



# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE

## 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: 16/03/2020

Revision date:

:

Version: 1.0

ES-5442-CS1

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

#### 1.1. Product identifier

Product form : Mixtures  
Product name : CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE  
Product code : ES-5442-CS1

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : For professional use only

##### 1.2.2. Uses advised against

No additional information available

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

Cambridge Isotope Laboratories, Inc.  
50 Frontage Road  
Andover, MA 01810  
USA

USA: 1-800-322-1174 Int: 1-978-749-8000  
[cilsales@isotope.com](mailto:cilsales@isotope.com) [www.isotope.com](http://www.isotope.com)

#### Emergency telephone number

Emergency numbers:

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

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

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

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)



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)



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 eye 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	99.83173677	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	0.09330377	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	0.07464092	Xi; R38 N; R50/53 R67 F; R11 Xn; R65
4,4'-DDE (RING-13C12, 99%)	(CAS-No.) 72-55-9 (Unlabeled) (EC-No.) 200-784-6 (Unlabeled)	0.00002088	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)	0.00001393	N; R50/53 R48
PARLAR 50 (13C10, 99%)	(CAS-No.) 66860-80-8 (Unlabeled)	0.00001045	Not classified
ALDRIN (13C12, 99%)	(CAS-No.) 309-00-2 (Unlabeled) (EC-No.) 206-215-8 (Unlabeled) (EC Index-No.) 602-048-00-3 (Unlabeled)	0.00001045	Carc.Cat.3; R40 T+; R27/28 T; R25 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	0.00001045	Carc.Cat.3; R40 T+; R27 T; R25 N; R50/53 R48
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)	0.00001045	T+; R26/27/28 N; R50/53
CIS-CHLORDANE (13C10, 99%)	(CAS-No.) 475275-01-5 (EC-No.) 225-825-5	0.00001045	T; R24 Xn; R20/22 Xi; R36/37/38 N; R50/53
CIS-NONACHLOR (13C10, 98%)	(CAS-No.) 5103-73-1 (Unlabeled)	0.00001045	N; R50/53
METHOXYCHLOR (RING-13C12, 99%)	(CAS-No.) 72-43-5 (Unlabeled) (EC-No.) 200-779-9	0.00001045	Xn; R20/21/22 Carc.Cat.3; R40 Xi; R36/37/38 N; R50/53

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%)	(CAS-No.) 93703-48-1 (Unlabeled)	0.00001045	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	0.00001045	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
PARLAR 26 (13C10, 99%)	(CAS-No.) 142534-71-2 (Unlabeled) (EC-No.) 208-759-1 (Unlabeled) (EC Index-No.) 601-009-00-8 (Unlabeled)	0.00001044	Xi; R36/37/38 Xn; R48/20 Muta.Cat.3; R68 Repr.Cat.3; R62 Repr.Cat.3; R63 N; R50/53
PARLAR 62 (13C10, 99%)	(CAS-No.) 154159-06-5 (Unlabeled) (EC Index-No.)	0.00001044	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)	0.00001044	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)	0.00001044	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	0.00001044	T; R25 Xn; R20/21 Xn; R48/22 R64 N; R50/53
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)	0.00001044	Carc.Cat.3; R40 T+; R28 N; R50/53 R48
OXYCHLORDANE (13C10, 99%)	(CAS-No.) 27304-13-8 (Unlabeled)	0.00001044	Carc.Cat.3; R40 T; R25 N; R50/53
TRANS-NONACHLOR (13C10, 98%)	(CAS-No.) 39765-80-5 (Unlabeled)	0.00001044	Xn; R22 Xi; R36/37/38 N; R50/53
ENDRIN (13C12, 99%)	(CAS-No.) 72-20-8 (Unlabeled) (EC-No.) 200-775-7 (EC Index-No.) 602-051-00-X	0.00001044	T+; R28 T; R24 N; R50/53
2,4'-DDT (RING-13C12, 99%)	(CAS-No.) 789-02-6 (Unlabeled) (EC-No.) 212-332-5 (Unlabeled)	0.00001044	N; R50/53 Xn; R22 Xi; R36/37/38 T; R48/25 Carc.Cat.1; R45
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)	0.00001044	Carc.Cat.3; R40 T; R25 N; R50/53

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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)	0.00001044	Carc.Cat.3; R40 Repr.Cat.3; R62 Repr.Cat.3; R63 T; R24/25 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	0.00001044	Carc.Cat.3; R40 T; R25 Xn; R21 N; R50/53
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	(CAS-No.) 5103-74-2 (Unlabeled) (EC-No.) 225-826-0	0.00001044	Carc.Cat.3; R40 Xn; R22 N; R50
2,4'-DDE (RING-13C12, 99%)	(CAS-No.) 3424-82-6 (Unlabeled) (EC-No.) 222-318-0	0.00001044	Carc.Cat.3; R40 Xn; R22 N; R50/53
PENTACHLOROANISOLE (13C6, 99%)	(CAS-No.) 1825-21-4 (Unlabeled)	0.00001044	Xn; R22 N; R50/53
OCTACHLOROSTYRENE (13C8, 99%)	(CAS-No.) 29082-74-4 (Unlabeled)	0.00001044	Xn; R22 N; R50/53
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C6, 99%)	(CAS-No.) 30746-58-8 (Unlabeled)	0.00000348	T+; R26/27/28 Carc.Cat.1; R45
HEXACHLOROBENZENE UNLABELED	(CAS-No.) 118-74-1 (EC-No.) 204-273-9 (EC Index-No.) 602-065-00-6	0.00000035	Xn; R20 N; R51/53
BETA-BHC UNLABELED	(CAS-No.) 319-85-7 (EC-No.) 206-271-3 (EC Index-No.) 602-042-00-0	0.00000035	N; R51/53
LINDANE UNLABELED	(CAS-No.) 58-89-9 (EC-No.) 200-401-2 (EC Index-No.) 602-043-00-6	0.00000035	T; R25 Xn; R20/21 Xn; R48/22 R64 N; R50/53
ALDRIN UNLABELED	(CAS-No.) 309-00-2 (EC-No.) 206-215-8 (EC Index-No.) 602-048-00-3	0.00000035	Carc.Cat.3; R40 T; R24/25 N; R50/53
CIS-HEPTACHLOR EPOXIDE UNLABELED	(CAS-No.) 1024-57-3 (EC-No.) 213-831-0 (EC Index-No.) 602-063-00-5	0.00000035	T+; R28 N; R50/53
OXYCHLORDANE UNLABELED	(CAS-No.) 27304-13-8	0.00000035	Carc.Cat.3; R40 T; R25 N; R50/53
TRANS-NONACHLOR UNLABELED	(CAS-No.) 39765-80-5	0.00000035	Xn; R22 N; R50/53
4,4'-DDE UNLABELED	(CAS-No.) 72-55-9 (EC-No.) 200-784-6	0.00000035	Xn; R22 Carc.Cat.3; R40 N; R50/53
DIELDRIN UNLABELED	(CAS-No.) 60-57-1 (EC-No.) 200-484-5 (EC Index-No.) 602-049-00-9	0.00000035	T+; R26 T; R24 N; R51/53
ENDRIN UNLABELED	(CAS-No.) 72-20-8 (EC-No.) 200-775-7 (EC Index-No.) 602-051-00-X	0.00000035	T+; R28 T; R24 N; R50/53
ISODRIN UNLABELED	(CAS-No.) 465-73-6 (EC-No.) 207-366-2 (EC Index-No.) 602-050-00-4	0.00000035	T+; R26/27/28 N; R50/53
2,4'-DDT UNLABELED (97% CHEMICAL PURITY)	(CAS-No.) 789-02-6 (EC-No.) 212-332-5	0.00000035	Carc.Cat.3; R40 T; R25 T; R48/25 N; R50/53

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4,4'-DDT UNLABELED	(CAS-No.) 50-29-3 (EC-No.) 200-024-3 (EC Index-No.) 602-045-00-7	0.00000035	Carc.Cat.3; R40 T; R25 N; R50/53
MIREX UNLABELED	(CAS-No.) 2385-85-5 (EC-No.) 219-196-6 (EC Index-No.) 602-077-00-1	0.00000035	Xn; R21/22 N; R50/53
ALPHA-BHC UNLABELED	(CAS-No.) 319-84-6 (EC-No.) 206-270-8 (EC Index-No.) 602-042-00-0	0.00000035	T; R25 N; R50/53 Xn; R21 Carc.Cat.3; R40
CIS-CHLORDANE(ALPHA) UNLABELED	(CAS-No.) 5103-71-9 (EC-No.) 225-825-5	0.00000035	Xn; R22 N; R50/53
TRANS-CHLORDANE (GAMMA) UNLABELED	(CAS-No.) 5103-74-2 (EC-No.) 226-938-2	0.00000035	Xn; R22 Carc.Cat.3; R40 N; R50/53
2,4'-DDE UNLABELED	(CAS-No.) 3424-82-6 (EC-No.) 222-318-0	0.00000035	Carc.Cat.3; R40 Xn; R22 N; R50/53
CIS-NONACHLOR UNLABELED	(CAS-No.) 5103-73-1	0.00000035	Xn; R22 N; R50
METHOXYCHLOR UNLABELED	(CAS-No.) 72-43-5 (EC-No.) 200-779-9	0.00000035	Carc.Cat.3; R40 Xn; R20/21/22 Xi; R36/37/38 N; R50/53
PENTACHLOROANISOLE UNLABELED	(CAS-No.) 1825-21-4	0.00000035	Xn; R22 N; R50/53
OCTACHLOROSTYRENE UNLABELED	(CAS-No.) 29082-74-4 (Unlabeled)	0.00000035	Xn; R22 N; R50/53
PARLAR 26 UNLABELED	(CAS-No.) 142534-71-2 (EC-No.) 208-759-1 (EC Index-No.) 601-009-00-8	0.00000035	F; R11 Xn; R22 Xn; R65 Xi; R38 N; R50/53 R67
PARLAR 50 UNLABELED	(CAS-No.) 66860-80-8	0.00000035	Not classified
PARLAR 62 UNLABELED	(CAS-No.) 154159-06-5	0.00000035	Not classified
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	99.83173677	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	0.09330377	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	0.07464092	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'-DDE (RING- <sup>13</sup> C12, 99%)	(CAS-No.) 72-55-9 (Unlabeled) (EC-No.) 200-784-6 (Unlabeled)	0.00002088	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) ( <sup>13</sup> C12, 99%)	(CAS-No.) 234432-92-9 (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00001393	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PARLAR 50 ( <sup>13</sup> C10, 99%)	(CAS-No.) 66860-80-8 (Unlabeled)	0.00001045	Not classified

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ALDRIN (13C12, 99%)	(CAS-No.) 309-00-2 (Unlabeled) (EC-No.) 206-215-8 (Unlabeled) (EC Index-No.) 602-048-00-3 (Unlabeled)	0.00001045	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
DIELDRIN (13C12, 98-99%)	(CAS-No.) 60-57-1 (Unlabeled) (EC-No.) 200-484-5 (EC Index-No.) 602-049-00-9	0.00001045	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
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)	0.00001045	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
CIS-CHLORDANE (13C10, 99%)	(CAS-No.) 475275-01-5 (EC-No.) 225-825-5	0.00001045	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
CIS-NONACHLOR (13C10, 98%)	(CAS-No.) 5103-73-1 (Unlabeled)	0.00001045	Acute Tox. 4 (Oral), H302 Aquatic Chronic 1, H410
METHOXYCHLOR (RING-13C12, 99%)	(CAS-No.) 72-43-5 (Unlabeled) (EC-No.) 200-779-9	0.00001045	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
3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%)	(CAS-No.) 93703-48-1 (Unlabeled)	0.00001045	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	0.00001045	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
PARLAR 26 (13C10, 99%)	(CAS-No.) 142534-71-2 (Unlabeled) (EC-No.) 208-759-1 (Unlabeled) (EC Index-No.) 601-009-00-8 (Unlabeled)	0.00001044	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 62 (13C10, 99%)	(CAS-No.) 154159-06-5 (Unlabeled) (EC Index-No.)	0.00001044	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)	0.00001044	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)	0.00001044	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/<sup>13</sup>C, 99%) IN NONANE

ES-5442-CS1

## Safety Data Sheet

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
LINDANE (13C6, 99%)	(CAS-No.) 58-89-9 (Unlabeled) (EC-No.) 200-401-2 (EC Index-No.) 602-043-00-6	0.00001044	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
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)	0.00001044	Acute Tox. 2 (Oral), H300 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
OXYCHLORDANE (13C10, 99%)	(CAS-No.) 27304-13-8 (Unlabeled)	0.00001044	Acute Tox. 4 (Oral), H302
TRANS-NONACHLOR (13C10, 98%)	(CAS-No.) 39765-80-5 (Unlabeled)	0.00001044	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
ENDRIN (13C12, 99%)	(CAS-No.) 72-20-8 (Unlabeled) (EC-No.) 200-775-7 (EC Index-No.) 602-051-00-X	0.00001044	Acute Tox. 1 (Oral), H300 Acute Tox. 2 (Dermal), H310 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)	0.00001044	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
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)	0.00001044	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 1, H410
MIREX (13C10, 98%)	(CAS-No.) 2385-85-5 (Unlabeled) (EC-No.) 219-196-6 (Unlabeled) (EC Index-No.) 602-077-00-1 (Unlabeled)	0.00001044	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
ALPHA-BHC (13C6, 99%)	(CAS-No.) 319-84-6 (Unlabeled) (EC-No.) 206-270-8 (EC Index-No.) 602-042-00-0	0.00001044	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	(CAS-No.) 5103-74-2 (Unlabeled) (EC-No.) 225-826-0	0.00001044	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	0.00001044	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PENTACHLOROANISOLE (13C6, 99%)	(CAS-No.) 1825-21-4 (Unlabeled)	0.00001044	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
OCTACHLOROSTYRENE (13C8, 99%)	(CAS-No.) 29082-74-4 (Unlabeled)	0.00001044	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C6, 99%)	(CAS-No.) 30746-58-8 (Unlabeled)	0.00000348	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Carc. 1A, H350
HEXACHLOROBENZENE UNLABELED	(CAS-No.) 118-74-1 (EC-No.) 204-273-9 (EC Index-No.) 602-065-00-6	0.00000035	Carc. 1B, H350 STOT SE 1, H370 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
BETA-BHC UNLABELED	(CAS-No.) 319-85-7 (EC-No.) 206-271-3 (EC Index-No.) 602-042-00-0	0.00000035	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410



# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/<sup>13</sup>C, 99%) IN NONANE

ES-5442-CS1

## Safety Data Sheet

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
LINDANE UNLABELED	(CAS-No.) 58-89-9 (EC-No.) 200-401-2 (EC Index-No.) 602-043-00-6	0.00000035	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 STOT RE 2, H373 Lact., H362 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
ALDRIN UNLABELED	(CAS-No.) 309-00-2 (EC-No.) 206-215-8 (EC Index-No.) 602-048-00-3	0.00000035	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
CIS-HEPTACHLOR EPOXIDE UNLABELED	(CAS-No.) 1024-57-3 (EC-No.) 213-831-0 (EC Index-No.) 602-063-00-5	0.00000035	Acute Tox. 2 (Oral), H300 Carc. 2, H351 STOT RE 2, H373 Aquatic Chronic 1, H410
OXYCHLORDANE UNLABELED	(CAS-No.) 27304-13-8	0.00000035	Acute Tox. 3 (Oral), H301 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
TRANS-NONACHLOR UNLABELED	(CAS-No.) 39765-80-5	0.00000035	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
4,4'-DDE UNLABELED	(CAS-No.) 72-55-9 (EC-No.) 200-784-6	0.00000035	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DIELDRIN UNLABELED	(CAS-No.) 60-57-1 (EC-No.) 200-484-5 (EC Index-No.) 602-049-00-9	0.00000035	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ENDRIN UNLABELED	(CAS-No.) 72-20-8 (EC-No.) 200-775-7 (EC Index-No.) 602-051-00-X	0.00000035	Acute Tox. 1 (Oral), H300 Acute Tox. 2 (Dermal), H310 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
ISODRIN UNLABELED	(CAS-No.) 465-73-6 (EC-No.) 207-366-2 (EC Index-No.) 602-050-00-4	0.00000035	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
2,4'-DDT UNLABELED (97% CHEMICAL PURITY)	(CAS-No.) 789-02-6 (EC-No.) 212-332-5	0.00000035	Acute Tox. 3 (Oral), H301 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) 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	0.00000035	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)
MIREX UNLABELED	(CAS-No.) 2385-85-5 (EC-No.) 219-196-6 (EC Index-No.) 602-077-00-1	0.00000035	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
ALPHA-BHC UNLABELED	(CAS-No.) 319-84-6 (EC-No.) 206-270-8 (EC Index-No.) 602-042-00-0	0.00000035	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CIS-CHLORDANE(ALPHA) UNLABELED	(CAS-No.) 5103-71-9 (EC-No.) 225-825-5	0.00000035	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/<sup>13</sup>C, 99%) IN NONANE

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## Safety Data Sheet

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
TRANS-CHLORDANE (GAMMA) UNLABELED	(CAS-No.) 5103-74-2 (EC-No.) 226-938-2	0.00000035	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
2,4'-DDE UNLABELED	(CAS-No.) 3424-82-6 (EC-No.) 222-318-0	0.00000035	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CIS-NONACHLOR UNLABELED	(CAS-No.) 5103-73-1	0.00000035	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400
METHOXYCHLOR UNLABELED	(CAS-No.) 72-43-5 (EC-No.) 200-779-9	0.00000035	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
PENTACHLOROANISOLE UNLABELED	(CAS-No.) 1825-21-4	0.00000035	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
OCTACHLOROSTYRENE UNLABELED	(CAS-No.) 29082-74-4 (Unlabeled)	0.00000035	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PARLAR 26 UNLABELED	(CAS-No.) 142534-71-2 (EC-No.) 208-759-1 (EC Index-No.) 601-009-00-8	0.00000035	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PARLAR 50 UNLABELED	(CAS-No.) 66860-80-8	0.00000035	Not classified
PARLAR 62 UNLABELED	(CAS-No.) 154159-06-5	0.00000035	Not classified

Name	Product identifier	%	GHS-US classification
N-NONANE UNLABELED	(CAS-No.) 111-84-2	99.83173677	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
TOLUENE UNLABELED	(CAS-No.) 108-88-3	0.09330377	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	0.07464092	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'-DDE (RING- <sup>13</sup> C12, 99%)	(CAS-No.) 72-55-9 (Unlabeled)	0.00002088	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) ( <sup>13</sup> C12, 99%)	(CAS-No.) 234432-92-9	0.00001393	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PARLAR 50 ( <sup>13</sup> C10, 99%)	(CAS-No.) 66860-80-8 (Unlabeled)	0.00001045	Not classified
ALDRIN ( <sup>13</sup> C12, 99%)	(CAS-No.) 309-00-2 (Unlabeled)	0.00001045	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
DIELDRIN ( <sup>13</sup> C12, 98-99%)	(CAS-No.) 60-57-1 (Unlabeled)	0.00001045	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

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/<sup>13</sup>C, 99%) IN NONANE

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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

Name	Product identifier	%	GHS-US classification
ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%)	(CAS-No.) 465-73-6 (Unlabeled)	0.00001045	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CIS-CHLORDANE (13C10, 99%)	(CAS-No.) 475275-01-5	0.00001045	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400
CIS-NONACHLOR (13C10, 98%)	(CAS-No.) 5103-73-1 (Unlabeled)	0.00001045	Acute Tox. 4 (Oral), H302 Aquatic Chronic 1, H410
METHOXYCHLOR (RING-13C12, 99%)	(CAS-No.) 72-43-5 (Unlabeled)	0.00001045	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
3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%)	(CAS-No.) 93703-48-1 (Unlabeled)	0.00001045	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	0.00001045	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
PARLAR 26 (13C10, 99%)	(CAS-No.) 142534-71-2 (Unlabeled)	0.00001044	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 62 (13C10, 99%)	(CAS-No.) 154159-06-5 (Unlabeled)	0.00001044	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	0.00001044	Carc. 1B, H350 STOT RE 1, H372 Aquatic Chronic 1, H410
BETA-BHC (13C6, 99%)	(CAS-No.) 319-85-7 (Unlabeled)	0.00001044	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)	0.00001044	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
CIS-HEPTACHLOR EPOXIDE (13C10, 99%)	(CAS-No.) 1024-57-3 (Unlabeled)	0.00001044	Acute Tox. 2 (Oral), H300 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400
OXYCHLORDANE (13C10, 99%)	(CAS-No.) 27304-13-8 (Unlabeled)	0.00001044	Acute Tox. 4 (Oral), H302
TRANS-NONACHLOR (13C10, 98%)	(CAS-No.) 39765-80-5 (Unlabeled)	0.00001044	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
ENDRIN (13C12, 99%)	(CAS-No.) 72-20-8 (Unlabeled)	0.00001044	Acute Tox. 1 (Oral), H300 Acute Tox. 2 (Dermal), H310 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/<sup>13</sup>C, 99%) IN NONANE

ES-5442-CS1

## Safety Data Sheet

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

Name	Product identifier	%	GHS-US classification
2,4'-DDT (RING- <sup>13</sup> C12, 99%)	(CAS-No.) 789-02-6 (Unlabeled)	0.00001044	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
4,4'-DDT (RING- <sup>13</sup> C12, 99%)	(CAS-No.) 104215-84-1	0.00001044	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 STOT RE 1, H372 Aquatic Chronic 1, H410
MIREX ( <sup>13</sup> C10, 98%)	(CAS-No.) 2385-85-5 (Unlabeled)	0.00001044	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ALPHA-BHC (13C6, 99%)	(CAS-No.) 319-84-6 (Unlabeled)	0.00001044	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	(CAS-No.) 5103-74-2 (Unlabeled)	0.00001044	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400
2,4'-DDE (RING- <sup>13</sup> C12, 99%)	(CAS-No.) 3424-82-6 (Unlabeled)	0.00001044	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PENTACHLOROANISOLE (13C6, 99%)	(CAS-No.) 1825-21-4 (Unlabeled)	0.00001044	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
OCTACHLOROSTYRENE (13C8, 99%)	(CAS-No.) 29082-74-4 (Unlabeled)	0.00001044	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C6, 99%)	(CAS-No.) 30746-58-8 (Unlabeled)	0.00000348	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Carc. 1A, H350
HEXACHLOROBENZENE UNLABELED	(CAS-No.) 118-74-1	0.00000035	Carc. 1B, H350 STOT SE 1, H370 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
BETA-BHC UNLABELED	(CAS-No.) 319-85-7	0.00000035	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LINDANE UNLABELED	(CAS-No.) 58-89-9	0.00000035	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Lact., H362 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ALDRIN UNLABELED	(CAS-No.) 309-00-2	0.00000035	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
CIS-HEPTACHLOR EPOXIDE UNLABELED	(CAS-No.) 1024-57-3	0.00000035	Acute Tox. 2 (Oral), H300 Carc. 2, H351 STOT RE 2, H373 Aquatic Chronic 1, H410
OXYCHLORDANE UNLABELED	(CAS-No.) 27304-13-8	0.00000035	Acute Tox. 3 (Oral), H301 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
TRANS-NONACHLOR UNLABELED	(CAS-No.) 39765-80-5	0.00000035	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

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/<sup>13</sup>C, 99%) IN NONANE

ES-5442-CS1

## Safety Data Sheet

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

Name	Product identifier	%	GHS-US classification
4,4'-DDE UNLABELED	(CAS-No.) 72-55-9	0.00000035	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DIELDRIN UNLABELED	(CAS-No.) 60-57-1	0.00000035	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ENDRIN UNLABELED	(CAS-No.) 72-20-8	0.00000035	Acute Tox. 1 (Oral), H300 Acute Tox. 2 (Dermal), H310 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ISODRIN UNLABELED	(CAS-No.) 465-73-6	0.00000035	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4'-DDT UNLABELED (97% CHEMICAL PURITY)	(CAS-No.) 789-02-6	0.00000035	Acute Tox. 3 (Oral), H301 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DDT UNLABELED	(CAS-No.) 50-29-3	0.00000035	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
MIREX UNLABELED	(CAS-No.) 2385-85-5	0.00000035	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ALPHA-BHC UNLABELED	(CAS-No.) 319-84-6	0.00000035	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CIS-CHLORDANE(ALPHA) UNLABELED	(CAS-No.) 5103-71-9	0.00000035	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
TRANS-CHLORDANE (GAMMA) UNLABELED	(CAS-No.) 5103-74-2	0.00000035	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4'-DDE UNLABELED	(CAS-No.) 3424-82-6	0.00000035	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CIS-NONACHLOR UNLABELED	(CAS-No.) 5103-73-1	0.00000035	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400
METHOXYCHLOR UNLABELED	(CAS-No.) 72-43-5	0.00000035	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PENTACHLOROANISOLE UNLABELED	(CAS-No.) 1825-21-4	0.00000035	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
OCTACHLOROSTYRENE UNLABELED	(CAS-No.) 29082-74-4 (Unlabeled)	0.00000035	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PARLAR 26 UNLABELED	(CAS-No.) 142534-71-2	0.00000035	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PARLAR 50 UNLABELED	(CAS-No.) 66860-80-8	0.00000035	Not classified

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Name	Product identifier	%	GHS-US classification
PARLAR 62 UNLABELED	(CAS-No.) 154159-06-5	0.0000035	Not classified

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area.
First-aid measures after inhalation	: When symptoms occur: go into open air and ventilate suspected area. If not breathing give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact	: Wash with plenty of soap and water. 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 eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

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

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

### 5.3. Advice for firefighters

Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Wear personal protective equipment. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

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

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

For containment	: Dike and contain spill. Dispose as hazardous waste. Comply with local regulations for disposal.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

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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	: Store in a well-ventilated place. Keep container tightly closed. Keep dry. Ground/bond container and receiving equipment.
Storage conditions	: Store at room temperature away from light and moisture.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

HEXACHLORO BENZENE UNLABELED (118-74-1)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0 mg/m <sup>3</sup> Central Nervous System impairment. Porphyrin effects. Skin damage.
ALDRIN UNLABELED (309-00-2)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> Skin contact does contribute to exposure. Confirmed animal carcinogen.
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.25 mg/m <sup>3</sup> Skin notation
DIELDRIN UNLABELED (60-57-1)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.25 mg/m <sup>3</sup> Liver damage. Central Nervous System convulsion. Danger of cutaneous absorption
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.25 mg/m <sup>3</sup> Skin notation
ENDRIN UNLABELED (72-20-8)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> Central Nervous System impairment, Headache, Liver damage
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> Danger of cutaneous absorption, not classifiable a a human carcinogen
4,4'-DDT UNLABELED (50-29-3)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> Liver damage. Confirmed animal carcinogen with unknown relevance to humans.
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> Skin notation
METHOXYCHLOR UNLABELED (72-43-5)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> Central nervous system impairment. Liver damage.
HEXACHLORO BENZENE (13C6, 99%) (93952-14-8)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.002 mg/m <sup>3</sup> Central Nervous System impairment. Porphyrin effects. Skin damage. Confirmed animal carcinogen with unknown relevance to humans. Danger of cutaneous absorption. USA. ACGIH Threshold Limit Values (TLV)
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	0.002 mg/m <sup>3</sup> 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/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> ACGIH Threshold Limit Values (TLV)

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<b>ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))</b>		
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/m <sup>3</sup> )	0.25 mg/m <sup>3</sup> 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/m <sup>3</sup> )	0.25 mg/m <sup>3</sup> USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
USA OSHA	OSHA PEL (STEL) (mg/m <sup>3</sup> )	0.25 mg/m <sup>3</sup> California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	Remark (OSHA)	Skin designation
<b>DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabeled))</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.25 mg/m <sup>3</sup> Liver damage. Central Nervous System convulsion. Danger of cutaneous absorption
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.25 mg/m <sup>3</sup> Skin notation
<b>ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> Central Nervous System impairment, Headache, Liver damage
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> Danger of cutaneous absorption, not classifiable a a human carcinogen
<b>4,4'-DDT (RING-13C12, 99%) (104215-84-1)</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> Liver damage. Confirmed animal carcinogen with unknown relevance to humans.
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup> Potential Occupational Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> Skin designation
<b>METHOXYCHLOR (RING-13C12, 99%) (72-43-5 (Unlabeled))</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> Central nervous system impairment. Liver damage.
<b>TOLUENE UNLABELED (108-88-3)</b>		
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/m <sup>3</sup> )	375 mg/m <sup>3</sup> USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	560 mg/m <sup>3</sup> USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm USA. NIOSH Recommended Exposure Limits



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TOLUENE UNLABELED (108-88-3)		
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	375 mg/m <sup>3</sup> 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/m <sup>3</sup> )	560 mg/m <sup>3</sup> 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
ISOCTANE 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
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1050 mg/m <sup>3</sup> 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/m <sup>3</sup> )	1050 mg/m <sup>3</sup> 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/m <sup>3</sup> )	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

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	: Liquid
Appearance	: Liquid
Color	: Colorless
Odor	: No data available

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Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
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
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
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, CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Inhalation: Harmful if inhaled.

CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/ <sup>13</sup> C, 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
HEXACHLOROBENZENE UNLABELED (118-74-1)	
LD50 oral rat	10000 mg/kg
LC50 inhalation rat (mg/l)	3600 mg/m <sup>3</sup>
Additional information	LD50 Inhalation Mouse 4,000 mg/m <sup>3</sup> . LC50 Inhalation Rabbit 1,800 mg/m <sup>3</sup> . LD50 Oral Mouse 4,000 mg/kg. LD50 Oral rabbit 2,600 mg/kg
BETA-BHC UNLABELED (319-85-7)	
LD50 oral rat	6000 mg/kg
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight

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<b>LINDANE UNLABELED (58-89-9)</b>	
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
<b>ALDRIN UNLABELED (309-00-2)</b>	
LD50 oral rat	39 mg/kg
ATE CLP (oral)	39.000 mg/kg body weight
ATE CLP (dermal)	5.000 mg/kg body weight
<b>CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3)</b>	
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
<b>OXYCHLORDANE UNLABELED (27304-13-8)</b>	
LD50 oral rat	457 mg/kg
ATE CLP (oral)	100.000 mg/kg body weight
<b>TRANS-NONACHLOR UNLABELED (39765-80-5)</b>	
LD50 oral rat	500 mg/kg
ATE CLP (oral)	500.000 mg/kg body weight
<b>4,4'-DDE UNLABELED (72-55-9)</b>	
LD50 oral rat	880 mg/kg
ATE CLP (oral)	880.000 mg/kg body weight
<b>DIELDRIN UNLABELED (60-57-1)</b>	
LD50 oral rat	38.3 mg/kg
ATE CLP (oral)	5.000 mg/kg body weight
ATE CLP (dermal)	5.000 mg/kg body weight
ATE CLP (dust, mist)	0.050 mg/l/4h
<b>ENDRIN UNLABELED (72-20-8)</b>	
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
<b>ISODRIN UNLABELED (465-73-6)</b>	
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 (gases)	10.000 ppmV/4h
ATE CLP (vapors)	0.050 mg/l/4h
ATE CLP (dust, mist)	0.005 mg/l/4h
<b>2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)</b>	
ATE CLP (oral)	100.000 mg/kg body weight
<b>4,4'-DDT UNLABELED (50-29-3)</b>	
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
<b>MIREX UNLABELED (2385-85-5)</b>	
LD50 oral rat	235 mg/kg
ATE CLP (oral)	235.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
<b>ALPHA-BHC UNLABELED (319-84-6)</b>	
LD50 oral rat	177 mg/kg
ATE CLP (oral)	177.000 mg/kg body weight

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<b>ALPHA-BHC UNLABELED (319-84-6)</b>	
ATE CLP (dermal)	1100.000 mg/kg body weight
<b>CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)</b>	
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 CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
<b>TRANS-CHLORDANE (GAMMA) UNLABELED (5103-74-2)</b>	
LD50 oral rat	1100 mg/kg
LD50 oral	275 mg/kg mouse
ATE CLP (oral)	1100.000 mg/kg body weight
<b>2,4'-DDE UNLABELED (3424-82-6)</b>	
LD50 oral rat	880 mg/kg
ATE CLP (oral)	880.000 mg/kg body weight
<b>CIS-NONACHLOR UNLABELED (5103-73-1)</b>	
ATE CLP (oral)	500.000 mg/kg body weight
<b>METHOXYCHLOR UNLABELED (72-43-5)</b>	
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
<b>PENTACHLOROANISOLE UNLABELED (1825-21-4)</b>	
LD50 oral rat	318 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Tremor. Behavioral:Muscle weakness.
ATE CLP (oral)	318.000 mg/kg body weight
<b>OCTACHLOROSTYRENE UNLABELED (29082-74-4 (Unlabeled))</b>	
LD50 oral rat	3710 mg/kg
ATE CLP (oral)	3710.000 mg/kg body weight
<b>HEXACHLOROENZENE (13C6, 99%) (93952-14-8)</b>	
LD50 oral rat	10000 mg/kg
LD50 oral	> 3000 mg/kg Guinea pig
LC50 inhalation rat (mg/l)	3600 mg/m <sup>3</sup>
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
<b>BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))</b>	
LD50 oral rat	6000 mg/kg
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
<b>LINDANE (13C6, 99%) (58-89-9 (Unlabeled))</b>	
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
<b>ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))</b>	
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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<b>ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))</b>	
ATE CLP (oral)	39.000 mg/kg body weight
ATE CLP (dermal)	15.000 mg/kg body weight
<b>CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))</b>	
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
<b>OXYCHLORDANE (13C10, 99%) (27304-13-8 (Unlabeled))</b>	
LD50 oral rat	457 mg/kg
ATE CLP (oral)	457.000 mg/kg body weight
<b>TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))</b>	
LD50 oral rat	500 mg/kg
ATE CLP (oral)	500.000 mg/kg body weight
<b>4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))</b>	
LD50 oral rat	880 mg/kg
ATE CLP (oral)	880.000 mg/kg body weight
<b>DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabeled))</b>	
LD50 dermal rabbit	250 mg/kg
LC50 inhalation rat (mg/l)	13 mg/m <sup>3</sup> 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
<b>ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))</b>	
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
<b>ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))</b>	
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
<b>2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))</b>	
ATE CLP (oral)	100.000 mg/kg body weight
<b>4,4'-DDT (RING-13C12, 99%) (104215-84-1)</b>	
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
<b>MIREX (13C10, 98%) (2385-85-5 (Unlabeled))</b>	
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
<b>ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled))</b>	
LD50 oral rat	177 mg/kg
ATE CLP (oral)	177.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
<b>CIS-CHLORDANE (13C10, 99%) (475275-01-5)</b>	
LD50 oral rat	500 mg/kg
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight

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<b>TRANS-CHLORDANE (GAMMA) (13C10, 99%) (5103-74-2 (Unlabeled))</b>	
LD50 oral rat	1100 mg/kg
ATE CLP (oral)	1100.000 mg/kg body weight
<b>2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))</b>	
LD50 oral rat	880 mg/kg
ATE CLP (oral)	880.000 mg/kg body weight
<b>CIS-NONACHLOR (13C10, 98%) (5103-73-1 (Unlabeled))</b>	
ATE CLP (oral)	500.000 mg/kg body weight
<b>METHOXYCHLOR (RING-13C12, 99%) (72-43-5 (Unlabeled))</b>	
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
<b>PENTACHLOROANISOLE (13C6, 99%) (1825-21-4 (Unlabeled))</b>	
ATE CLP (oral)	500.000 mg/kg body weight
<b>OCTACHLOROSTYRENE (13C8, 99%) (29082-74-4 (Unlabeled))</b>	
LD50 oral rat	3710 mg/kg
ATE CLP (oral)	3710.000 mg/kg body weight
<b>TOLUENE UNLABELED (108-88-3)</b>	
LD50 oral rat	> 5580 mg/kg
LD50 dermal rabbit	12196 mg/kg
LC50 inhalation rat (mg/l)	12,500 - 28,800 mg/m <sup>3</sup> - 4 h
ATE CLP (dermal)	12196.000 mg/kg body weight
ATE CLP (vapors)	12.500 mg/l/4h
ATE CLP (dust, mist)	12.500 mg/l/4h
<b>ISOCTANE UNLABELED (540-84-1)</b>	
LD50 oral rat	> 5000 mg/kg (OECD Test Guideline 401)
LD50 dermal rabbit	> 2000 mg/kg (OECD Test Guideline 402)
LC50 inhalation rat (mg/l)	> 33.52 mg/l/4h (OECD Test Guideline 403)
<b>N-NONANE UNLABELED (111-84-2)</b>	
LC50 inhalation rat (mg/l)	23760 mg/m <sup>3</sup> male - 4 h
ATE CLP (vapors)	11.000 mg/l/4h
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)
Additional information	: S. Typhimurium Result: negative
<b>1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C6, 99%) (30746-58-8 (Unlabeled))</b>	
ATE CLP (oral)	5.000 mg/kg body weight
ATE CLP (dermal)	5.000 mg/kg body weight
ATE CLP (dust, mist)	0.050 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: May cause drowsiness or dizziness.
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.
Symptoms/effects after inhalation	: Harmful if inhaled.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.

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### 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.

HEXACHLOROBENZENE UNLABELED (118-74-1)	
LC50 fish 1	7.6 mg/l <i>Lepomis macrochirus</i> (Bluegill) -96h
EC50 Daphnia 1	> 0.005 mg/l <i>Daphnia magna</i> (Water flea) -48h
NOEC (chronic)	> 0.0048 mg/l <i>Pimephales promelas</i> (fathead minnow) -96h
BETA-BHC UNLABELED (319-85-7)	
LC50 fish 1	1.6 mg/l <i>Poecilia reticulata</i> (guppy) -96h
LINDANE UNLABELED (58-89-9)	
LC50 fish 1	0.2 mg/l <i>Cyprinus carpio</i> (Carp) - 96 h
EC50 Daphnia 1	0.8 - 6.5 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
ErC50 (algae)	4 mg/l 72 h
NOEC chronic fish	0.056 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 3 d
ALDRIN UNLABELED (309-00-2)	
LC50 fish 1	0.01 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 96 h
EC50 Daphnia 1	0.03 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3)	
LC50 fish 1	0.02 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) -96h
EC50 Daphnia 1	0.24 mg/l <i>Daphnia magna</i> (Water flea) -48h
TRANS-NONACHLOR UNLABELED (39765-80-5)	
EC50 Daphnia 1	0.022 mg/l <i>Daphnia pulex</i> (Water flea) - 48 h
4,4'-DDE UNLABELED (72-55-9)	
LC50 fish 1	0.2 - 0.3 mg/l <i>Lepomis macrochirus</i> (Bluegill) - 96 h
LC50 other aquatic organisms 1	0.05 - 0.18 mg/l <i>Salmo salar</i> (Atlantic salmon) - 96 h
LC50 fish 2	0.03 - 0.04 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 96 h
DIELDRIN UNLABELED (60-57-1)	
LC50 fish 1	1.6 mg/l <i>Carassius auratus</i> (goldfish) - 96 h
EC50 Daphnia 1	79.5 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
ENDRIN UNLABELED (72-20-8)	
LC50 fish 1	< 0.001 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) -96h
EC50 Daphnia 1	0.02 mg/l <i>Daphnia pulex</i> (Water flea) -48h
Additional information	Immobilization EC50- <i>Daphnia magna</i> (water flea)-0.0042 mg/l-48h
ISODRIN UNLABELED (465-73-6)	
LC50 fish 1	0.012 mg/l <i>Lepomis macrochirus</i> - 24 h
2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)	
LC50 fish 1	0.03 mg/l Other fish - 24 h
4,4'-DDT UNLABELED (50-29-3)	
LC50 fish 1	0.01 mg/l <i>Pimephales promelas</i> (fathead minnow) - 96 h
EC50 Daphnia 1	0.00108 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
ErC50 (algae)	> 20 mg/l <i>Scenedesmus quadricauda</i> (Green Algae) - 7 d
ErC50 (other aquatic plants)	113 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 3 d
NOEC (chronic)	113 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 3 d
MIREX UNLABELED (2385-85-5)	
LC50 fish 1	0.023 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) -96h
EC50 Daphnia 1	2.6 mg/l <i>Daphnia magna</i> (Water flea) -2.6mg/L-48h
ALPHA-BHC UNLABELED (319-84-6)	
LC50 fish 1	0.12 mg/l <i>Carassius auratus</i> (Goldfish) - 48 h
LC50 other aquatic organisms 1	1.49 mg/l Other fish - 96 h
EC50 Daphnia 1	0.2 - 1.7 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
LC50 fish 2	0.2 mg/l <i>Cyprinus carpio</i> (Carp) - 48 h
ErC50 (algae)	> 100 mg/l No information available - 48 h

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<b>CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)</b>	
LC50 fish 1	0.0074 mg/l <i>Lepomis macrochirus</i> (Bluegill) -96h
<b>TRANS-CHLORDANE (GAMMA) UNLABELED (5103-74-2)</b>	
LC50 fish 1	0.05 mg/l <i>Lepomis machrochirus</i> - 96 h
<b>METHOXYCHLOR UNLABELED (72-43-5)</b>	
LC50 fish 1	0.03 mg/l <i>Oncorhynchus mykiss</i> (Rainbow trout) - 96 h
EC50 Daphnia 1	0.016 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
<b>PENTACHLOROANISOLE UNLABELED (1825-21-4)</b>	
LC50 fish 1	0.65 mg/l LC50 - <i>Pimephales promelas</i> (fathead minnow) - 96 h
EC50 Daphnia 1	0.027 mg/l mortality EC50 - <i>Daphnia magna</i> - 48 h
EC50 other aquatic organisms 1	0.027 mg/l mortality EC50 - Water flea - 48 h
<b>HEXACHLOROBENZENE (13C6, 99%) (93952-14-8)</b>	
LC50 fish 1	7.6 mg/l <i>Lepomis macrochirus</i> (Bluegill) - 96 h
EC50 other aquatic organisms 1	> 0.005 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
NOEC (chronic)	> 0.0048 mg/l <i>Pimephales promelas</i> (fathead minnow) - 96 h
<b>BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))</b>	
LC50 fish 1	1.6 mg/l <i>Poecilia reticulata</i> (guppy) - 96 h
<b>LINDANE (13C6, 99%) (58-89-9 (Unlabeled))</b>	
LC50 fish 1	0.2 mg/l <i>Cyprinus carpio</i> (Carp) - 96 h
EC50 Daphnia 1	0.8 - 6.5 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
ErC50 (algae)	4 mg/l 72 h
NOEC chronic fish	0.056 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 3 d
<b>ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))</b>	
LC50 fish 1	0.01 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 96 h
EC50 Daphnia 1	0.03 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
<b>CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))</b>	
LC50 fish 1	0.02 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 96 h
EC50 Daphnia 1	0.24 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
<b>TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))</b>	
EC50 Daphnia 1	0.022 mg/l <i>Daphnia pulex</i> (Water flea) - 48 h
<b>4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))</b>	
LC50 fish 1	0.2 - 0.3 mg/l <i>Lepomis macrochirus</i> (Bluegill) - 96 h
LC50 other aquatic organisms 1	0.05 - 0.18 mg/l <i>Salmo salar</i> (Atlantic salmon) - 96 h
LC50 fish 2	0.03 - 0.04 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 96 h
<b>DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabeled))</b>	
LC50 fish 1	1.6 mg/l <i>Carassius auratus</i> (goldfish) - 96 h
EC50 Daphnia 1	79.5 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
<b>ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))</b>	
LC50 fish 1	< 0.001 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 96 h
EC50 Daphnia 1	>= 0.02 mg/l <i>Daphnia pulex</i> (Water flea) - 48 h
<b>ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))</b>	
LC50 fish 1	0.012 mg/l <i>Lepomis macrochirus</i> - 24 h
<b>2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))</b>	
LC50 fish 1	0.03 mg/l Other fish - 24 h
<b>4,4'-DDT (RING-13C12, 99%) (104215-84-1)</b>	
LC50 fish 1	0.01 mg/l <i>Pimephales promelas</i> (fathead minnow) - 96 h
LC50 other aquatic organisms 1	0.01 mg/l <i>Lepomis macrochirus</i> (Bluegill) - 96.0 h
EC50 Daphnia 1	0.00108 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
LC50 fish 2	0.0034 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 96 h
ErC50 (other aquatic plants)	> 20 mg/l <i>Scenedesmus quadricauda</i> (Green algae) - 7 d
LOEC (chronic)	150 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 96 h
NOEC (chronic)	113 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 3 d
<b>MIREX (13C10, 98%) (2385-85-5 (Unlabeled))</b>	
LC50 fish 1	0.023 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 96 h



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<b>MIREX (<sup>13</sup>C10, 98%) (2385-85-5 (Unlabeled))</b>	
EC50 Daphnia 1	2.6 mg/l Daphnia magna (Water flea) - 48 h
<b>ALPHA-BHC (<sup>13</sup>C6, 99%) (319-84-6 (Unlabeled))</b>	
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
<b>CIS-CHLORDANE (<sup>13</sup>C10, 99%) (475275-01-5)</b>	
LC50 fish 1	0.0074 mg/l - Lepomis macrochirus (Bluegill) - 96 h
<b>TRANS-CHLORDANE (GAMMA) (<sup>13</sup>C10, 99%) (5103-74-2 (Unlabeled))</b>	
LC50 fish 1	0.05 mg/l Lepomis macrochirus - 96 h
<b>METHOXYCHLOR (RING-<sup>13</sup>C12, 99%) (72-43-5 (Unlabeled))</b>	
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
<b>PENTACHLOROANISOLE (<sup>13</sup>C6, 99%) (1825-21-4 (Unlabeled))</b>	
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
<b>TOLUENE UNLABELED (108-88-3)</b>	
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

### 12.2. Persistence and degradability

<b>LINDANE (<sup>13</sup>C6, 99%) (58-89-9 (Unlabeled))</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.
<b>2,4'-DDT (RING-<sup>13</sup>C12, 99%) (789-02-6 (Unlabeled))</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.
<b>2,4'-DDE (RING-<sup>13</sup>C12, 99%) (3424-82-6 (Unlabeled))</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.
<b>TOLUENE UNLABELED (108-88-3)</b>	
Persistence and degradability	Readily biodegradable.

### 12.3. Bioaccumulative potential

<b>HEXACHLOROBENZENE UNLABELED (118-74-1)</b>	
Bioconcentration factor (BCF REACH)	22000
Bioaccumulative potential	Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d.
<b>BETA-BHC UNLABELED (319-85-7)</b>	
Bioconcentration factor (BCF REACH)	500
Log Pow	3.78
Bioaccumulative potential	Bioaccumulative potential Cyprinus carpio (Carp)-35d-0.05 mg/l.
<b>ALDRIN UNLABELED (309-00-2)</b>	
Log Pow	6.5
<b>CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3)</b>	
Bioconcentration factor (BCF REACH)	14400
Log Pow	5.4
Bioaccumulative potential	Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d.
<b>TRANS-NONACHLOR UNLABELED (39765-80-5)</b>	
Log Pow	6.35
<b>4,4'-DDE UNLABELED (72-55-9)</b>	
BCF fish 1	3.84 ug/l - Gambusia affinis (Mosquito fish) - 33 d
Bioconcentration factor (BCF REACH)	12.037
Log Pow	6.51
<b>ENDRIN UNLABELED (72-20-8)</b>	
Bioconcentration factor (BCF REACH)	13000

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/<sup>13</sup>C, 99%) IN NONANE

ES-5442-CS1

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<b>ENDRIN UNLABELED (72-20-8)</b>	
Log Pow	5.2
Bioaccumulative potential	Pimephales promela (fathead minnow)-56d-0.63 mg/l.
<b>ISODRIN UNLABELED (465-73-6)</b>	
Bioconcentration factor (BCF REACH)	3,890 Leuciscus idus (Golden orfe)
<b>2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)</b>	
Bioconcentration factor (BCF REACH)	37000 Pimephales promelas (fathead minnow) - 32 d
<b>4,4'-DDT UNLABELED (50-29-3)</b>	
BCF fish 1	Oncorhynchus mykiss (rainbow trout) - 20 d
Bioconcentration factor (BCF REACH)	46670
Log Pow	6.91
<b>MIREX UNLABELED (2385-85-5)</b>	
Bioconcentration factor (BCF REACH)	18100
Log Pow	5.28
Bioaccumulative potential	Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d.
<b>ALPHA-BHC UNLABELED (319-84-6)</b>	
BCF fish 1	0.8 mg/l Other - 96 h
Bioconcentration factor (BCF REACH)	250
Log Pow	3.8
<b>CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)</b>	
Bioconcentration factor (BCF REACH)	332
Bioaccumulative potential	Lepomis macrochirus (Bluegill)-24h.
<b>2,4'-DDE UNLABELED (3424-82-6)</b>	
Log Pow	5.58
<b>CIS-NONACHLOR UNLABELED (5103-73-1)</b>	
Log Pow	2.794
<b>METHOXYCHLOR UNLABELED (72-43-5)</b>	
Bioconcentration factor (BCF REACH)	8300
<b>OCTACHLOROSTYRENE UNLABELED (29082-74-4 (Unlabeled))</b>	
Bioconcentration factor (BCF REACH)	33000
Log Pow	6.29
Bioaccumulative potential	Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d.
<b>PARLAR 26 UNLABELED (142534-71-2)</b>	
Log Pow	4.6
<b>PARLAR 26 (<sup>13</sup>C10, 99%) (142534-71-2 (Unlabeled))</b>	
Log Pow	4.6
<b>HEXACHLOROBENZENE (13C6, 99%) (93952-14-8)</b>	
Bioconcentration factor (BCF REACH)	22000
Bioaccumulative potential	Bioaccumulation Pimephale promelas (fathead minnow) - 32 d - 0.0003 mg/l.
<b>BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))</b>	
BCF fish 1	Cyprinus carpio (Carp) - 35 d - 0.05 mg/l
Log Pow	3.78
<b>LINDANE (13C6, 99%) (58-89-9 (Unlabeled))</b>	
BCF fish 1	0.0091 mg/l Bioaccumulation Pimephales promels (fathead minnow) - 304 d
Bioconcentration factor (BCF REACH)	674
Log Pow	3.5 at 22 °C (72 °F)
<b>ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))</b>	
Bioconcentration factor (BCF REACH)	3700
Log Pow	6.5
Bioaccumulative potential	Bioaccumulation: Leuciscus idus (Golden orfe) - 3 d.
<b>CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))</b>	
Bioconcentration factor (BCF REACH)	14400
Log Pow	5.4
Bioaccumulative potential	Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d.

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<b>TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))</b>	
Log Pow	6.35
<b>4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))</b>	
BCF fish 1	3.84 ug/l - Gambusia affinis (Mosquito fish) - 33 d
Bioconcentration factor (BCF REACH)	12.037
Log Pow	6.51
<b>ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))</b>	
Log Pow	5.2
<b>ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))</b>	
Bioaccumulative potential	Bioaccumulation Leuciscus idus (Golden orfe); Bioconcentration factor (BCF): 3,890.
<b>4,4'-DDT (RING-13C12, 99%) (104215-84-1)</b>	
BCF fish 1	0.001 mg/l Oncorhynchus mykiss (rainbow trout) - 20 d
Bioconcentration factor (BCF REACH)	46,670
Log Pow	6.91
<b>MIREX (13C10, 98%) (2385-85-5 (Unlabeled))</b>	
BCF fish 1	0.0012 mg/l Pimephales promelas (rainbow trout) - 32 d
Bioconcentration factor (BCF REACH)	18100
Log Pow	5.28
<b>ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled))</b>	
Log Pow	3.8
<b>2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))</b>	
Log Pow	5.58
<b>CIS-NONACHLOR (13C10, 98%) (5103-73-1 (Unlabeled))</b>	
Log Pow	2.794
<b>OCTACHLOROSTYRENE (13C8, 99%) (29082-74-4 (Unlabeled))</b>	
Log Pow	6.29
<b>TOLUENE UNLABELED (108-88-3)</b>	
BCF fish 1	0.05 mg/l Leuciscus idus (Golden orfe) - 3 d
Bioconcentration factor (BCF REACH)	90
<b>ISOCTANE UNLABELED (540-84-1)</b>	
Log Pow	4.6
<b>N-NONANE UNLABELED (111-84-2)</b>	
Log Pow	5.65
Bioaccumulative potential	Indication of bioaccumulation.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

#### 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

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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



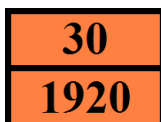
Packing group (DOT) : III - Minor Danger  
DOT Special Provisions (49 CFR 172.102) : B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 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 :



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

### Transport by sea

DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.  
MFAG-No : 128

### Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L  
Civil Aeronautics Law : Flammable liquids

### 14.4. Environmental hazards

Other information : No supplementary information available.

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### 14.5. Special precautions for user

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
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#### HEXACHLOROBENZENE UNLABELED (118-74-1)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
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SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
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#### BETA-BHC UNLABELED (319-85-7)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
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#### LINDANE UNLABELED (58-89-9)

SARA Section 302 Threshold Planning Quantity (TPQ)	Subject to reporting requirements of United States SARA Section 302
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SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313
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#### ALDRIN UNLABELED (309-00-2)

SARA Section 302 Threshold Planning Quantity (TPQ)	Listed on the United States SARA Section 302
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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313
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#### CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
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#### OXYCHLORDANE UNLABELED (27304-13-8)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
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#### TRANS-NONACHLOR UNLABELED (39765-80-5)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
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#### 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
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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
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#### DIELDRIN UNLABELED (60-57-1)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
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<b>ENDRIN UNLABELED (72-20-8)</b>	
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
<b>ISODRIN UNLABELED (465-73-6)</b>	
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
<b>2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)</b>	
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
<b>4,4'-DDT UNLABELED (50-29-3)</b>	
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
<b>MIREX UNLABELED (2385-85-5)</b>	
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
<b>ALPHA-BHC UNLABELED (319-84-6)</b>	
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 Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313
<b>CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)</b>	
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
<b>TRANS-CHLORDANE (GAMMA) UNLABELED (5103-74-2)</b>	
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.
<b>2,4'-DDE UNLABELED (3424-82-6)</b>	
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
<b>CIS-NONACHLOR UNLABELED (5103-73-1)</b>	
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

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<b>METHOXYCHLOR UNLABELED (72-43-5)</b>	
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
<b>PENTACHLOROANISOLE UNLABELED (1825-21-4)</b>	
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
<b>OCTACHLOROSTYRENE UNLABELED (29082-74-4 (Unlabeled))</b>	
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
<b>PARLAR 26 UNLABELED (142534-71-2)</b>	
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
<b>PARLAR 50 UNLABELED (66860-80-8)</b>	
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
<b>PARLAR 62 UNLABELED (154159-06-5)</b>	
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
<b>PARLAR 26 (13C10, 99%) (142534-71-2 (Unlabeled))</b>	
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
<b>PARLAR 50 (13C10, 99%) (66860-80-8 (Unlabeled))</b>	
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.
<b>PARLAR 62 (13C10, 99%) (154159-06-5 (Unlabeled))</b>	
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.
<b>HEXACHLOROBENZENE (13C6, 99%) (93952-14-8)</b>	
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
<b>BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))</b>	
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
<b>LINDANE (13C6, 99%) (58-89-9 (Unlabeled))</b>	
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

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<b>ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))</b>	
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
<b>CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))</b>	
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
<b>OXYCHLORDANE (13C10, 99%) (27304-13-8 (Unlabeled))</b>	
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
<b>TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))</b>	
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
<b>4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))</b>	
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
<b>DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabeled))</b>	
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
<b>ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))</b>	
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
<b>ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))</b>	
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
<b>2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))</b>	
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.
<b>4,4'-DDT (RING-13C12, 99%) (104215-84-1)</b>	
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
<b>MIREX (13C10, 98%) (2385-85-5 (Unlabeled))</b>	
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



# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE

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## 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

<b>MIREX (13C10, 98%) (2385-85-5 (Unlabeled))</b>	
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
<b>ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled))</b>	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
<b>CIS-CHLORDANE (13C10, 99%) (475275-01-5)</b>	
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
<b>TRANS-CHLORDANE (GAMMA) (13C10, 99%) (5103-74-2 (Unlabeled))</b>	
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
<b>2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))</b>	
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.
<b>CIS-NONACHLOR (13C10, 98%) (5103-73-1 (Unlabeled))</b>	
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
<b>METHOXYCHLOR (RING-13C12, 99%) (72-43-5 (Unlabeled))</b>	
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
<b>PENTACHLOROANISOLE (13C6, 99%) (1825-21-4 (Unlabeled))</b>	
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
<b>OCTACHLOROSTYRENE (13C8, 99%) (29082-74-4 (Unlabeled))</b>	
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
<b>2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%) (234432-92-9)</b>	
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.
<b>3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%) (93703-48-1 (Unlabeled))</b>	
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
<b>2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%) (488710-25-4)</b>	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE

ES-5442-CS1

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

<b>TOLUENE UNLABELED (108-88-3)</b>	
Listed on the United States TSCA (Toxic Substances 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

<b>ISOOCTANE UNLABELED (540-84-1)</b>	
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 Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

<b>N-NONANE UNLABELED (111-84-2)</b>	
Listed on the United States TSCA (Toxic Substances 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.

<b>1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C6, 99%) (30746-58-8 (Unlabeled))</b>	
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

### 15.2. International regulations

#### CANADA

<b>CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>TOLUENE UNLABELED (108-88-3)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>N-NONANE UNLABELED (111-84-2)</b>	
Listed on the Canadian DSL (Domestic Substances List)	
<b>1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C6, 99%) (30746-58-8 (Unlabeled))</b>	

#### 15.2.1. National regulations

<b>2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%) (234432-92-9)</b>	
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)	

### 15.3. US State regulations

<b>CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE()</b>	
U.S. - California - Proposition 65 - Carcinogens List	No
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
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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<b>HEXACHLOROBENZENE UNLABELED (118-74-1)</b>				
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	
<b>BETA-BHC UNLABELED (319-85-7)</b>				
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	
<b>LINDANE UNLABELED (58-89-9)</b>				
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	
<b>ALDRIN UNLABELED (309-00-2)</b>				
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	
<b>CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3)</b>				
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	
<b>OXYCHLORDANE UNLABELED (27304-13-8)</b>				
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	
<b>TRANS-NONACHLOR UNLABELED (39765-80-5)</b>				
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	
<b>4,4'-DDE UNLABELED (72-55-9)</b>				
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	
<b>DIELDRIN UNLABELED (60-57-1)</b>				
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	
<b>ENDRIN UNLABELED (72-20-8)</b>				
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	

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE

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<b>ENDRIN UNLABELED (72-20-8)</b>				
		Female	Male	
No	Yes	Yes	Yes	
<b>ISODRIN UNLABELED (465-73-6)</b>				
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	
<b>2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)</b>				
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	
<b>4,4'-DDT UNLABELED (50-29-3)</b>				
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	
<b>MIREX UNLABELED (2385-85-5)</b>				
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	
<b>ALPHA-BHC UNLABELED (319-84-6)</b>				
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	
<b>CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)</b>				
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	
<b>TRANS-CHLORDANE (GAMMA) UNLABELED (5103-74-2)</b>				
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	
<b>2,4'-DDE UNLABELED (3424-82-6)</b>				
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	
<b>CIS-NONACHLOR UNLABELED (5103-73-1)</b>				
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)

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE

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<b>CIS-NONACHLOR UNLABELED (5103-73-1)</b>				
No	No	No	No	
<b>METHOXYCHLOR UNLABELED (72-43-5)</b>				
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	
<b>PENTACHLOROANISOLE UNLABELED (1825-21-4)</b>				
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	
<b>OCTACHLOROSTYRENE UNLABELED (29082-74-4 (Unlabeled))</b>				
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	
<b>PARLAR 26 UNLABELED (142534-71-2)</b>				
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	
<b>PARLAR 50 UNLABELED (66860-80-8)</b>				
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	
<b>PARLAR 62 UNLABELED (154159-06-5)</b>				
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	
<b>PARLAR 26 (13C10, 99%) (142534-71-2 (Unlabeled))</b>				
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	
<b>PARLAR 50 (13C10, 99%) (66860-80-8 (Unlabeled))</b>				
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	
<b>PARLAR 62 (13C10, 99%) (154159-06-5 (Unlabeled))</b>				
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	

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE

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<b>HEXACHLOROBENZENE (13C6, 99%) (93952-14-8)</b>				
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	
<b>BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))</b>				
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	
<b>LINDANE (13C6, 99%) (58-89-9 (Unlabeled))</b>				
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	
<b>ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))</b>				
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	
<b>CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))</b>				
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	
<b>OXYCHLORDANE (13C10, 99%) (27304-13-8 (Unlabeled))</b>				
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	
<b>TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))</b>				
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	
<b>4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))</b>				
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	
<b>DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabeled))</b>				
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	
<b>ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))</b>				
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	

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE

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<b>ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))</b>				
		Female	Male	
No	Yes	Yes	Yes	
<b>ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))</b>				
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	
<b>2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))</b>				
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	
<b>4,4'-DDT (RING-13C12, 99%) (104215-84-1)</b>				
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	
<b>MIREX (13C10, 98%) (2385-85-5 (Unlabeled))</b>				
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	
<b>ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled))</b>				
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	
<b>CIS-CHLORDANE (13C10, 99%) (475275-01-5)</b>				
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	
<b>TRANS-CHLORDANE (GAMMA) (13C10, 99%) (5103-74-2 (Unlabeled))</b>				
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	
<b>2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))</b>				
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	
<b>CIS-NONACHLOR (13C10, 98%) (5103-73-1 (Unlabeled))</b>				
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)

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE

ES-5442-CS1

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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

<b>CIS-NONACHLOR (13C10, 98%) (5103-73-1 (Unlabeled))</b>				
No	No	No	No	
<b>METHOXYCHLOR (RING-13C12, 99%) (72-43-5 (Unlabeled))</b>				
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	
<b>PENTACHLOROANISOLE (13C6, 99%) (1825-21-4 (Unlabeled))</b>				
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	
<b>OCTACHLOROSTYRENE (13C8, 99%) (29082-74-4 (Unlabeled))</b>				
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	
<b>2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%) (234432-92-9)</b>				
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	
<b>3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%) (93703-48-1 (Unlabeled))</b>				
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	
<b>2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%) (488710-25-4)</b>				
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	
<b>TOLUENE UNLABELED (108-88-3)</b>				
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	No	No	
<b>ISOCTANE UNLABELED (540-84-1)</b>				
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	
<b>N-NONANE UNLABELED (111-84-2)</b>				
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	



# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE

ES-5442-CS1

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<b>1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C6, 99%) (30746-58-8 (Unlabeled))</b>				
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	
<b>HEXACHLOROBENZENE UNLABELED (118-74-1)</b>				
<b>State or local regulations</b>				
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				
<b>BETA-BHC UNLABELED (319-85-7)</b>				
<b>State or local regulations</b>				
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List				
<b>LINDANE UNLABELED (58-89-9)</b>				
<b>State or local regulations</b>				
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List				
<b>ALDRIN UNLABELED (309-00-2)</b>				
<b>State or local regulations</b>				
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				
<b>CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3)</b>				
<b>State or local regulations</b>				
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Massachusetts - Right To Know List				
<b>OXYCHLORDANE UNLABELED (27304-13-8)</b>				
<b>State or local regulations</b>				
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List				
<b>TRANS-NONACHLOR UNLABELED (39765-80-5)</b>				
<b>State or local regulations</b>				
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List				
<b>4,4'-DDE UNLABELED (72-55-9)</b>				
<b>State or local regulations</b>				
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List				
<b>DIELDRIN UNLABELED (60-57-1)</b>				
<b>State or local regulations</b>				
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				
<b>ENDRIN UNLABELED (72-20-8)</b>				
<b>State or local regulations</b>				
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				

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/<sup>13</sup>C, 99%) IN NONANE

ES-5442-CS1

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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

<b>ISODRIN UNLABELED (465-73-6)</b>
<b>State or local regulations</b>
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
<b>2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>4,4'-DDT UNLABELED (50-29-3)</b>
<b>State or local regulations</b>
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
<b>MIREX UNLABELED (2385-85-5)</b>
<b>State or local regulations</b>
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
<b>ALPHA-BHC UNLABELED (319-84-6)</b>
<b>State or local regulations</b>
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
<b>CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9)</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>TRANS-CHLORDANE (GAMMA) UNLABELED (5103-74-2)</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>2,4'-DDE UNLABELED (3424-82-6)</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>CIS-NONACHLOR UNLABELED (5103-73-1)</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>METHOXYCHLOR UNLABELED (72-43-5)</b>
<b>State or local regulations</b>
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
<b>PENTACHLOROANISOLE UNLABELED (1825-21-4)</b>
<b>State or local regulations</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
<b>OCTACHLOROSTYRENE UNLABELED (29082-74-4 (Unlabeled))</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE

ES-5442-CS1

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<b>PARLAR 26 UNLABELED (142534-71-2)</b>
<b>State or local regulations</b>
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
<b>PARLAR 50 UNLABELED (66860-80-8)</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>PARLAR 62 UNLABELED (154159-06-5)</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>PARLAR 26 (13C10, 99%) (142534-71-2 (Unlabeled))</b>
<b>State or local regulations</b>
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
<b>PARLAR 50 (13C10, 99%) (66860-80-8 (Unlabeled))</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>PARLAR 62 (13C10, 99%) (154159-06-5 (Unlabeled))</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>HEXACHLOROBENZENE (13C6, 99%) (93952-14-8)</b>
<b>State or local regulations</b>
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
<b>BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>LINDANE (13C6, 99%) (58-89-9 (Unlabeled))</b>
<b>State or local regulations</b>
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
<b>ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))</b>
<b>State or local regulations</b>
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
<b>CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))</b>
<b>State or local regulations</b>
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
<b>OXYCHLORDANE (13C10, 99%) (27304-13-8 (Unlabeled))</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE

ES-5442-CS1

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<b>OXYCHLORDANE (13C10, 99%) (27304-13-8 (Unlabeled))</b>
U.S. - New Jersey - Right to Know Hazardous Substance List
<b>TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (Unlabeled))</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>DIELDRIN (13C12, 98-99%) (60-57-1 (Unlabeled))</b>
<b>State or local regulations</b>
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
<b>ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))</b>
<b>State or local regulations</b>
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
<b>ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (Unlabeled))</b>
<b>State or local regulations</b>
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
<b>2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>4,4'-DDT (RING-13C12, 99%) (104215-84-1)</b>
<b>State or local regulations</b>
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
<b>MIREX (13C10, 98%) (2385-85-5 (Unlabeled))</b>
<b>State or local regulations</b>
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
<b>ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled))</b>
<b>State or local regulations</b>
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
<b>CIS-CHLORDANE (13C10, 99%) (475275-01-5)</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>TRANS-CHLORDANE (GAMMA) (13C10, 99%) (5103-74-2 (Unlabeled))</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%) IN NONANE

ES-5442-CS1

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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

<b>2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>CIS-NONACHLOR (13C10, 98%) (5103-73-1 (Unlabeled))</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>METHOXYCHLOR (RING-13C12, 99%) (72-43-5 (Unlabeled))</b>
<b>State or local regulations</b>
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
<b>PENTACHLOROANISOLE (13C6, 99%) (1825-21-4 (Unlabeled))</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List
<b>OCTACHLOROSTYRENE (13C8, 99%) (29082-74-4 (Unlabeled))</b>
<b>State or local regulations</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List
<b>2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%) (234432-92-9)</b>
<b>State or local regulations</b>
U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Excluded Volatile Organic Compounds
<b>3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%) (93703-48-1 (Unlabeled))</b>
<b>State or local regulations</b>
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
<b>2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%) (488710-25-4)</b>
<b>State or local regulations</b>
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
<b>TOLUENE UNLABELED (108-88-3)</b>
<b>State or local regulations</b>
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
<b>ISOCTANE UNLABELED (540-84-1)</b>
<b>State or local regulations</b>
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
<b>N-NONANE UNLABELED (111-84-2)</b>
<b>State or local regulations</b>
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

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/<sup>13</sup>C, 99%) IN NONANE

ES-5442-CS1

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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

### 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

## 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)	Acute toxicity (inhalation) Category 1
Acute Tox. 1 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 1
Acute Tox. 1 (Oral)	Acute toxicity (oral) Category 1
Acute Tox. 2 (Dermal)	Acute toxicity (dermal) Category 2
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Inhalation: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. 1B	Carcinogenicity Category 1B
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 Category 2
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
H312	Harmful in contact with skin
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

# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/<sup>13</sup>C, 99%) IN NONANE

ES-5442-CS1

## 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

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
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
R21/22	Harmful in contact with skin and if swallowed
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	Very toxic by inhalation
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
T	Toxic
T+	Very toxic
Xi	Irritant
Xn	Harmful

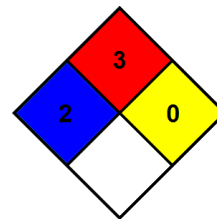
# CDC POPS (W/ PARLARS) CALIBRATION SOLUTION CS1 (UNLABELED/<sup>13</sup>C, 99%) IN NONANE

ES-5442-CS1

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NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.



### Hazard Rating

Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 3 Serious Hazard
Physical	: 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

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