; R63
HEXACHLOROBENZENE (13C6, 99%)	(CAS-No.) 93952-14-8 (EC-No.) 204-273-9 (Unlabeled) (EC Index-No.) 602-065-00-6 (Unlabeled)	0.0000104	Xi; R36 N; R50/53 Xn; R48/22
BETA-BHC (13C6, 99%)	(CAS-No.) 319-85-7 (Unlabeled) (EC-No.) 206-271-3 (Unlabeled) (EC Index-No.) 602-042-00-0 (Unlabeled)	0.0000104	Carc.Cat.3; R40 T; R25 N; R51/53 Xn; R21
LINDANE (13C6, 99%)	(CAS-No.) 58-89-9 (Unlabeled) (EC-No.) 200-401-2 (EC Index-No.) 602-043-00-6	0.0000104	T; R25 Xn; R20/21 Xn; R48/22 R64 N; R50/53
ALDRIN (13C12, 99%)	(CAS-No.) 309-00-2 (Unlabeled) (EC-No.) 206-215-8 (Unlabeled) (EC Index-No.) 602-048-00-3 (Unlabeled)	0.0000104	Carc.Cat.3; R40 T+; R27/28 T; R25 N; R50/53 R48
OXYCHLORDANE (13C10, 99%)	(CAS-No.) 27304-13-8 (Unlabeled)	0.0000104	Carc.Cat.3; R40 T; R25 N; R50/53
TRANS-NONACHLOR (13C10, 98%)	(CAS-No.) 39765-80-5 (Unlabeled)	0.0000104	Xn; R22 Xi; R36/37/38 N; R50/53
CIS-NONACHLOR (13C10, 98%)	(CAS-No.) 5103-73-1 (Unlabeled)	0.0000104	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)	0.0000104	Carc.Cat.3; R40 Repr.Cat.3; R62 Repr.Cat.3; R63 T; R24/25 N; R50/53
2,4'-DDT (RING-13C12, 99%)	(CAS-No.) 789-02-6 (Unlabeled) (EC-No.) 212-332-5 (Unlabeled)	0.0000104	N; R50/53 Xn; R22 Xi; R36/37/38 T; R48/25 Carc.Cat.1; R45
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)	0.0000104	Carc.Cat.3; R40 T+; R28 N; R50/53 R48
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)	0.0000104	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	0.0000104	T+; R28 T; R24 N; R50/53
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	(CAS-No.) 5103-74-2 (Unlabeled) (EC-No.) 225-826-0	0.0000104	Carc.Cat.3; R40 Xn; R22 N; R50

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2,4'-DDE (RING-13C12, 99%)	(CAS-No.) 3424-82-6 (Unlabeled) (EC-No.) 222-318-0	0.0000104	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	0.0000104	Carc.Cat.3; R40 T; R25 Xn; R21 N; R50/53
PENTACHLOROANISOLE (13C6, 99%)	(CAS-No.) 1825-21-4 (Unlabeled)	0.0000104	Xn; R22 N; R50/53
3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%)	(CAS-No.) 93703-48-1 (Unlabeled)	0.0000104	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%)	(CAS-No.) 488710-25-4	0.0000104	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
OCTACHLOROSTYRENE (13C8, 99%)	(CAS-No.) 29082-74-4 (Unlabeled)	0.0000104	Xn; R22 N; R50/53
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C6, 99%)	(CAS-No.) 30746-58-8 (Unlabeled)	0.0000035	T+; R26/27/28 Carc.Cat.1; R45
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	99.8351093	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
TOLUENE UNLABELED	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3 (REACH-no) 01-2119471310-51	0.0902747	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 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	0.0722178	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DDT UNLABELED	(CAS-No.) 50-29-3 (EC-No.) 200-024-3 (EC Index-No.) 602-045-00-7	0.0010443	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
4,4'-DDE UNLABELED	(CAS-No.) 72-55-9 (EC-No.) 200-784-6	0.0010442	Acute Tox. 4 (Oral), H302 Carc. 2, H351 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)	0.0000209	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%)	(CAS-No.) 234432-92-9 (EC Index-No.) 602-039-00-4 (Unlabeled)	0.0000139	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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DIELDRIN (13C12, 98-99%)	(CAS-No.) 60-57-1 (Unlabeled) (EC-No.) 200-484-5 (EC Index-No.) 602-049-00-9	0.0000105	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
METHOXYCHLOR (RING-13C12, 99%)	(CAS-No.) 72-43-5 (Unlabeled) (EC-No.) 200-779-9	0.0000105	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. 2, H351 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
CIS-CHLORDANE (13C10, 99%)	(CAS-No.) 475275-01-5 (EC-No.) 225-825-5	0.0000105	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%)	(CAS-No.) 465-73-6 (Unlabeled) (EC-No.) 207-366-2 (Unlabeled) (EC Index-No.) 602-050-00-4 (Unlabeled)	0.0000105	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation:dust,mist), H330 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
PARLAR 26 (13C10, 99%)	(CAS-No.) 142534-71-2 (Unlabeled) (EC-No.) 208-759-1 (Unlabeled) (EC Index-No.) 601-009-00-8 (Unlabeled)	0.0000104	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PARLAR 50 (13C10, 99%)	(CAS-No.) 66860-80-8 (Unlabeled)	0.0000104	Not classified
PARLAR 62 (13C10, 99%)	(CAS-No.) 154159-06-5 (Unlabeled) (EC Index-No.)	0.0000104	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361 STOT SE 3, H335 STOT SE 2, H371 STOT RE 2, H373 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)	0.0000104	Carc. 1A, H350 STOT RE 1, H372 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)	0.0000104	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LINDANE (13C6, 99%)	(CAS-No.) 58-89-9 (Unlabeled) (EC-No.) 200-401-2 (EC Index-No.) 602-043-00-6	0.0000104	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
ALDRIN (13C12, 99%)	(CAS-No.) 309-00-2 (Unlabeled) (EC-No.) 206-215-8 (Unlabeled) (EC Index-No.) 602-048-00-3 (Unlabeled)	0.0000104	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
OXYCHLORDANE (13C10, 99%)	(CAS-No.) 27304-13-8 (Unlabeled)	0.0000104	Acute Tox. 4 (Oral), H302
TRANS-NONACHLOR (13C10, 98%)	(CAS-No.) 39765-80-5 (Unlabeled)	0.0000104	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
CIS-NONACHLOR (13C10, 98%)	(CAS-No.) 5103-73-1 (Unlabeled)	0.0000104	Acute Tox. 4 (Oral), H302 Aquatic Chronic 1, H410

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MIREX (13C10, 98%)	(CAS-No.) 2385-85-5 (Unlabeled) (EC-No.) 219-196-6 (Unlabeled) (EC Index-No.) 602-077-00-1 (Unlabeled)	0.0000104	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
2,4'-DDT (RING-13C12, 99%)	(CAS-No.) 789-02-6 (Unlabeled) (EC-No.) 212-332-5 (Unlabeled)	0.0000104	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
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)	0.0000104	Acute Tox. 2 (Oral), H300 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
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)	0.0000104	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) (EC-No.) 200-775-7 (EC Index-No.) 602-051-00-X	0.0000104	Acute Tox. 1 (Oral), H300 Acute Tox. 2 (Dermal), H310 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	(CAS-No.) 5103-74-2 (Unlabeled) (EC-No.) 225-826-0	0.0000104	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=10)
2,4'-DDE (RING-13C12, 99%)	(CAS-No.) 3424-82-6 (Unlabeled) (EC-No.) 222-318-0	0.0000104	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) (EC-No.) 206-270-8 (EC Index-No.) 602-042-00-0	0.0000104	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PENTACHLOROANISOLE (13C6, 99%)	(CAS-No.) 1825-21-4 (Unlabeled)	0.0000104	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%)	(CAS-No.) 93703-48-1 (Unlabeled)	0.0000104	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%)	(CAS-No.) 488710-25-4	0.0000104	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
OCTACHLOROSTYRENE (13C8, 99%)	(CAS-No.) 29082-74-4 (Unlabeled)	0.0000104	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C6, 99%)	(CAS-No.) 30746-58-8 (Unlabeled)	0.0000035	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Carc. 1A, H350
Name	Product identifier	%	GHS-US classification
N-NONANE UNLABELED	(CAS-No.) 111-84-2	99.8351093	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304

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Name	Product identifier	%	GHS-US classification
TOLUENE UNLABELED	(CAS-No.) 108-88-3	0.0902747	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401
ISOOCTANE UNLABELED	(CAS-No.) 540-84-1	0.0722178	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DDT UNLABELED	(CAS-No.) 50-29-3	0.0010443	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DDE UNLABELED	(CAS-No.) 72-55-9	0.0010442	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DDE (RING-13C12, 99%)	(CAS-No.) 72-55-9 (Unlabeled)	0.0000209	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%)	(CAS-No.) 234432-92-9	0.0000139	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DIELDRIN (13C12, 98-99%)	(CAS-No.) 60-57-1 (Unlabeled)	0.0000105	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
METHOXYCHLOR (RING-13C12, 99%)	(CAS-No.) 72-43-5 (Unlabeled)	0.0000105	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CIS-CHLORDANE (13C10, 99%)	(CAS-No.) 475275-01-5	0.0000105	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400
ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%)	(CAS-No.) 465-73-6 (Unlabeled)	0.0000105	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PARLAR 26 (13C10, 99%)	(CAS-No.) 142534-71-2 (Unlabeled)	0.0000104	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PARLAR 50 (13C10, 99%)	(CAS-No.) 66860-80-8 (Unlabeled)	0.0000104	Not classified
PARLAR 62 (13C10, 99%)	(CAS-No.) 154159-06-5 (Unlabeled)	0.0000104	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361 STOT SE 3, H335 STOT SE 2, H371 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HEXACHLOROBENZENE (13C6, 99%)	(CAS-No.) 93952-14-8	0.0000104	Carc. 1B, H350 STOT RE 1, H372 Aquatic Chronic 1, H410
BETA-BHC (13C6, 99%)	(CAS-No.) 319-85-7 (Unlabeled)	0.0000104	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	GHS-US classification
LINDANE (13C6, 99%)	(CAS-No.) 58-89-9 (Unlabeled)	0.0000104	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
ALDRIN (13C12, 99%)	(CAS-No.) 309-00-2 (Unlabeled)	0.0000104	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
OXYCHLORDANE (13C10, 99%)	(CAS-No.) 27304-13-8 (Unlabeled)	0.0000104	Acute Tox. 4 (Oral), H302
TRANS-NONACHLOR (13C10, 98%)	(CAS-No.) 39765-80-5 (Unlabeled)	0.0000104	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CIS-NONACHLOR (13C10, 98%)	(CAS-No.) 5103-73-1 (Unlabeled)	0.0000104	Acute Tox. 4 (Oral), H302 Aquatic Chronic 1, H410
MIREX (13C10, 98%)	(CAS-No.) 2385-85-5 (Unlabeled)	0.0000104	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4'-DDT (RING-13C12, 99%)	(CAS-No.) 789-02-6 (Unlabeled)	0.0000104	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
CIS-HEPTACHLOR EPOXIDE (13C10, 99%)	(CAS-No.) 1024-57-3 (Unlabeled)	0.0000104	Acute Tox. 2 (Oral), H300 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400
4,4'-DDT (RING-13C12, 99%)	(CAS-No.) 104215-84-1	0.0000104	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)	0.0000104	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)	0.0000104	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400
2,4'-DDE (RING-13C12, 99%)	(CAS-No.) 3424-82-6 (Unlabeled)	0.0000104	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)	0.0000104	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PENTACHLOROANISOLE (13C6, 99%)	(CAS-No.) 1825-21-4 (Unlabeled)	0.0000104	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%)	(CAS-No.) 93703-48-1 (Unlabeled)	0.0000104	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%)	(CAS-No.) 488710-25-4	0.0000104	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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Name	Product identifier	%	GHS-US classification
OCTACHLOROSTYRENE (13C8, 99%)	(CAS-No.) 29082-74-4 (Unlabeled)	0.0000104	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C6, 99%)	(CAS-No.) 30746-58-8 (Unlabeled)	0.0000035	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Carc. 1A, H350

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

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general

First-aid measures after inhalation

: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area. 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. and soap. 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 eve irritation.

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

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

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.

Advice for firefighters

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

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

apparatus. Complete protective clothing.

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

: Do not attempt to take action without suitable protective equipment. For further information Protective equipment

refer to section 8: "Exposure controls/personal protection".

Environmental precautions

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

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

Other information : Dispose of materials or solid residues at an authorized site

Reference to other sections

For further information refer to section 13.

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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

Storage conditions

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

: 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

4,4'-DDT UNLABELED (50-29	9-3)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m³ Liver damage. Confirmed animal carcinogen with unknown relevance to humans.	
USA OSHA	OSHA PEL (TWA) (mg/m³)	1 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	
LINDANE (13C6, 99%) (58-89	-9 (Unlabeled))		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³	
ALDRIN (13C12, 99%) (309-0	0-2 (Unlabeled))		
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	
DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabeled))			
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	
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	

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ENDRIN (13C12, 99%) (72-20	9-8 (Unlabeled))		
USA OSHA	OSHA PEL (TWA) (mg/m³)	0.1 mg/m³ Danger of cutaneous absorption, not	
		classifiable a a human carcinogen	
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	
METHOXYCHLOR (RING-130	C12, 99%) (72-43-5 (Unlabeled))		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ Central nervous system impairment. Liver damage.	
TOLUENE UNLABELED (108	3-88-3)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)	
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Visual impairment. Female reproductive. Pregnancy loss. 2015 Adoption. Substances for which there is a Biological Exposure Index or Indices (see BEI® section). Not classifiable as a human carcinogen.; Component: Toluene CAS-No.: 108-88-3 Parameters: Toluene Value: 0.0300 mg/l Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS-No.: 108-88-3 Parameters: Toluene Value: 0.0200 mg/l Biological specimen: In blood Remarks: Prior to last shift of workweek Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS-No.: 108-88-3 Parameters: o-Cresol Value: 0.3000 mg/g Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI)	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	375 mg/m³ USA. NIOSH Recommended Exposure Limits	
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm USA. NIOSH Recommended Exposure Limits	
USA NIOSH	NIOSH REL (STEL) (mg/m³)	560 mg/m³ USA. NIOSH Recommended Exposure Limits	
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm USA. NIOSH Recommended Exposure Limits	
USA OSHA	OSHA PEL (TWA) (mg/m³)	375 mg/m³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000	
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000	
USA OSHA	OSHA PEL (STEL) (mg/m³)	560 mg/m³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000	
USA OSHA	OSHA PEL (STEL) (ppm)	150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000	
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-2	
USA OSHA	Remark (OSHA)	OSHA PEL (TWA) - 200 ppm - USA. Occupational Exposure Limits (OSHA) - Table Z-2. Remarks: Z37.12-1967	
ISOOCTANE UNLABELED (540-84-1)			
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	
N-NONANE UNLABELED (111-84-2)			
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)	
Italy - Portugal - USA ACGIH	Remark (ACGIH)	CNS impair	

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N-NONANE UNLABELED (1	11-84-2)	
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.

8.2. Exposure controls

Explosive properties

Oxidizing properties

Appropriate engineering controls : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work.

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









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.

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: LiquidAppearance: LiquidColor: Colorless

Odor No data available Odor threshold No data available No data available рΗ 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 Flammability (solid, gas) No data available Vapor pressure No data available Relative vapor density at 20 °C : No data available Relative density : No data available Solubility No data available Log Pow No data available Log Kow No data available Viscosity, kinematic : No data available No data available Viscosity, dynamic

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: No data available

: No data available

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Explosion limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

No additional information available

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.	
CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS9 (UNLABELED/13C, 99%) IN NONANE		
ATE CLP (gases)	4500.000 ppmV/4h	
ATE CLP (vapors)	11.000 mg/l/4h	
ATE CLP (dust, mist)	1.500 mg/l/4h	
4,4'-DDT UNLABELED (50-29-3)		
LD50 oral rat	87 mg/kg	
LD50 dermal rabbit	300 mg/kg	
ATE CLP (oral)	87.000 mg/kg body weight	
ATE CLP (dermal)	300.000 mg/kg body weight	
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	
BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled)		
LD50 oral rat	6000 mg/kg	
ATE CLP (oral)	100.000 mg/kg body weight	

BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))				
LD50 oral rat	6000 mg/kg			
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			
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.			

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ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))			
ATE CLP (oral)	39.000 mg/kg body weight		
ATE CLP (dermal)	15.000 mg/kg body weight		
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (10)24-57-3 (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		
OXYCHLORDANE (13C10, 99%) (27304-13-8 (I	Jnlabeled))		
LD50 oral rat	457 mg/kg		
ATE CLP (oral)	457.000 mg/kg body weight		
TRANS-NONACHLOR (13C10, 98%) (39765-80	-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 (Unlabel	ed))		
LD50 oral rat	880 mg/kg		
ATE CLP (oral)	880.000 mg/kg body weight		
DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabele			
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		
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		
ISODRIN (CHEMICAL PURITY 95%) (13C12, 9	9%) (465-73-6 (Unlabeled))		
LD50 oral rat	7 mg/kg		
LD50 dermal rat	23 mg/kg		
ATE CLP (oral)	0.500 mg/kg body weight		
ATE CLP (dermal)	5.000 mg/kg body weight		
ATE CLP (dust, mist)	0.005 mg/l/4h		
2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlab	eled))		
ATE CLP (oral)	100.000 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		
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		
ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled			
LD50 oral rat	177 mg/kg		
ATE CLP (oral)	177.000 mg/kg body weight		
ATE CLP (dermal)	1100.000 mg/kg body weight		
CIS-CHLORDANE (13C10, 99%) (475275-01-5)			
LD50 oral rat 500 mg/kg			
ATE CLP (oral)	500.000 mg/kg body weight		
ATE CLP (dermal)	300.000 mg/kg body weight		
ATE OF (dolina)	Coccoo mgmg body worght		

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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'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))				
LD50 oral rat	880 mg/kg			
ATE CLP (oral)	880.000 mg/kg body weight			
CIS-NONACHLOR (13C10, 98%) (5103-73-1 (U	nlabeled))			
ATE CLP (oral)	500.000 mg/kg body weight			
METHOXYCHLOR (RING-13C12, 99%) (72-43-				
LD50 oral rat	1855 mg/kg			
ATE CLP (oral)	1855.000 mg/kg body weight			
ATE CLP (dermal)	1100.000 mg/kg body weight			
ATE CLP (dust, mist)	1.500 mg/l/4h			
PENTACHLOROANISOLE (13C6, 99%) (1825-				
ATE CLP (oral)	500.000 mg/kg body weight			
OCTACHLOROSTYRENE (13C8, 99%) (29082				
LD50 oral rat ATE CLP (oral)	3710 mg/kg 3710.000 mg/kg body weight			
	37 TO. OOO THYRKY DOUY WEIGHT			
TOLUENE UNLABELED (108-88-3)	F500			
LD50 oral rat	> 5580 mg/kg			
LD50 dermal rabbit	12196 mg/kg			
LC50 inhalation rat (mg/l)	12,500 - 28,800 mg/m3 - 4 h			
ATE CLP (dermal)	12196.000 mg/kg body weight			
ATE CLP (vapors)	12.500 mg/l/4h 12.500 mg/l/4h			
ATE CLP (dust, mist)	12.000 HIGHT			
ISOOCTANE UNLABELED (540-84-1)	E000 mailin (OECD Took Cuidolina 404)			
LD50 oral rat LD50 dermal rabbit	> 5000 mg/kg (OECD Test Guideline 401) > 2000 mg/kg (OECD Test Guideline 402)			
LC50 inhalation rat (mg/l)	> 33.52 mg/l/4h (OECD Test Guideline 403)			
N-NONANE UNLABELED (111-84-2)	22700 mg/m³ mglo. 4 h			
LC50 inhalation rat (mg/l)	23760 mg/m³ male - 4 h			
ATE CLP (vapors) Skin corrosion/irritation, Dermal, rat	11.000 mg/l/4h Result: Skin Irritation (Draize Test)			
Additional information	: S. Typhimurium Result: negative			
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (1				
` '	5.000 mg/kg body weight			
ATE CLP (dermal) ATE CLP (dust, mist)	5.000 mg/kg body weight 0.050 mg/l/4h			
, , ,	0.000 mg//#II			
4,4'-DDE UNLABELED (72-55-9)	000			
LD50 oral rat	880 mg/kg			
ATE CLP (oral)	880.000 mg/kg body weight			
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	: This information is based on our current knowledge and is intended to describe the product for			
symptoms	the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.			

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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		
12.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	
4,4'-DDT UNLABELED (50-29-3)		
LC50 fish 1	0.01 mg/l Pimephales promelas (fathead minnow) - 96 h	
EC50 Daphnia 1	0.00108 mg/l Daphnia magna (Water flea) - 48 h	
ErC50 (algae)	> 20 mg/l Scenedesmus quadricauda (Green Algae) - 7 d	
ErC50 (other aquatic plants)	113 mg/l Oncorhynchus mykiss (rainbow trout) - 3 d	
NOEC (chronic)	113 mg/l Oncorhynchus mykiss (rainbow trout) - 3 d	
HEXACHLOROBENZENE (13C6, 99%) (93952-	14-8)	
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	
BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled		
LC50 fish 1	1.6 mg/l Poecilia reticulata (guppy) - 96 h	
LINDANE (13C6, 99%) (58-89-9 (Unlabeled))	,	
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	
NOEC chronic fish	0.056 mg/l Oncorhynchus mykiss (rainbow trout) - 3 d	
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	
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (10		
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	
•		
TRANS-NONACHLOR (13C10, 98%) (39765-80 EC50 Daphnia 1		
•	0.022 mg/l Daphnia pulex (Water flea) - 48 h	
4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabel		
LC50 fish 1	0.2 - 0.3 mg/l Lepomis macrochirus (Bluegill) - 96 h	
LC50 other aquatic organisms 1	0.05 - 0.18 mg/l Salmo salar (Atlantic salmon) - 96 h	
LC50 fish 2 0.03 - 0.04 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h		
DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabele		
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	
ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))		
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	
ISODRIN (CHEMICAL PURITY 95%) (13C12, 9	9%) (465-73-6 (Unlabeled))	
LC50 fish 1	0.012 mg/l Lepomis macrochirus - 24 h	
2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlab	eled))	
LC50 fish 1	0.03 mg/l Other fish - 24 h	
4,4'-DDT (RING-13C12, 99%) (104215-84-1)		
4,4'-DDT (RING-13C12, 99%) (104215-84-1) LC50 fish 1	0.01 mg/l Pimephales promelas (fathead minnow) - 96 h	
, , , , , ,	0.01 mg/l Pimephales promelas (fathead minnow) - 96 h 0.01 mg/l Lepomis macrochirus (Bluegill) - 96.0 h	
LC50 fish 1		
LC50 fish 1 LC50 other aquatic organisms 1	0.01 mg/l Lepomis macrochirus (Bluegill) - 96.0 h	

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4 4'-DDT (PING-13C12, 00%) (104215-94-1)						
LOEC (chronic)	4,4'-DDT (RING-13C12, 99%) (104215-84-1)					
NOEC (chronic)	150 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h					
MIREX (13C10, 98%) (2385-85-5 (Unlabeled))	0.000 // 0.					
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					
ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled	1))					
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					
CIS-CHLORDANE (13C10, 99%) (475275-01-5)						
LC50 fish 1	0.0074 mg/l - Lepomis macrochirus (Bluegill) - 96 h					
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	(5103-74-2 (Unlabeled))					
LC50 fish 1	0.05 mg/l Lepomis macrochirus - 96 h					
METHOXYCHLOR (RING-13C12, 99%) (72-43-5	i (Unlaheled))					
LC50 fish 1	0.03 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h					
EC50 Daphnia 1	0.016 mg/l Daphnia magna (Water flea) - 48 h					
PENTACHLOROANISOLE (13C6, 99%) (1825-2	, "					
LC50 fish 1	0.65 mg/l Pimephales promelas (fathead minnow) - 96 h					
EC50 Daphnia 1	0.027 mg/l Daphnia magna (Water flea) - 48 h					
TOLUENE UNLABELED (108-88-3)						
EC50 Daphnia 1	8 mg/l Daphnia magna (Water flea) - 24h					
LC50 fish 2	7.63 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h					
EC50 Daphnia 2	6 mg/l Daphnia magna (Water flea) - Immobilization - 48 h					
ErC50 (algae)	245 mg/l Chlorella vulgaris (Fresh water algae) - 24 h					
ErC50 (other aquatic plants)	10 mg/l Pseudokirchneriella subcapitata (Green algae) - 24 h					
NOEC (chronic)	5.44 mg/l Pimephales promelas (fathead minnow) - 7 d					
4,4'-DDE UNLABELED (72-55-9)						
LC50 fish 1	0.2 - 0.3 mg/l Lepomis macrochirus (Bluegill) - 96 h					
LC50 other aquatic organisms 1	0.05 - 0.18 mg/l Salmo salar (Atlantic salmon) - 96 h					
LC50 fish 2	0.03 - 0.04 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h					
12.2. Persistence and degradability						
LINDANE (13C6, 99%) (58-89-9 (Unlabeled))						
Persistence and degradability	May cause long-term adverse effects in the environment.					
2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlab						
Persistence and degradability	May cause long-term adverse effects in the environment.					
2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlak	peled))					
Persistence and degradability	May cause long-term adverse effects in the environment.					
TOLUENE UNLABELED (108-88-3)						
Persistence and degradability	Readily biodegradable.					
12.3. Bioaccumulative potential	, v					
4,4'-DDT UNLABELED (50-29-3)						
BCF fish 1	Oncorhynchus mykiss (rainbow trout) - 20 d					
Bioconcentration factor (BCF REACH)	46670					
Log Pow	6.91					
PARLAR 26 (13C10, 99%) (142534-71-2 (Unlab	eled))					
Log Pow	4.6					
HEXACHLOROBENZENE (13C6, 99%) (93952-14-8)						
Bioconcentration factor (BCF REACH)	22000					
Bioaccumulative potential	Bioaccumulation Pimephale promelas (fathead minnow) - 32 d - 0.0003 mg/l.					
BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))						
BCF fish 1 Cyprinus carpio (Carp) - 35 d - 0.05 mg/l						
Log Pow	3.78					

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LINDANE (13C6, 99%) (58-89-9 (Unlabeled)) Bioconcentration factor (BCF REACH) 674 Log Pow 3.5 at 22 °C (72 °F) ALDRIN (13C12, 99%) (309-00-2 (Unlabeled)) Bioconcentration factor (BCF REACH) 3700 Log Pow 6.5 Bioaccumulation factor (BCF REACH) 8 Bioaccumulation factor (BCF REACH) 8 Bioaccumulation factor (BCF REACH) 8 Bioaccumulation factor (BCF REACH) 14400 Log Pow 5.4 Bioaccumulative potential 8 Bioaccumulation 8 Bioaccumulation 8 Bioaccumulative potential 8 Bioaccumulation 8 Bioaccumulation 8 Bioaccumulation 8 Bioaccumulation 8 Bioaccumulation 9 Bioaccumu	BCF fish 1 0.0091	mg/l Bioaccumulation Pimephales promels (fathead minnow) - 304 d			
BCF fish 1	BCF fish 1 0.0091	mg/l Bioaccumulation Pimephales promels (fathead minnow) - 304 d			
ADRIN (13C12, 99%) (309-00-2 (Unlabeled))	Log Pow 3.5 at 3 at				
ALDRIN (13C12, 99%) (309-00-2 (Unlabeled)) 3700 1.09 Pow 6.5 1.00 Pow 6.5 1.00 Pow	ALDRIN (13C12, 99%) (309-00-2 (Unlabeled)) Bioconcentration factor (BCF REACH) 3700 Log Pow 6.5 Bioaccumulative potential Bioaccumulative potential 14400 Log Pow 5.4 Bioaccumulative potential B				
Bloconcentration factor (BCF REACH) 3700	Bioconcentration factor (BCF REACH) 3700				
Bloconcentration factor (BCF REACH) 3700	Bioconcentration factor (BCF REACH) 3700				
Social Content	Log Pow Bioaccumulative potential Bioaccumulative potential Bioaccumulative potential CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (10∠4-57-3 Bioconcentration factor (BCF REACH) 14400 Log Pow 5.4 Bioaccumulative potential Bioaccumulative po				
Bioaccumulative potential Bioaccumulation: Leuciscus idus (Golden orfe) - 3 d. CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled)) Bioconcentration factor (BCF REACH) 14400 Log Pow 5.4 Bioaccumulative potential Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d. TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled)) Log Pow 6.35 RAY-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled)) BCF fish 1 3.84 ug/1 - Gambusia affinis (Mosquito fish) - 33 d Bioconcentration factor (BCF REACH) 12.037 Log Pow 6.51 ENDRIN (13C12, 99%) (72-20-8 (Unlabeled)) Log Pow 5.5 ENDRIN (13C12, 99%) (72-20-8 (Unlabeled)) Bioaccumulative potential Bioaccumulation Leuciscus idus (Golden orfe): Bioconcentration factor (BCF): 3.890. 4,4'-DDE (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 MREX (13C10, 98%) (2385-85-5 (Unlabeled)) BCF fish 1 0.0012 mg/l Pimephales promelas (rainbow trout) - 32 d Bioconcentration factor (BCF REACH) 18100 Log Pow 5.28 ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled)) Log Pow 5.28 ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled)) Log Pow 6.29 TOLUENE UNLABELED (108-88-3) BCF fish 1 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d BCF fish 1 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d BCF fish 1 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d BCF fish 1 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d BCF fish 1 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d BCF fish 1 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d BCF fish 1 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d BCF fish 1 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d BCF fish 1 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d BCF fish 1 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d BCF fish 1 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d BCF fish 1 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d BCF fish 1 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d BCF fish 1 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d BCF fish 1 0.05 mg/l	Bioaccumulative potential Bioaccumulative potential CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1∪24-57-3 Bioconcentration factor (BCF REACH) 14400 Log Pow 5.4 Bioaccumulative potential Bioaccumulative potential Log Pow 6.35 4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled)) 12.037 Log Pow 6.51 ENDRIN (13C12, 99%) (72-20-8 (Unlabeled)) 12.037 Log Pow 5.2 ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465 Bioaccumulative potential Bioaccumulative potential Bioconcentration factor (BCF REACH) 46,670 Log Pow 6.91 MIREX (13C10, 98%) (2385-85-5 (Unlabeled)) 18100 Bioconcentration factor (BCF REACH) 18100 Log Pow 5.28 ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled)) 100 Pow Log Pow 3.8 2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled)) 100 Pow Log Pow 5.58 CIS-NONACHLOR (13C10, 98%) (5103-73-1 (Unlabeled) 100 Pow CIS-NONACHLOR (13C10, 98%) (5103-73-1 (Unlabeled) 100 Pow<				
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled)) Bioconcentration factor (BCF REACH) 14400 5.4 Bioaccumulative potential Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d. TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled)) 6.35 6.35 4,4*DDE (RING-13C12, 99%) (72-55-9 (Unlabeled)) 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.037 12.	CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3) Bioconcentration factor (BCF REACH) 14400 Log Pow 5.4 Bioaccumulative potential Bioaccu TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled)) CUNLAR Log Pow 6.35 4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled)) 12.037 Log Pow 6.51 ENDRIN (13C12, 99%) (72-20-8 (Unlabeled)) 12.037 Log Pow 5.2 ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465 Bioaccumulative potential Bioaccumulative potential Bioconcentration factor (BCF REACH) 46,670 Log Pow 6.91 MIREX (13C10, 98%) (2385-85-5 (Unlabeled)) 18100 Log Pow 5.28 ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled)) 18100 Log Pow 3.8 2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled)) 10 Pow Log Pow 5.58 CIS-NONACHLOR (13C10, 98%) (5103-73-1 (Unlabeled)) 10 Pow Log Pow 2.794 OCTACHLOROSTYRENE (13C8, 99%) (29082-74-4 (Unlabeled)) 10 Pow <td< td=""><td>mulation: Leuciscus idus (Golden orfe) - 3 d.</td></td<>	mulation: Leuciscus idus (Golden orfe) - 3 d.			
Idea	Bioconcentration factor (BCF REACH)	, ,			
Log Pow S.4 Bioaccumulative potential Bioaccumulative potential Pimephales promelas (fathead minnow)- 32d.	Log Pow Bioaccumulative potential Bioaccumulative potential Bioaccumulative potential Bioaccumulative potential Bioaccumulative potential G.35	Onlabeledjj			
Bioaccumulative potential Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d. TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled)) Log Pow [6.35] A,4*-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled)) BCF fish 1 [3.84 ug/l - Gambusia affinis (Mosquito fish) - 33 d Bioconcentration factor (BCF REACH) [12.037] Log Pow [6.51] ENDRIN (13C12, 99%) (72-20-8 (Unlabeled)) Log Pow [5.2] ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled)) Bioaccumulative potential [Bioaccumulation Leuciscus idus (Golden orfe); Bioconcentration factor (BCF): 3,890. 4,4*-DDT (RING-13C12, 99%) (104215-84-1) BCF fish 1 [0.001 mg/l Oncorthynchus mykiss (rainbow trout) - 20 d Bioconcentration factor (BCF REACH) [46,670] Log Pow [6.91] BIOCONCENTRATION [CHEMICAL PURITY 95%) (465-73-6 (Unlabeled)) BCF fish 1 [0.0012 mg/l Pimephales promelas (rainbow trout) - 32 d Bioconcentration factor (BCF REACH) [18100] BCF fish 1 [0.0012 mg/l Pimephales promelas (rainbow trout) - 32 d Bioconcentration factor (BCF REACH) [18100] BCF fish 1 [0.0012 mg/l Pimephales promelas (rainbow trout) - 32 d Bioconcentration factor (BCF REACH) [18100] BCF fish 1 [0.0012 mg/l Pimephales promelas (rainbow trout) - 32 d Bioconcentration factor (BCF REACH) [18100] BCF fish 1 [0.0012 mg/l Pimephales promelas (rainbow trout) - 32 d Bioconcentration factor (BCF REACH) [18100] Log Pow [5.28] ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled)) Log Pow [5.58] CISHONACHLOR (13C10, 98%) (5103-73-1 (Unlabeled)) Log Pow [6.29] TOLUEN UNLABELED (108-8-3) BCF fish 1 [0.05 mg/l Leuciscus idus (Golden orfe) - 3 d Bioconcentration factor (BCF REACH) [90] BSOCTANE UNLABELED (408-8-4) Log Pow [6.56] Bioconcentration factor (BCF REACH) [90] BSOCTANE UNLABELED (72-55-9)	Bioaccumulative potential Bioaccumulative potential Carlo Section Carlo				
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BCF fish 1	BCF fish 1 0.0012 Bioconcentration factor (BCF REACH) 18100 Log Pow 5.28 ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled)) Log Pow 3.8 2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled)) Log Pow 5.58 CIS-NONACHLOR (13C10, 98%) (5103-73-1 (Unlabeled Log Pow 2.794 OCTACHLOROSTYRENE (13C8, 99%) (29082-74-4 (Unlabeled Log Pow 6.29 TOLUENE UNLABELED (108-88-3) BCF fish 1 0.05 mg Bioconcentration factor (BCF REACH) 90 ISOOCTANE UNLABELED (540-84-1) Log Pow 4.6 N-NONANE UNLABELED (111-84-2)				
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Log Pow 5.65 Bioaccumulative potential Indication of bioaccumulation. 4,4'-DDE UNLABELED (72-55-9)	· ·				
Bioaccumulative potential Indication of bioaccumulation. 4,4'-DDE UNLABELED (72-55-9)	-				
4,4'-DDE UNLABELED (72-55-9)	Bioaccumulative potential Indicati	on of bioaccumulation.			
	·				
		// - Gambusia affinis (Mosquito fish) - 33 d			
Bioconcentration factor (BCF REACH) 12.037	3	. Sampasia annio (mooquito non) oo a			
Log Pow 6.51	2.4. Mobility in soil				
Log Pow	Ŭ				

12.4. Mobility in soil

No additional information available

Results of PBT and vPvB assessment

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TOLUENE UNLABELED (108-88-3)

PBT: not relevant - no registration required

12.6. Other adverse effects

No additional information available

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

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

Hazard identification number (Kemler No.) : 30

Orange plates

30 1920

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

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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)

: Flammable liquids Civil Aeronautics Law

Environmental hazards

Other information : No supplementary information available.

14.5. Special precautions for user

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

Not applicable

SECTION 15: Regulatory information

SARA Section 313 - Emission Reporting

15.1. US	S Federal	regulations	

15.1. US Federal regulations				
CDC POPS (W/ PARLARS) CALIBRATION SO	OLUTION CS9 (UNLABELED/13C, 99%) IN NONANE			
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.			
4,4'-DDT UNLABELED (50-29-3)				
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			
PARLAR 26 (13C10, 99%) (142534-71-2 (Unl	abeled))			
SARA Section 302 Threshold Planning Quantity (TPQ)	Listed on the United States SARA Section 302			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313			
PARLAR 50 (13C10, 99%) (66860-80-8 (Unla	beled))			
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.			
PARLAR 62 (13C10, 99%) (154159-06-5 (Unl	abeled))			
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.			
HEXACHLOROBENZENE (13C6, 99%) (9395	2-14-8)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302			
SARA Section 311/312 Hazard Classes	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 (Unlabele	d))			
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			
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Not subject to reporting requirements of the United States SARA Section 313

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LINDANE (13C6, 99%) (58-89-9 (Unlabeled))				
SARA Section 302 Threshold Planning Listed on the United States SARA Section 302				
Quantity (TPQ)				
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting	Subject to reporting requirements of 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			
CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (10	024-57-3 (Unlabeled))			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard			
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			
TRANS-NONACHLOR (13C10, 98%) (39765-80	-5 (Unlabeled))			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard			
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 (Unlabel	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			
DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabele	d))			
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			
ISODRIN (CHEMICAL PURITY 95%) (13C12, 9	9%) (465-73-6 (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	Subject to reporting requirements of United States SARA Section 313			
2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabo	eled))			
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	Not subject to reporting requirements of the United States SARA Section 302			
Quantity (TPQ)				

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4,4'-DDT (RING-13C12, 99%) (104215-84-1)					
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				
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				
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				
CIS-CHLORDANE (13C10, 99%) (475275-01-5)					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302				
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard				
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313				
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	(5103-74-2 (Unlabeled))				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302				
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard				
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 (Unlai	peled))				
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.				
CIS-NONACHLOR (13C10, 98%) (5103-73-1 (U	nlabeled))				
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				
METHOXYCHLOR (RING-13C12, 99%) (72-43-5	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 Delayed (chronic) health hazard				
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313				
PENTACHLOROANISOLE (13C6, 99%) (1825-2	21-4 (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				
OCTACHLOROSTYRENE (13C8, 99%) (29082-	74-4 (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 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313				
2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%) (234432-92-9)					
Not listed on the United States TSCA (Toxic Substances Control Act) inventory					
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.				
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.				

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3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%) (93703-48-1 (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			
2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99	%) (488710-25-4)			
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			
TOLUENE UNLABELED (108-88-3)				
Listed on the United States TSCA (Toxic Subst	ances Control Act) inventory			
CERCLA RQ	1000 lb			
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	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313			
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.			
N-NONANE UNLABELED (111-84-2)				
Listed on the United States TSCA (Toxic Subst	ances Control Act) inventory			
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.			
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C6, 99%) (30746-58-8 (Unlabeled))				
Not listed on the United States TSCA (Toxic Substances Control Act) inventory				
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			
4,4'-DDE UNLABELED (72-55-9)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313			
15.2. International regulations				

15.2. International regulations

CANADA

CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS9 (UNLABELED/13C, 99%) IN NONANE

Listed on the Canadian DSL (Domestic Substances List)

TOLUENE UNLABELED (108-88-3)

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

2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%) (234432-92-9)

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

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15.3. US State regulations					
CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS9 (UNLABELED/13C, 99%) IN NONANE()					
U.S California - Proposition 65 - Carcinogens List		No			
U.S California - Proposition 65 - Developmental Toxicity		No			
U.S California - Propositio Toxicity - Female	n 65 - Reproductive	No			
U.S California - Propositio Toxicity - Male	n 65 - Reproductive	No			
State or local regulations		U.S Pennsylvania - RTK (Rig U.S New Jersey - Right to Kn		t	
4,4'-DDT UNLABELED (50-	.20_3\				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)	
Yes	Yes	Yes	Yes		
PARLAR 26 (13C10, 99%)	(142534-71-2 (Unlabeled))				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 -	Proposition 65 -	(NSRL)	
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male		
Yes	No	No	No		
PARLAR 50 (13C10, 99%)	(66860-80-8 (Unlabeled))				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)	
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male		
No	No	No	No		
PARLAR 62 (13C10, 99%)	(154159-06-5 (Unlabeled))				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)	
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male		
No	No	No	No		
HEXACHLOROBENZENE (13C6, 99%) (93952-14-8)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity -	(NSRL)	
Odromogens List	Developmental Toxicity	Female	Male		
Yes	Yes	Yes	Yes		
BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))					
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity -	(NSRL)	
Carcinogens List	Developmental Toxicity	Female	Male		
Yes	No	No	No		
LINDANE (13C6, 99%) (58-	89-9 (Unlabeled))				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity -	(NSRL)	
No	Yes	Female Yes	Male Yes		
ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))					
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level	
Proposition 65 - Carcinogens List	Proposition 65 - Developmental Toxicity	Proposition 65 - Reproductive Toxicity - Female	Proposition 65 - Reproductive Toxicity - Male	(NSRL)	
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ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))			
Yes	No	No	No	
CIS-HEPTACHLOR EPO	OXIDE (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	
OXYCHLORDANE (13C	10, 99%) (27304-13-8 (Unlabele	ed))		
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	
TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unla	beled))		
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	
	99%) (72-55-9 (Unlabeled))			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	Yes	Yes	
DIELDRIN (13C12, 98-9	9%) (60-57-1 (Unlabeled))			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	No	No	No	
ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	Yes	Yes	
ISODRIN (CHEMICAL F	PURITY 95%) (13C12, 99%) (46	5-73-6 (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	
2,4'-DDT (RING-13C12,	99%) (789-02-6 (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	
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	

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MIREX (13C10, 98%) (23	385-85-5 (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	
ALPHA-BHC (13C6, 99°	%) (319-84-6 (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	
CIS-CHLORDANE (13C	10, 99%) (475275-01-5)	·		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
	GAMMA) (13C10, 99%) (5103-74			
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	
2,4'-DDE (RING-13C12,	99%) (3424-82-6 (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	
CIS-NONACHLOR (13C	10, 98%) (5103-73-1 (Unlabeled	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)
No	No	No	No	
METHOXYCHLOR (RIN	G-13C12, 99%) (72-43-5 (Unlab	eled))		
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	
PENTACHLOROANISO	LE (13C6, 99%) (1825-21-4 (Un	abeled))		
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	
OCTACHLOROSTYREN	NE (13C8, 99%) (29082-74-4 (Un	labeled))		
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	
2,2',3,3',4,5,5',6,6'-NON	ACB (PCB-208) (13C12, 99%) (234432-92-9)		
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)

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Yes 703-48-1 (Unlabeled)) U.S California - Proposition 65 - Reproductive Toxicity - Female No (488710-25-4) U.S California -	Ves U.S California - Proposition 65 - Reproductive Toxicity - Male No	No significant risk level (NSRL)
703-48-1 (Unlabeled)) U.S California - Proposition 65 - Reproductive Toxicity - Female No (488710-25-4)	U.S California - Proposition 65 - Reproductive Toxicity - Male	
703-48-1 (Unlabeled)) U.S California - Proposition 65 - Reproductive Toxicity - Female No (488710-25-4)	U.S California - Proposition 65 - Reproductive Toxicity - Male	
U.S California - Proposition 65 - Reproductive Toxicity - Female No (488710-25-4)	Proposition 65 - Reproductive Toxicity - Male	
Proposition 65 - Reproductive Toxicity - Female No (488710-25-4)	Proposition 65 - Reproductive Toxicity - Male	
(488710-25-4)	No	-
Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	
	-	
U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	
C6, 99%) (30746-58-8 (Unlabeled	d)))	
U.S California - Proposition 65 -	U.S California - Proposition 65 -	No significant risk level (NSRL)
No	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	
<u>'</u>		
	U.S California - Proposition 65 - Reproductive Toxicity - Female No U.S California - Proposition 65 - Reproductive Toxicity - Female No U.S California - Proposition 65 - Reproductive Toxicity - Female No U.S California - Proposition 65 - Reproductive Toxicity - Female No C6, 99%) (30746-58-8 (Unlabeled U.S California - Proposition 65 - Reproductive Toxicity - Female No U.S California - Proposition 65 - Reproductive Toxicity - Female No U.S California - Proposition 65 - Reproductive Toxicity - Female No	Female No No No U.S California - Proposition 65 - Reproductive Toxicity - Female No No No U.S California - Proposition 65 - Reproductive Toxicity - Female U.S California - Proposition 65 - Reproductive Toxicity - Female No No U.S California - Proposition 65 - Reproductive Toxicity - Female No No U.S California - Proposition 65 - Reproductive Toxicity - Female No No No C6, 99%) (30746-58-8 (Unlabeled)) U.S California - Proposition 65 - Reproductive Toxicity - Female No No U.S California - Proposition 65 - Reproductive Toxicity - Female No No U.S California - Proposition 65 - Reproductive Toxicity - Female No No No U.S California - Proposition 65 - Reproductive Toxicity - Female No No No No No U.S California - Proposition 65 - Reproductive Toxicity - Male No No No No No No No No No N

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

PARLAR 26 (13C10, 99%) (142534-71-2 (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

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PARLAR 50 (13C10, 99%) (66860-80-8 (Unlabeled))

State or local regulations

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

PARLAR 62 (13C10, 99%) (154159-06-5 (Unlabeled))

State or local regulations

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

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

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

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

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

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

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

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

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

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

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

U.S. - New Jersey - Right to Know Hazardous Substance List

ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (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

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

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

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

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

CIS-CHLORDANE (13C10, 99%) (475275-01-5)

State or local regulations

- 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'-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

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

METHOXYCHLOR (RING-13C12, 99%) (72-43-5 (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

PENTACHLOROANISOLE (13C6, 99%) (1825-21-4 (Unlabeled))

State or local regulations

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

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OCTACHLOROSTYRENE (13C8, 99%) (29082-74-4 (Unlabeled))

State or local regulations

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

2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%) (234432-92-9)

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Excluded Volatile Organic Compounds

3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%) (93703-48-1 (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

2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%) (488710-25-4)

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

TOLUENE UNLABELED (108-88-3)

State or local regulations

- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts 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

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

1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C6, 99%) (30746-58-8 (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 UNLABELED (72-55-9)

State or local regulations

- 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:

Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1
Acute Tox. 1 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 1

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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

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 toxicity (inhalation) Category 4
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Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Lact.	Reproductive toxicity (Lact.)
Repr. 2	Reproductive toxicity (Lact.) Reproductive toxicity Category 2
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Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
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
H300	Fatal if swallowed
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H310	Fatal in contact with skin
H311	Toxic in contact with skin
	Harmful in contact with skin
H312	
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H362	May cause harm to breast-fed children
H370	Causes damage to organs
H371	May cause damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
R10	Flammable
R11	Highly flammable
R20	Harmful by inhalation
R20/21	Harmful by inhalation and in contact with skin

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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

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R20/22	Harmful by inhalation and if swallowed
R21	Harmful in contact with skin
R22	Harmful if swallowed
R24	Toxic in contact with skin
R24/25	Toxic in contact with skin and if swallowed
R25	Toxic if swallowed
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
R27	Very toxic in contact with skin
R27/28	Very toxic in contact with skin and if swallowed
R28	Very toxic if swallowed
R36	Irritating to eyes
R36/37/38	Irritating to eyes, respiratory system and skin
R36/38	Irritating to eyes and skin
R37	Irritating to respiratory system
R38	Irritating to skin
R40	Limited evidence of a carcinogenic effect
R41	Risk of serious damage to eyes
R45	May cause cancer
R48	Danger of serious damage to health by prolonged exposure
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed
R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed
R49	May cause cancer by inhalation
R50	Very toxic to aquatic organisms
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child
R64	May cause harm to breastfed babies
R65	Harmful: may cause lung damage if swallowed
R67	Vapors may cause drowsiness and dizziness
R68	Possible risk of irreversible effects
F	Highly flammable
N	Dangerous for the environment
Т	Toxic
T+	Very toxic
Xi	Irritant
Xn	Harmful

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.

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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

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