



# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 19/03/2015

Revision date:

:

Version: 1.0

### ES-5464-A-CS2

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

### 1.1. Product identifier

Product form : Mixtures  
Product name. : EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2  
(UNLABELED/13C, 99%) IN NONANE  
Product code : ES-5464-A-CS2

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

#### 1.2.1. Relevant identified uses

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: 1-202-483-7616 (24 hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Flam. Liq. 3	H226
Acute Tox. 4 (Inhalation)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
STOT SE 3	H336
Asp. Tox. 1	H304
Aquatic Chronic 3	H412

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11  
Xn; R20  
Xn; R65  
R52/53

Full text of R-phrases: see section 16

#### Classification (GHS-US)

Flam. Liq. 3	H226
Acute Tox. 4 (Inhalation)	H332
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
STOT SE 3	H336
Asp. Tox. 1	H304
Aquatic Acute 3	H402
Aquatic Chronic 3	H412

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### Adverse physicochemical, human health and environmental effects

Central Nervous System.

## 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

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  
H412 - Harmful to aquatic life with long lasting effects

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, lighting, ventilating equipment  
P261 - Avoid breathing fume, mist, spray, vapors  
P264 - Wash both hands thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment

### GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: H226 - Flammable liquid and vapor  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H332 - Harmful if inhaled  
H336 - May cause drowsiness or dizziness  
H402 - Harmful to aquatic life  
H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS-US)

: P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical, lighting, ventilating equipment  
P242 - Use only non-sparking tools  
P243 - Take precautionary measures against static discharge  
P261 - Avoid breathing fume, mist, spray, vapors  
P264 - Wash Both hands thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P280 - Wear eye protection, face protection, protective clothing, protective gloves  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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/doctor/physician if you feel unwell

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P331 - If swallowed, do NOT induce vomiting  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P362 - Take off contaminated clothing and wash before reuse  
P370+P378 - In case of fire: Use Alcohol resistant foam., Carbon dioxide., Dry chemical., Water spray for extinction  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P403+P235 - Store in a well-ventilated place. Keep cool  
P405 - Store locked up  
P501 - Dispose of contents/container to Comply with applicable regulations.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
N-NONANE UNLABELED	(CAS No) 111-84-2 (EC no) 203-913-4	99.980267063	R10 Xn; R20 Xn; R65 R67
ISOOCTANE UNLABELED	(CAS No) 540-84-1 (EC no) 208-759-1 (EC index no) 601-009-00-8	0.019650575	F; R11 Xi; R38 N; R50/53 R67
HEXACHLOROBENZENE (13C6, 99%)	(CAS No) 118-74-1 (Unlabeled) (EC no) 204-273-9 (EC index no) 602-065-00-6	0.000002786	Xn; R20 N; R51/53 R10
ALDRIN (13C12, 99%)	(CAS No) 309-00-2 (Unlabeled) (EC no) 206-215-8 (EC index no) 602-048-00-3	0.000002786	Carc.Cat.3; R40 T; R24/25 N; R50/53
PENTACHLOROBENZENE (13C6, 99%)	(CAS No) 608-93-5 (Unlabeled) (EC no) 210-172-0 (EC index no) 602-074-00-5	0.000002786	F; R11 Xn; R22 N; R51/53
DIELDRIN (13C12, 98-99%)	(CAS No) 60-57-1 (EC no) 200-484-5 (EC index no) 602-049-00-9	0.000002786	Carc.Cat.3; R40 T+; R27 T; R25 N; R50/53 R48
4,4'-DDE (RING-13C12, 99%)	(CAS No) 72-55-9 (Unlabeled) (EC no) 200-784-6	0.000002786	Carc.Cat.3; R40 Xn; R22 N; R50/53
4,4'-DDT (RING-13C12, 99%)	(CAS No) 50-29-3 (Unlabeled) (EC no) 200-024-3 (EC index no) 602-045-00-7	0.000002786	Carc.Cat.3; R40 T; R25 N; R50/53
ENDRIN (13C12, 99%)	(CAS No) 72-20-8 (Unlabeled) (EC no) 200-775-7 (EC index no) 602-051-00-X	0.000002786	T+; R28 T; R24 N; R50/53
OXYCHLORDANE (13C10, 99%)	(CAS No) 27304-13-8 (Unlabeled)	0.000002786	Carc.Cat.3; R40 T; R25 N; R50/53
TRANS-NONACHLOR (13C10, 98%)	(CAS No) 39765-80-5 (unlabeled)	0.000002786	Xn; R22 Xi; R36/37/38 N; R50/53
CIS-NONACHLOR (13C10, 98%)	(CAS No) 5103-73-1 (unlabeled)	0.000002786	Xn; R22 N; R50

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
2,4'-DDT (RING-13C12, 99%)	(CAS No) 789-02-6 (Unlabeled) (EC no) 212-332-5	0.000002786	N; R50/53 Xn; R22 Xi; R36/37/38 T; R48/25 Carc.Cat.1; R45
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	(CAS No) 5103-74-2 (Unlabeled) (EC no) 225-826-0	0.000002786	Carc.Cat.3; R40 Xn; R22 N; R50
2,4'-DDD (RING-13C12, 99%)	(CAS No) 53-19-0 (Unlabeled) (EC no) 200-166-6	0.000002786	Carc.Cat.2; R45
2,4'-DDE (RING-13C12, 99%)	(CAS No) 3424-82-6 (Unlabeled) (EC no) 222-318-0	0.000002786	Carc.Cat.3; R40 Xn; R22 N; R50/53
4,4'-DDD (RING-13C12, 99%)	(CAS No) 72-54-8 (Unlabeled) (EC no) 200-783-0	0.000002786	Carc.Cat.3; R40 T; R25 Xn; R21 N; R50/53
DELTA-BHC (13C6, 99%)	(CAS No) 319-86-8 (Unlabeled) (EC no) 206-272-9 (EC index no) 602-042-00-0	0.000002786	Xn; R22 N; R51/53
MIREX (13C10, 99%)	(CAS No) 2385-85-5 (unlabeled) (EC no) 219-196-6 (EC index no) 602-077-00-1	0.000002786	T+; R26 T; R24/25 N; R50
BETA-BHC (13C6, 99%)	(CAS No) 319-85-7 (Unlabeled) (EC no) 206-271-3 (EC index no) 602-042-00-0	0.000002786	Carc.Cat.2; R45 Xn; R21 N; R50/53
CIS-HEPTACHLOR EPOXIDE (13C10, 99%)	(CAS No) 1024-57-3 (Unlabeled) (EC no) 213-831-0 (EC index no) 602-063-00-5	0.000002786	Carc.Cat.3; R40 T+; R28 N; R50/53
HEPTACHLOR (13C10, 99%)	(CAS No) 76-44-8 (unlabeled) (EC no) 200-962-3 (EC index no) 602-046-00-2	0.000002786	T+; R26 T; R24/25 R42 N; R50
ENDOSULFAN-II (13C9, 99%)	(CAS No) 33213-65-9 (Unlabeled)	0.000002786	T; R24/25 Xi; R36 N; R50/53
ENDOSULFAN-I (13C9, 99%)	(CAS No) 959-98-8	0.000002786	T; R24/25 Xi; R36 N; R50/53
KEPONE (CHLORDECONE) (13C10, 99%)	(CAS No) 143-50-0 (Unlabeled) (EC no) 205-601-3 (EC index no) 606-019-00-6	0.000002786	Carc.Cat.3; R40 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	0.000002786	Carc.Cat.3; R40 T; R25 Xn; R21 N; R50/53
2,3',4',5-TETRACB (PCB-70) (13C12, 99%)	(CAS No) 208263-81-4 (EC index no) 602-039-00-4	0.000002786	N; R50/53 R33 R48
4,4'-DICB (PCB-15) (13C12, 99%)	(CAS No) 208263-67-6 (EC no) 218-095-4 (EC index no) 602-039-00-4	0.000002786	Xn; R22 N; R50/53
LINDANE (13C6, 99%)	(CAS No) 58-89-9 (unlabeled) (EC no) 200-401-2 (EC index no) 602-043-00-6	0.000002786	T; R25 Xn; R20/21 Xn; R48/22 R64 N; R50/53
ENDOSULFAN SULFATE (13C9, 99%)	(CAS No) 1031-07-8 (unlabeled)	0.000002786	T+; R28 N; R50/53
ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%)	(CAS No) 465-73-6 (unlabeled) (EC no) 207-366-2 (EC index no) 602-050-00-4	0.000002786	T+; R26/27/28 N; R50/53

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
HEXACHLOROBENZENE UNLABELED	(CAS No) 118-74-1 (Unlabeled) (EC no) 204-273-9 (EC index no) 602-065-00-6	0.000000056	Xn; R20 N; R51/53
PENTACHLOROBENZENE UNLABELED	(CAS No) 608-93-5 (Unlabeled) (EC no) 210-172-0 (EC index no) 602-074-00-5	0.000000056	Xn; R22 N; R50/53
ALDRIN UNLABELED	(CAS No) 309-00-2 (EC no) 206-215-8 (EC index no) 602-048-00-3	0.000000056	Carc.Cat.3; R40 T; R24/25 N; R50/53
4,4'-DDE UNLABELED	(CAS No) 72-55-9 (Unlabeled) (EC no) 200-784-6	0.000000056	Carc.Cat.3; R40 Xn; R22 N; R50/53
DIELDRIN UNLABELED	(CAS No) 60-57-1 (unlabeled) (EC no) 200-484-5 (EC index no) 602-049-00-9	0.000000056	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	0.000000056	T+; R28 T; R24 N; R50/53
4,4'-DDT UNLABELED	(CAS No) 50-29-3 (Unlabeled) (EC no) 200-024-3 (EC index no) 602-045-00-7	0.000000056	Carc.Cat.3; R40 T; R25 N; R50/53
2,4'-DDT UNLABELED (97% CHEMICAL PURITY)	(CAS No) 789-02-6 (EC no) 212-332-5	0.000000056	Carc.Cat.3; R40 T; R25 T; R48/25 N; R50/53
CIS-CHLORDANE(ALPHA) UNLABELED	(CAS No) 5103-71-9 (Unlabeled) (EC no) 225-825-5	0.000000056	Xn; R22 N; R50/53
TRANS-NONACHLOR UNLABELED	(CAS No) 39765-80-5 (unlabeled)	0.000000056	Xn; R22 N; R50/53
CIS-NONACHLOR UNLABELED	(CAS No) 5103-73-1 (unlabeled)	0.000000056	Xn; R22 N; R50
TRANS-CHLORDANE (GAMMA) UNLABELED	(CAS No) 5103-74-2 (Unlabeled) (EC no) 225-826-0	0.000000056	Carc.Cat.3; R40 Xn; R22 N; R50
2,4'-DDD UNLABELED	(CAS No) 53-19-0 (EC no) 200-166-6	0.000000056	Carc.Cat.1; R45
2,4'-DDE UNLABELED	(CAS No) 3424-82-6 (Unlabeled) (EC no) 222-318-0	0.000000056	Carc.Cat.3; R40 Xn; R22 N; R50/53
4,4'-DDD UNLABELED	(CAS No) 72-54-8 (EC no) 200-783-0	0.000000056	Carc.Cat.3; R40 T; R25 Xn; R21 N; R50/53
LINDANE UNLABELED	(CAS No) 58-89-9 (EC no) 200-401-2 (EC index no) 602-043-00-6	0.000000056	T; R25 Xn; R20/21 Xn; R48/22 R64 N; R50/53
MIREX UNLABELED	(CAS No) 2385-85-5 (EC no) 219-196-6 (EC index no) 602-077-00-1	0.000000056	Xn; R21/22 N; R50/53
ALPHA-BHC UNLABELED	(CAS No) 319-84-6 (Unlabeled) (EC no) 206-270-8 (EC index no) 602-042-00-0	0.000000056	T; R25 N; R50/53
DELTA-BHC UNLABELED	(CAS No) 319-86-8 (EC no) 206-272-9 (EC index no) 602-042-00-0	0.000000056	Xn; R21 T; R25 N; R51/53
HEPTACHLOR UNLABELED	(CAS No) 76-44-8 (EC no) 200-962-3 (EC index no) 602-046-00-2	0.000000056	T; R25 N; R50/53

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
CIS-HEPTACHLOR EPOXIDE UNLABELED	(CAS No) 1024-57-3 (Unlabeled) (EC no) 213-831-0 (EC index no) 602-063-00-5	0.000000056	T+; R28 N; R50/53
TRANS-HEPTACHLOR EPOXIDE UNLABELED	(CAS No) 28044-83-9 (unlabeled) (EC index no) 602-063-00-5	0.000000056	T+; R28
BETA-BHC UNLABELED	(CAS No) 319-85-7 (Unlabeled) (EC no) 206-271-3 (EC index no) 602-042-00-0	0.000000056	N; R51/53
ENDOSULFAN-II UNLABELED	(CAS No) 33213-65-9	0.000000056	T; R24/25 Xi; R36 N; R50/53
OXYCHLORDANE UNLABELED	(CAS No) 27304-13-8	0.000000056	Carc.Cat.3; R40 T; R25 N; R50/53
KEPONE (CHLORDECONE) UNLABELED	(CAS No) 143-50-0 (EC no) 205-601-3 (EC index no) 606-019-00-6	0.000000056	Carc.Cat.3; R40 T+; R28 T; R24 N; R50/53
ENDOSULFAN-I UNLABELED	(CAS No) 959-98-8	0.000000056	T; R24/25 Xi; R36 N; R50/53
ENDOSULFAN SULFATE UNLABELED	(CAS No) 1031-07-8 (unlabeled)	0.000000056	T+; R28 N; R50/53

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	99.980267063	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
ISOOCTANE UNLABELED	(CAS No) 540-84-1 (EC no) 208-759-1 (EC index no) 601-009-00-8	0.019650575	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HEXACHLORO BENZENE (13C6, 99%)	(CAS No) 118-74-1 (Unlabeled) (EC no) 204-273-9 (EC index no) 602-065-00-6	0.000002786	Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. 1A, H350 STOT RE 1, H372 Aquatic Chronic 2, H411
ALDRIN (13C12, 99%)	(CAS No) 309-00-2 (Unlabeled) (EC no) 206-215-8 (EC index no) 602-048-00-3	0.000002786	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Carc. 2, H351 STOT SE 1, H370 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
PENTACHLORO BENZENE (13C6, 99%)	(CAS No) 608-93-5 (Unlabeled) (EC no) 210-172-0 (EC index no) 602-074-00-5	0.000002786	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DIELDRIN (13C12, 98-99%)	(CAS No) 60-57-1 (EC no) 200-484-5 (EC index no) 602-049-00-9	0.000002786	Acute Tox. 1 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 1 (Inhalation:dust,mist), H330 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DDE (RING-13C12, 99%)	(CAS No) 72-55-9 (Unlabeled) (EC no) 200-784-6	0.000002786	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 4, H413
4,4'-DDT (RING-13C12, 99%)	(CAS No) 50-29-3 (Unlabeled) (EC no) 200-024-3 (EC index no) 602-045-00-7	0.000002786	Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 4, H413

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ENDRIN (13C12, 99%)	(CAS No) 72-20-8 (Unlabeled) (EC no) 200-775-7 (EC index no) 602-051-00-X	0.000002786	Acute Tox. 1 (Oral), H300 Acute Tox. 2 (Dermal), H310 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
OXYCHLORDANE (13C10, 99%)	(CAS No) 27304-13-8 (Unlabeled)	0.000002786	Acute Tox. 3 (Oral), H301 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
TRANS-NONACHLOR (13C10, 98%)	(CAS No) 39765-80-5 (unlabeled)	0.000002786	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
CIS-NONACHLOR (13C10, 98%)	(CAS No) 5103-73-1 (unlabeled)	0.000002786	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400
2,4'-DDT (RING-13C12, 99%)	(CAS No) 789-02-6 (Unlabeled) (EC no) 212-332-5	0.000002786	Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
TRANS-CHLORDANE (GAMMA) (13C10, 99%)	(CAS No) 5103-74-2 (Unlabeled) (EC no) 225-826-0	0.000002786	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=10)
2,4'-DDD (RING-13C12, 99%)	(CAS No) 53-19-0 (Unlabeled) (EC no) 200-166-6	0.000002786	Carc. 1B, H350
2,4'-DDE (RING-13C12, 99%)	(CAS No) 3424-82-6 (Unlabeled) (EC no) 222-318-0	0.000002786	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DDD (RING-13C12, 99%)	(CAS No) 72-54-8 (Unlabeled) (EC no) 200-783-0	0.000002786	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
DELTA-BHC (13C6, 99%)	(CAS No) 319-86-8 (Unlabeled) (EC no) 206-272-9 (EC index no) 602-042-00-0	0.000002786	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
MIREX (13C10, 99%)	(CAS No) 2385-85-5 (unlabeled) (EC no) 219-196-6 (EC index no) 602-077-00-1	0.000002786	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:dust,mist), H330 Carc. 2, H351 Repr. 2, H361 Aquatic Acute 1, H400 (M=10)
BETA-BHC (13C6, 99%)	(CAS No) 319-85-7 (Unlabeled) (EC no) 206-271-3 (EC index no) 602-042-00-0	0.000002786	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
CIS-HEPTACHLOR EPOXIDE (13C10, 99%)	(CAS No) 1024-57-3 (Unlabeled) (EC no) 213-831-0 (EC index no) 602-063-00-5	0.000002786	Acute Tox. 2 (Oral), H300 Carc. 2, H351 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
HEPTACHLOR (13C10, 99%)	(CAS No) 76-44-8 (unlabeled) (EC no) 200-962-3 (EC index no) 602-046-00-2	0.000002786	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation:dust,mist), H330 Resp. Sens. 1, H334 Carc. 2, H351 Aquatic Acute 1, H400 (M=100)
ENDOSULFAN-II (13C9, 99%)	(CAS No) 33213-65-9 (Unlabeled)	0.000002786	Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ENDOSULFAN-I (13C9, 99%)	(CAS No) 959-98-8	0.000002786	Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 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]
KEPONE (CHLORDECONE) (13C10, 99%)	(CAS No) 143-50-0 (Unlabeled) (EC no) 205-601-3 (EC index no) 606-019-00-6	0.000002786	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Aquatic Acute 1, H400 (M=1000) 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	0.000002786	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3',4',5-TETRACB (PCB-70) (13C12, 99%)	(CAS No) 208263-81-4 (EC index no) 602-039-00-4	0.000002786	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DICB (PCB-15) (13C12, 99%)	(CAS No) 208263-67-6 (EC no) 218-095-4 (EC index no) 602-039-00-4	0.000002786	Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
LINDANE (13C6, 99%)	(CAS No) 58-89-9 (unlabeled) (EC no) 200-401-2 (EC index no) 602-043-00-6	0.000002786	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
ENDOSULFAN SULFATE (13C9, 99%)	(CAS No) 1031-07-8 (unlabeled)	0.000002786	Acute Tox. 2 (Oral), H300 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 (EC index no) 602-050-00-4	0.000002786	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
HEXACHLOROBENZENE UNLABELED	(CAS No) 118-74-1 (Unlabeled) (EC no) 204-273-9 (EC index no) 602-065-00-6	0.000000056	Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. 1B, H350 STOT SE 1, H370 Aquatic Chronic 2, H411
PENTACHLOROBENZENE UNLABELED	(CAS No) 608-93-5 (Unlabeled) (EC no) 210-172-0 (EC index no) 602-074-00-5	0.000000056	Flam. Sol. 1, H228 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ALDRIN UNLABELED	(CAS No) 309-00-2 (EC no) 206-215-8 (EC index no) 602-048-00-3	0.000000056	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
4,4'-DDE UNLABELED	(CAS No) 72-55-9 (Unlabeled) (EC no) 200-784-6	0.000000056	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
DIELDRIN UNLABELED	(CAS No) 60-57-1 (unlabeled) (EC no) 200-484-5 (EC index no) 602-049-00-9	0.000000056	Acute Tox. 1 (Oral), H300 Acute Tox. 3 (Dermal), H311 Acute Tox. 1 (Inhalation:dust,mist), H330 STOT RE 1, H372 Aquatic Chronic 2, H411
ENDRIN UNLABELED	(CAS No) 72-20-8 (EC no) 200-775-7 (EC index no) 602-051-00-X	0.000000056	Acute Tox. 1 (Oral), H300 Acute Tox. 2 (Dermal), H310 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
4,4'-DDT UNLABELED	(CAS No) 50-29-3 (Unlabeled) (EC no) 200-024-3 (EC index no) 602-045-00-7	0.000000056	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
2,4'-DDT UNLABELED (97% CHEMICAL PURITY)	(CAS No) 789-02-6 (EC no) 212-332-5	0.000000056	Acute Tox. 3 (Oral), H301 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410



# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 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]
CIS-CHLORDANE(ALPHA) UNLABELED	(CAS No) 5103-71-9 (Unlabeled) (EC no) 225-825-5	0.000000056	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
TRANS-NONACHLOR UNLABELED	(CAS No) 39765-80-5 (unlabeled)	0.000000056	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
CIS-NONACHLOR UNLABELED	(CAS No) 5103-73-1 (unlabeled)	0.000000056	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400
TRANS-CHLORDANE (GAMMA) UNLABELED	(CAS No) 5103-74-2 (Unlabeled) (EC no) 225-826-0	0.000000056	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 (M=10)
2,4'-DDD UNLABELED	(CAS No) 53-19-0 (EC no) 200-166-6	0.000000056	Carc. 1A, H350
2,4'-DDE UNLABELED	(CAS No) 3424-82-6 (Unlabeled) (EC no) 222-318-0	0.000000056	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DDD UNLABELED	(CAS No) 72-54-8 (EC no) 200-783-0	0.000000056	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
LINDANE UNLABELED	(CAS No) 58-89-9 (EC no) 200-401-2 (EC index no) 602-043-00-6	0.000000056	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)
MIREX UNLABELED	(CAS No) 2385-85-5 (EC no) 219-196-6 (EC index no) 602-077-00-1	0.000000056	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 (Unlabeled) (EC no) 206-270-8 (EC index no) 602-042-00-0	0.000000056	Acute Tox. 3 (Oral), H301 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DELTA-BHC UNLABELED	(CAS No) 319-86-8 (EC no) 206-272-9 (EC index no) 602-042-00-0	0.000000056	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
HEPTACHLOR UNLABELED	(CAS No) 76-44-8 (EC no) 200-962-3 (EC index no) 602-046-00-2	0.000000056	Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Dermal), H310 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
CIS-HEPTACHLOR EPOXIDE UNLABELED	(CAS No) 1024-57-3 (Unlabeled) (EC no) 213-831-0 (EC index no) 602-063-00-5	0.000000056	Acute Tox. 2 (Oral), H300 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
TRANS-HEPTACHLOR EPOXIDE UNLABELED	(CAS No) 28044-83-9 (unlabeled) (EC index no) 602-063-00-5	0.000000056	Acute Tox. 1 (Oral), H300
BETA-BHC UNLABELED	(CAS No) 319-85-7 (Unlabeled) (EC no) 206-271-3 (EC index no) 602-042-00-0	0.000000056	Acute Tox. 3 (Oral), H301 Aquatic Chronic 2, H411
ENDOSULFAN-II UNLABELED	(CAS No) 33213-65-9	0.000000056	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410
OXYCHLORDANE UNLABELED	(CAS No) 27304-13-8	0.000000056	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 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]
KEPONE (CHLORDECONE) UNLABELED	(CAS No) 143-50-0 (EC no) 205-601-3 (EC index no) 606-019-00-6	0.000000056	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410
ENDOSULFAN-I UNLABELED	(CAS No) 959-98-8	0.000000056	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
ENDOSULFAN SULFATE UNLABELED	(CAS No) 1031-07-8 (unlabeled)	0.000000056	Acute Tox. 2 (Oral), H300 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Name	Product identifier	%	Classification (GHS-US)
N-NONANE UNLABELED	(CAS No) 111-84-2	99.980267063	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304
ISOOCTANE UNLABELED	(CAS No) 540-84-1	0.019650575	Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Move out of dangerous area. Consult a physician and show this safety data sheet.
- First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.
- First-aid measures after ingestion : Immediately call a POISON CENTER or doctor/physician.

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

- Symptoms/injuries after inhalation : May cause drowsiness or dizziness.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes eye irritation.
- Symptoms/injuries 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 : For small fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

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

- Fire hazard : Flammable liquid and vapor.
- Explosion hazard : May form flammable/explosive vapor-air mixture.
- Reactivity : Vapors may form explosive mixture with air.

### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray to cool unopened containers.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 6: Accidental release measures

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

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking.

##### 6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Contain spillage, then collect with non-combustible absorbent material. Disposal should be in accordance with applicable Federal, State and local regulations.

#### 6.4. Reference to other sections

No additional information available

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.  
Precautions for safe handling : No naked lights. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area.  
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment.  
Storage conditions : Store at room temperature away from light and moisture.  
Incompatible materials : Heat sources.

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

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.000000000 ppm Central Nervous System impairment.
HEXACHLORO BENZENE (13C6, 99%) (118-74-1 (Unlabeled))		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.000000000 mg/m <sup>3</sup> Central Nervous System impairment. Porphyrin effects. Skin damage.
HEXACHLORO BENZENE UNLABELED (118-74-1 (Unlabeled))		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.000000000 mg/m <sup>3</sup> Central Nervous System impairment. Porphyrin effects. Skin damage.
ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.050000000 mg/m <sup>3</sup> Skin contact does contribute to exposure. Confirmed animal carcinogen.
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.250000000 mg/m <sup>3</sup> Skin notation
ALDRIN UNLABELED (309-00-2)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.050000000 mg/m <sup>3</sup> Skin contact does contribute to exposure. Confirmed animal carcinogen.
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.250000000 mg/m <sup>3</sup> Skin notation
DIELDRIN (13C12, 98-99%) (60-57-1)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.250000000 mg/m <sup>3</sup> Liver damage. Central Nervous System convulsion. Danger of cutaneous absorption

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>DIELDRIN (13C12, 98-99%) (60-57-1)</b>		
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.2500000000 mg/m <sup>3</sup> Skin notation
<b>4,4'-DDT (RING-13C12, 99%) (50-29-3 (Unlabeled))</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1.0000000000 mg/m <sup>3</sup> Liver damage. Confirmed animal carcinogen with unknown relevance to humans.
USA OSHA	OSHA PEL (TWA) (mg/m3)	1.0000000000 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> )	0.1000000000 mg/m <sup>3</sup> Central Nervous System impairment, Headache, Liver damage
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.1000000000 mg/m <sup>3</sup> Danger of cutaneous absorption, not classifiable a a human carcinogen
<b>DIELDRIN UNLABELED (60-57-1 (unlabeled))</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.2500000000 mg/m <sup>3</sup> Liver damage. Central Nervous System convulsion. Danger of cutaneous absorption
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.2500000000 mg/m <sup>3</sup> Skin notation
<b>ENDRIN UNLABELED (72-20-8)</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.1000000000 mg/m <sup>3</sup> Central Nervous System impairment, Headache, Liver damage
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.1000000000 mg/m <sup>3</sup> Danger of cutaneous absorption, not classifiable a a human carcinogen
<b>4,4'-DDT UNLABELED (50-29-3 (Unlabeled))</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1.0000000000 mg/m <sup>3</sup> Liver damage. Confirmed animal carcinogen with unknown relevance to humans.
USA OSHA	OSHA PEL (TWA) (mg/m3)	1.0000000000 mg/m <sup>3</sup> Skin notation
<b>N-NONANE UNLABELED (111-84-2)</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.0000000000 ppm Central Nervous System impairment.
<b>HEPTACHLOR (13C10, 99%) (76-44-8 (unlabeled))</b>		
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.5000000000 mg/m <sup>3</sup> Skin notation, skin designation
<b>HEPTACHLOR UNLABELED (76-44-8)</b>		
USA OSHA	OSHA PEL (TWA) (mg/m3)	0.5000000000 mg/m <sup>3</sup> Skin notation, skin designation
<b>LINDANE (13C6, 99%) (58-89-9 (unlabeled))</b>		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>

## 8.2. Exposure controls

Personal protective equipment

: Protective clothing. Protective goggles. Self-contained breathing apparatus. Gloves.



Hand protection

: Wear suitable protective clothing and gloves.

Eye protection

: Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection.

## SECTION 9: Physical and chemical properties

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

*The properties listed below are for the solvent, the main component of this mixture.*

Physical state : Liquid

Appearance : Liquid.

Molecular mass : 128.3

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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Color	: No data available.
Odor	: No data available
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	: -53 °C (- 63 °F) - lit
Boiling point	: 151 °C (304 °F) - lit
Flash point	: 31.0 °C (87.8 °F) - closed cup
Self ignition temperature	: 205 °C (401 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable liquid and vapor
Vapor pressure	: 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: 0 %
Log Pow	: 5.65
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
Explosive limits	: 0.87 - 2.9 % (V)

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Vapors may form explosive mixture with air.

### 10.2. Chemical stability

See storage and expiration date on CoA.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

May release flammable gases.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled.

EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE	
LC50 inhalation rat (ppm)	3200 ppm/4h
ATE (gases)	4500.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	1.500 mg/l/4h

HEXACHLOROBENZENE (13C6, 99%) (118-74-1 (Unlabeled))	
LD50 oral rat	10000 mg/kg
LC50 inhalation rat (mg/l)	3600 mg/m <sup>3</sup>
ATE (oral)	10000.000 mg/kg body weight
ATE (vapors)	3.600 mg/l/4h
ATE (dust, mist)	3.600 mg/l/4h

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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<b>HEXACHLOROBENZENE UNLABELED (118-74-1 (Unlabeled))</b>	
LD50 oral rat	10000 mg/kg
LC50 inhalation rat (mg/l)	3600 mg/m <sup>3</sup>
ATE (oral)	10000.000 mg/kg body weight
ATE (vapors)	3.600 mg/l/4h
ATE (dust, mist)	3.600 mg/l/4h
	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
<b>ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))</b>	
LD50 oral rat	39.0 mg/kg
ATE (oral)	39.000 mg/kg body weight
ATE (dermal)	15.000 mg/kg body weight
<b>PENTACHLOROBENZENE (13C6, 99%) (608-93-5 (Unlabeled))</b>	
LD50 oral rat	1080 mg/kg
<b>PENTACHLOROBENZENE UNLABELED (608-93-5 (Unlabeled))</b>	
LD50 oral rat	1080 mg/kg
ATE (oral)	1080.000 mg/kg body weight
<b>ALDRIN UNLABELED (309-00-2)</b>	
LD50 oral rat	39.0 mg/kg
ATE (oral)	39.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
<b>DIELDRIN (13C12, 98-99%) (60-57-1)</b>	
LD50 dermal rabbit	250.0 mg/kg
LC50 inhalation rat (mg/l)	13 mg/m <sup>3</sup> 4 h
ATE (oral)	0.500 mg/kg body weight
ATE (dermal)	250.000 mg/kg body weight
ATE (vapors)	0.013 mg/l/4h
ATE (dust, mist)	0.013 mg/l/4h
<b>4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))</b>	
LD50 oral rat	880 mg/kg
<b>4,4'-DDT (RING-13C12, 99%) (50-29-3 (Unlabeled))</b>	
LD50 oral rat	87 mg/kg
LD50 dermal rabbit	300 mg/kg
<b>ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))</b>	
LD50 oral rat	3.0 mg/kg
LD50 dermal rabbit	60.0 mg/kg
ATE (oral)	3.000 mg/kg body weight
ATE (dermal)	60.000 mg/kg body weight
<b>4,4'-DDE UNLABELED (72-55-9 (Unlabeled))</b>	
LD50 oral rat	880 mg/kg
ATE (oral)	880.000 mg/kg body weight
<b>DIELDRIN UNLABELED (60-57-1 (unlabeled))</b>	
LD50 dermal rabbit	250.0 mg/kg
LC50 inhalation rat (mg/l)	13 mg/m <sup>3</sup> 4 h
ATE (oral)	0.500 mg/kg body weight
ATE (dermal)	250.000 mg/kg body weight
ATE (vapors)	0.013 mg/l/4h
ATE (dust, mist)	0.013 mg/l/4h
	LD50 oral mouse 38.0 mg/kg
	LD50 oral rabbit 45.0 mg/kg

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>ENDRIN UNLABELED (72-20-8)</b>	
LD50 oral rat	3.0 mg/kg
LD50 dermal rabbit	60.0 mg/kg
ATE (oral)	3.000 mg/kg body weight
ATE (dermal)	60.000 mg/kg body weight
<b>4,4'-DDT UNLABELED (50-29-3 (Unlabeled))</b>	
LD50 oral rat	87 mg/kg
LD50 dermal rabbit	300 mg/kg
ATE (oral)	87.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
<b>OXYCHLORDANE (13C10, 99%) (27304-13-8 (Unlabeled))</b>	
LD50 oral rat	457 mg/kg
ATE (oral)	100.000 mg/kg body weight
<b>TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (unlabeled))</b>	
LD50 oral rat	500 mg/kg
ATE (oral)	500.000 mg/kg body weight
<b>CIS-NONACHLOR (13C10, 98%) (5103-73-1 (unlabeled))</b>	
ATE (oral)	500.000 mg/kg body weight
<b>2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))</b>	
ATE (oral)	100.000 mg/kg body weight
<b>TRANS-CHLORDANE (GAMMA) (13C10, 99%) (5103-74-2 (Unlabeled))</b>	
LD50 oral rat	1100 mg/kg
ATE (oral)	1100.000 mg/kg body weight
<b>2,4'-DDD (RING-13C12, 99%) (53-19-0 (Unlabeled))</b>	
LD50 oral rat	> 5000 mg/kg
<b>2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)</b>	
ATE (oral)	100.000 mg/kg body weight
<b>2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))</b>	
LD50 oral rat	880 mg/kg
ATE (oral)	880.000 mg/kg body weight
<b>4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabeled))</b>	
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
<b>CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9 (Unlabeled))</b>	
LD50 oral rat	500 mg/kg
ATE (oral)	500.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
ATE (gases)	4500.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	1.500 mg/l/4h
<b>TRANS-NONACHLOR UNLABELED (39765-80-5 (unlabeled))</b>	
LD50 oral rat	500 mg/kg
ATE (oral)	500.000 mg/kg body weight
<b>CIS-NONACHLOR UNLABELED (5103-73-1 (unlabeled))</b>	
ATE (oral)	500.000 mg/kg body weight
<b>TRANS-CHLORDANE (GAMMA) UNLABELED (5103-74-2 (Unlabeled))</b>	
LD50 oral rat	1100 mg/kg
ATE (oral)	1100.000 mg/kg body weight
<b>2,4'-DDD UNLABELED (53-19-0)</b>	
LD50 oral rat	> 5000 mg/kg
<b>2,4'-DDE UNLABELED (3424-82-6 (Unlabeled))</b>	
LD50 oral rat	880 mg/kg

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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<b>2,4'-DDE UNLABELED (3424-82-6 (Unlabeled))</b>	
ATE (oral)	880.000 mg/kg body weight
<b>4,4'-DDD UNLABELED (72-54-8)</b>	
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
<b>N-NONANE UNLABELED (111-84-2)</b>	
LC50 inhalation rat (ppm)	3200 ppm/4h
ATE (dust, mist)	1.500 mg/l/4h
<b>DELTA-BHC (13C6, 99%) (319-86-8 (Unlabeled))</b>	
LD50 oral rat	1000 mg/kg
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
<b>MIREX (13C10, 99%) (2385-85-5 (unlabeled))</b>	
LD50 oral rat	235 mg/kg
LD50 dermal rabbit	800 mg/kg
ATE (oral)	235.000 mg/kg body weight
ATE (dermal)	800.000 mg/kg body weight
ATE (dust, mist)	0.050 mg/l/4h
<b>BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))</b>	
LD50 oral rat	6000 mg/kg
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
<b>CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))</b>	
LD50 oral rat	15 mg/kg
ATE (oral)	15.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
ATE (dust, mist)	0.050 mg/l/4h
<b>HEPTACHLOR (13C10, 99%) (76-44-8 (unlabeled))</b>	
LD50 oral rat	40 mg/kg
ATE (oral)	40.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
ATE (dust, mist)	0.050 mg/l/4h
<b>ENDOSULFAN-II (13C9, 99%) (33213-65-9 (Unlabeled))</b>	
LD50 oral rat	240 mg/kg
ATE (oral)	240.000 mg/kg body weight
<b>ENDOSULFAN-I (13C9, 99%) (959-98-8)</b>	
LD50 oral rat	76 mg/kg
ATE (oral)	76.000 mg/kg body weight
<b>KEPONE (CHLORDECONE) (13C10, 99%) (143-50-0 (Unlabeled))</b>	
LD50 oral rat	91.3 mg/kg
LD50 dermal rabbit	345 mg/kg
ATE (oral)	91.300 mg/kg body weight
ATE (dermal)	345.000 mg/kg body weight
<b>ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled))</b>	
LD50 oral rat	177.0 mg/kg
ATE (oral)	177.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
<b>LINDANE UNLABELED (58-89-9)</b>	
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
ATE (gases)	4500.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	1.500 mg/l/4h



# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

## Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>MIREX UNLABELED (2385-85-5)</b>	
LD50 oral rat	235 mg/kg
LD50 dermal rabbit	800 mg/kg
ATE (oral)	235.000 mg/kg body weight
ATE (dermal)	800.000 mg/kg body weight
<b>ALPHA-BHC UNLABELED (319-84-6 (Unlabeled))</b>	
LD50 oral rat	177.0 mg/kg
ATE (oral)	177.000 mg/kg body weight
<b>DELTA-BHC UNLABELED (319-86-8)</b>	
LD50 oral rat	1000 mg/kg
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
<b>HEPTACHLOR UNLABELED (76-44-8)</b>	
LD50 oral rat	40 mg/kg
ATE (oral)	40.000 mg/kg body weight
ATE (dermal)	50.000 mg/kg body weight
<b>CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3 (Unlabeled))</b>	
LD50 oral rat	15 mg/kg
ATE (oral)	15.000 mg/kg body weight
	LD50 Oral Mouse 39 mg/kg
	LD50 Oral Rabbit 144 mg/kg
<b>TRANS-HEPTACHLOR EPOXIDE UNLABELED (28044-83-9 (unlabeled))</b>	
LD50 oral rat	15 mg/kg
ATE (oral)	0.500 mg/kg body weight
<b>BETA-BHC UNLABELED (319-85-7 (Unlabeled))</b>	
LD50 oral rat	6000 mg/kg
ATE (oral)	100.000 mg/kg body weight
<b>ENDOSULFAN-II UNLABELED (33213-65-9)</b>	
LD50 oral rat	240 mg/kg
ATE (oral)	240.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
<b>OXYCHLORDANE UNLABELED (27304-13-8)</b>	
LD50 oral rat	457 mg/kg
ATE (oral)	457.000 mg/kg body weight
<b>KEPONE (CHLORDECONE) UNLABELED (143-50-0)</b>	
LD50 oral rat	91.3 mg/kg
LD50 dermal rabbit	345 mg/kg
ATE (oral)	91.300 mg/kg body weight
ATE (dermal)	345.000 mg/kg body weight
<b>ENDOSULFAN-I UNLABELED (959-98-8)</b>	
LD50 oral rat	76 mg/kg
ATE (oral)	76.000 mg/kg body weight
ATE (dermal)	300.000 mg/kg body weight
<b>ENDOSULFAN SULFATE UNLABELED (1031-07-8 (unlabeled))</b>	
LD50 oral rat	18.0 mg/kg
ATE (oral)	18.000 mg/kg body weight
<b>LINDANE (13C6, 99%) (58-89-9 (unlabeled))</b>	
ATE (oral)	100.000 mg/kg body weight
ATE (dermal)	1100.000 mg/kg body weight
ATE (gases)	4500.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	1.500 mg/l/4h

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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<b>ENDOSULFAN SULFATE (13C9, 99%) (1031-07-8 (unlabeled))</b>	
LD50 oral rat	18.0 mg/kg
ATE (oral)	18.000 mg/kg body weight

<b>ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (unlabeled))</b>	
ATE (oral)	5.000 mg/kg body weight
ATE (dermal)	5.000 mg/kg body weight
ATE (dust, mist)	0.050 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation. Skin - rat - Skin irritation - Draize test
Serious eye damage/irritation	: Causes serious eye irritation. No data available
Respiratory or skin sensitization	: Not available No data available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not classified
Reproductive toxicity	: Not available
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness. May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified No data available
Aspiration hazard	: May be fatal if swallowed and enters airways.
Potential Adverse human health effects and symptoms	: The chemical, physical, and toxicological properties have not been thoroughly investigated.
Symptoms/injuries after inhalation	: May cause drowsiness or dizziness.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

<b>HEXACHLOROBENZENE (13C6, 99%) (118-74-1 (Unlabeled))</b>	
LC50 fish 1	7.6 mg/l <i>Lepomis macrochirus</i> (Bluegill) - 96 h
EC50 Daphnia 1	0.0048 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
NOEC (chronic)	0.005 mg/l <i>Pimephales promelas</i> (fathead minnow) - 96 h

<b>HEXACHLOROBENZENE UNLABELED (118-74-1 (Unlabeled))</b>	
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

<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>PENTACHLOROBENZENE (13C6, 99%) (608-93-5 (Unlabeled))</b>	
LC50 fish 1	0.247 mg/l - <i>Pimephales promelas</i> (fathead minnow) - 96 h

<b>PENTACHLOROBENZENE UNLABELED (608-93-5 (Unlabeled))</b>	
LC50 fish 1	0.247 mg/l <i>Pimephales promelas</i> (fathead minnow) -96h

<b>ALDRIN UNLABELED (309-00-2)</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>DIELDRIN (13C12, 98-99%) (60-57-1)</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

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<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
<b>4,4'-DDT (RING-13C12, 99%) (50-29-3 (Unlabeled))</b>	
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
NOEC (chronic)	113 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 3 d
<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>4,4'-DDE UNLABELED (72-55-9 (Unlabeled))</b>	
LC50 fish 1	0.2 - 0.3 mg/l <i>Lepomis macrochirus</i> (Bluegill) - 96 h
LC50 fish 2	0.03 - 0.04 mg/l <i>Oncorhynchus mykiss</i> (Rainbow Trout) - 96 h
LC50 other aquatic organisms 2	0.05 - 0.18 mg/l <i>Salmo salar</i> (Atlantic Salmon) - 96 h
<b>DIELDRIN UNLABELED (60-57-1 (unlabeled))</b>	
LC50 fish 1	1.6 mg/l <i>Carassius auratus</i> (goldfish) -96h
EC50 Daphnia 1	79.5 mg/l <i>Daphnia magna</i> (Water flea) -48h
<b>ENDRIN UNLABELED (72-20-8)</b>	
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
	Immobilization EC50- <i>Daphnia magna</i> (water flea)-0.0042 mg/l-48h
<b>4,4'-DDT UNLABELED (50-29-3 (Unlabeled))</b>	
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)	<i>Scenedesmus quadricauda</i> (Green Algae) - 7 d
NOEC (chronic)	113 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 3 d
<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>2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))</b>	
LC50 fish 1	0.03 mg/l Other fish - 24 h
<b>TRANS-CHLORDANE (GAMMA) (13C10, 99%) (5103-74-2 (Unlabeled))</b>	
LC50 fish 1	0.05 mg/l <i>Lepomis macrochirus</i> - 96 h
<b>2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)</b>	
LC50 fish 1	0.03 mg/l Other fish - 24 h
<b>4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabeled))</b>	
LC50 fish 1	0.04 - 0.05 mg/l - <i>Lepomis macrochirus</i> (Bluegill) - 96 h
EC50 Daphnia 1	0.01 mg/l <i>Daphnia pulex</i> (Water flea) - 48 h
<b>CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9 (Unlabeled))</b>	
LC50 fish 1	0.0074 mg/l <i>Lepomis macrochirus</i> (Bluegill) -96h
<b>TRANS-NONACHLOR UNLABELED (39765-80-5 (unlabeled))</b>	
EC50 Daphnia 1	0.022 mg/l <i>Daphnia pulex</i> (Water flea) - 48 h
<b>TRANS-CHLORDANE (GAMMA) UNLABELED (5103-74-2 (Unlabeled))</b>	
LC50 fish 1	0.05 mg/l <i>Lepomis macrochirus</i> - 96 h
<b>4,4'-DDD UNLABELED (72-54-8)</b>	
LC50 fish 1	0.04 - 0.05 mg/l <i>Lepomis macrochirus</i> (Bluegill) - 96 h
EC50 Daphnia 1	0.01 mg/l <i>Daphnia pulex</i> (Water flea) - 48 h
<b>DELTA-BHC (13C6, 99%) (319-86-8 (Unlabeled))</b>	
LC50 fish 1	2.83 mg/l Other fish - 96 h
<b>MIREX (13C10, 99%) (2385-85-5 (unlabeled))</b>	
LC50 fish 1	0.023 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 96 h
EC50 Daphnia 1	2.6 mg/l <i>Daphnia magna</i> (Water flea) - 48 h

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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<b>BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))</b>	
LC50 fish 1	1.6 mg/l Poecilia reticulata (guppy) - 96 h
<b>CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))</b>	
LC50 fish 1	0.02 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	0.24 mg/l Daphnia magna (Water flea) - 48 h
<b>HEPTACHLOR (13C10, 99%) (76-44-8 (unlabeled))</b>	
LC50 fish 1	0.007 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	0.078 mg/l Daphnia magna (Water flea) - 48 h
<b>ENDOSULFAN-II (13C9, 99%) (33213-65-9 (Unlabeled))</b>	
LC50 fish 1	>= 0.0066 mg/l Other fish - 96 h
EC50 Daphnia 1	<= 1 mg/l Daphnia magna (Water flea) - 48 h
<b>KEPONE (CHLORDECONE) (13C10, 99%) (143-50-0 (Unlabeled))</b>	
LC50 fish 1	0.03 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	0.26 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	0.35 µg/l Chlorococcum sp. - 7 d
<b>ALPHA-BHC (13C6, 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>LINDANE UNLABELED (58-89-9)</b>	
LC50 fish 1	0.2 mg/l Cyprinus carpio (Carp) - 96 h
EC50 Daphnia 1	0.8 - 6.5 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	4 mg/l 72 h
NOEC chronic fish	0.056 mg/l Oncorhynchus mykiss (rainbow trout) - 3 d
<b>4,4'-DICB (PCB-15) (13C12, 99%) (208263-67-6)</b>	
EC50 Daphnia 1	0.45 mg/l Daphnia Magna (Water flea) - 48 h
<b>MIREX UNLABELED (2385-85-5)</b>	
LC50 fish 1	0.023 mg/l Oncorhynchus mykiss (rainbow trout) -96h
EC50 Daphnia 1	2.6 mg/l Daphnia magna (Water flea) -2.6mg/L-48h
<b>ALPHA-BHC UNLABELED (319-84-6 (Unlabeled))</b>	
LC50 fish 1	0.12 mg/l Carassius auratus (Goldfish) -48h
EC50 Daphnia 1	0.2 - 1.7 mg/l Daphnia magna (Water flea) -48h
ErC50 (algae)	> 100 mg/l No information available - 48h
<b>DELTA-BHC UNLABELED (319-86-8)</b>	
LC50 fish 1	2.83 mg/l other fish -96h
<b>HEPTACHLOR UNLABELED (76-44-8)</b>	
LC50 fish 1	0.007 mg/l Oncorhynchus mykiss (rainbow trout) -96h
EC50 Daphnia 1	0.078 mg/l Daphnia magna (Water flea) -48h
<b>CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3 (Unlabeled))</b>	
LC50 fish 1	0.02 mg/l Oncorhynchus mykiss (rainbow trout) -96h
EC50 Daphnia 1	0.24 mg/l Daphnia magna (Water flea) -48h
<b>BETA-BHC UNLABELED (319-85-7 (Unlabeled))</b>	
LC50 fish 1	1.6 mg/l Poecilia reticulata (guppy) -96h
<b>ENDOSULFAN-II UNLABELED (33213-65-9)</b>	
LC50 fish 1	0.0066 mg/l Other fish - 96h
EC50 Daphnia 1	< 1 mg/l Daphnia magna (Water flea) - 48 h
<b>KEPONE (CHLORDECONE) UNLABELED (143-50-0)</b>	
LC50 fish 1	0.03 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	0.26 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	0.35 µg/l Chlorococcum sp. - 7 d
<b>ENDOSULFAN SULFATE UNLABELED (1031-07-8 (unlabeled))</b>	
LC50 fish 1	< 0.1 mg/l Carassius auratus (goldfish) - 48 h
EC50 Daphnia 1	0.76 mg/l Daphnia magna (Water flea) - 48 h

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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<b>LINDANE (13C6, 99%) (58-89-9 (unlabeled))</b>	
LC50 fish 1	0.2 mg/l Cyprinus carpio (Carp) - 96 h
EC50 Daphnia 1	0.8 - 6.5 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	4 mg/l 72 h
NOEC chronic fish	0.056 mg/l Oncorhynchus mykiss (rainbow trout) - 3 d

<b>ENDOSULFAN SULFATE (13C9, 99%) (1031-07-8 (unlabeled))</b>	
LC50 fish 1	< 0.1 mg/l Carassius auratus (goldfish) - 48 h
EC50 Daphnia 1	0.76 mg/l Daphnia magna (Water flea) - 48 h

<b>ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (unlabeled))</b>	
LC50 fish 1	0.012 mg/l Lepomis macrochirus - 24 h

### 12.2. Persistence and degradability

<b>EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE</b>	
Persistence and degradability	May cause long-term adverse effects in the environment.

<b>HEXACHLOROBENZENE (13C6, 99%) (118-74-1 (Unlabeled))</b>	
Persistence and degradability	Not available.

<b>HEXACHLOROBENZENE UNLABELED (118-74-1 (Unlabeled))</b>	
Persistence and degradability	Not available.

<b>ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))</b>	
Persistence and degradability	Not available.

<b>PENTACHLOROBENZENE (13C6, 99%) (608-93-5 (Unlabeled))</b>	
Persistence and degradability	No data available.

<b>PENTACHLOROBENZENE UNLABELED (608-93-5 (Unlabeled))</b>	
Persistence and degradability	No data available.

<b>ALDRIN UNLABELED (309-00-2)</b>	
Persistence and degradability	Not available.

<b>DIELDRIN (13C12, 98-99%) (60-57-1)</b>	
Persistence and degradability	Not available.

<b>4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))</b>	
Persistence and degradability	Not available.

<b>4,4'-DDT (RING-13C12, 99%) (50-29-3 (Unlabeled))</b>	
Persistence and degradability	Not available.

<b>ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))</b>	
Persistence and degradability	Not available.

<b>4,4'-DDE UNLABELED (72-55-9 (Unlabeled))</b>	
Persistence and degradability	Not available.

<b>DIELDRIN UNLABELED (60-57-1 (unlabeled))</b>	
Persistence and degradability	Not available.

<b>ENDRIN UNLABELED (72-20-8)</b>	
Persistence and degradability	Not available.

<b>4,4'-DDT UNLABELED (50-29-3 (Unlabeled))</b>	
Persistence and degradability	Not available.

<b>OXYCHLORDANE (13C10, 99%) (27304-13-8 (Unlabeled))</b>	
Persistence and degradability	Not available.

<b>TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (unlabeled))</b>	
Persistence and degradability	Not available.

<b>CIS-NONACHLOR (13C10, 98%) (5103-73-1 (unlabeled))</b>	
Persistence and degradability	Not available.

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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<b>2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))</b>	
Persistence and degradability	Not available.
<b>TRANS-CHLORDANE (GAMMA) (13C10, 99%) (5103-74-2 (Unlabeled))</b>	
Persistence and degradability	Not available.
<b>2,4'-DDD (RING-13C12, 99%) (53-19-0 (Unlabeled))</b>	
Persistence and degradability	Not available.
<b>2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)</b>	
Persistence and degradability	Not available.
<b>2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))</b>	
Persistence and degradability	Not available.
<b>4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabeled))</b>	
Persistence and degradability	Not available.
<b>CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9 (Unlabeled))</b>	
Persistence and degradability	Not available.
<b>TRANS-NONACHLOR UNLABELED (39765-80-5 (unlabeled))</b>	
Persistence and degradability	Not available.
<b>CIS-NONACHLOR UNLABELED (5103-73-1 (unlabeled))</b>	
Persistence and degradability	Not available.
<b>TRANS-CHLORDANE (GAMMA) UNLABELED (5103-74-2 (Unlabeled))</b>	
Persistence and degradability	Not available.
<b>2,4'-DDD UNLABELED (53-19-0)</b>	
Persistence and degradability	Not available.
<b>2,4'-DDE UNLABELED (3424-82-6 (Unlabeled))</b>	
Persistence and degradability	Not available.
<b>4,4'-DDD UNLABELED (72-54-8)</b>	
Persistence and degradability	Not available.
<b>N-NONANE UNLABELED (111-84-2)</b>	
Persistence and degradability	Not available.
<b>ISOCTANE UNLABELED (540-84-1)</b>	
Persistence and degradability	Not available.
<b>DELTA-BHC (13C6, 99%) (319-86-8 (Unlabeled))</b>	
Persistence and degradability	No data available.
<b>MIREX (13C10, 99%) (2385-85-5 (unlabeled))</b>	
Persistence and degradability	Not available.
<b>BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))</b>	
Persistence and degradability	Not available.
<b>CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))</b>	
Persistence and degradability	Not available.
<b>HEPTACHLOR (13C10, 99%) (76-44-8 (unlabeled))</b>	
Persistence and degradability	Not available.
<b>ENDOSULFAN-II (13C9, 99%) (33213-65-9 (Unlabeled))</b>	
Persistence and degradability	Not available.
<b>ENDOSULFAN-I (13C9, 99%) (959-98-8)</b>	
Persistence and degradability	Not available.
<b>KEPONE (CHLORDECONE) (13C10, 99%) (143-50-0 (Unlabeled))</b>	
Persistence and degradability	Not available.
<b>ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled))</b>	
Persistence and degradability	No data available.

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>2,3',4',5-TETRACB (PCB-70) (13C12, 99%) (208263-81-4)</b>	
Persistence and degradability	Not available.
<b>4,4'-DICB (PCB-15) (13C12, 99%) (208263-67-6)</b>	
Persistence and degradability	Not available.
<b>MIREX UNLABELED (2385-85-5)</b>	
Persistence and degradability	Not available.
<b>ALPHA-BHC UNLABELED (319-84-6 (Unlabeled))</b>	
Persistence and degradability	No data available.
<b>DELTA-BHC UNLABELED (319-86-8)</b>	
Persistence and degradability	Not available.
<b>HEPTACHLOR UNLABELED (76-44-8)</b>	
Persistence and degradability	Not available.
<b>CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3 (Unlabeled))</b>	
Persistence and degradability	Not available.
<b>TRANS-HEPTACHLOR EPOXIDE UNLABELED (28044-83-9 (unlabeled))</b>	
Persistence and degradability	Not available.
<b>BETA-BHC UNLABELED (319-85-7 (Unlabeled))</b>	
Persistence and degradability	No data available.
<b>ENDOSULFAN-II UNLABELED (33213-65-9)</b>	
Persistence and degradability	Not available.
<b>OXYCHLORDANE UNLABELED (27304-13-8)</b>	
Persistence and degradability	Not available.
<b>KEPONE (CHLORDECONE) UNLABELED (143-50-0)</b>	
Persistence and degradability	Not available.
<b>ENDOSULFAN-I UNLABELED (959-98-8)</b>	
Persistence and degradability	Not available.
<b>ENDOSULFAN SULFATE UNLABELED (1031-07-8 (unlabeled))</b>	
Persistence and degradability	Not available.
<b>ENDOSULFAN SULFATE (13C9, 99%) (1031-07-8 (unlabeled))</b>	
Persistence and degradability	Not available.
<b>ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (unlabeled))</b>	
Persistence and degradability	Not available.
<b>12.3. Bioaccumulative potential</b>	
<b>EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE</b>	
Log Pow	5.65
Bioaccumulative potential	Indication of bioaccumulation.
<b>HEXACHLOROBENZENE UNLABELED (118-74-1 (Unlabeled))</b>	
Bioconcentration factor (BCF REACH)	22000
Bioaccumulative potential	Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d.
<b>ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))</b>	
Log Pow	6.50
<b>PENTACHLOROBENZENE UNLABELED (608-93-5 (Unlabeled))</b>	
Bioaccumulative potential	Pimephales promelas (fathead minnow)-31d.
<b>ALDRIN UNLABELED (309-00-2)</b>	
Log Pow	6.50
<b>DIELDRIN (13C12, 98-99%) (60-57-1)</b>	
Bioaccumulative potential	Not available.
<b>4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))</b>	
Log Pow	6.51

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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<b>4,4'-DDT (RING-13C12, 99%) (50-29-3 (Unlabeled))</b>	
BCF fish 1	>=
Log Pow	6.91
<b>ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))</b>	
Log Pow	5.20
<b>4,4'-DDE UNLABELED (72-55-9 (Unlabeled))</b>	
BCF fish 1	0.00384 mg/l Gambusia affinis (Mosquito Fish) - 33 d
Bioconcentration factor (BCF REACH)	12037
Log Pow	6.51
<b>DIELDRIN UNLABELED (60-57-1 (unlabeled))</b>	
Bioaccumulative potential	Not available.
<b>ENDRIN UNLABELED (72-20-8)</b>	
Bioconcentration factor (BCF REACH)	13000
Log Pow	5.20
Bioaccumulative potential	Pimephales promela (fathead minnow)-56d-0.63 mg/l.
<b>4,4'-DDT UNLABELED (50-29-3 (Unlabeled))</b>	
Log Pow	6.91
<b>OXYCHLORDANE (13C10, 99%) (27304-13-8 (Unlabeled))</b>	
Bioaccumulative potential	Not available.
<b>TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (unlabeled))</b>	
Log Pow	6.35
Bioaccumulative potential	Not available.
<b>CIS-NONACHLOR (13C10, 98%) (5103-73-1 (unlabeled))</b>	
Log Pow	2.794
Bioaccumulative potential	Not available.
<b>TRANS-CHLORDANE (GAMMA) (13C10, 99%) (5103-74-2 (Unlabeled))</b>	
Bioaccumulative potential	Not available.
<b>2,4'-DDD (RING-13C12, 99%) (53-19-0 (Unlabeled))</b>	
Bioaccumulative potential	Not available.
<b>2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)</b>	
Bioconcentration factor (BCF REACH)	37000 Pimephales promelas (fathead minnow) - 32 d
<b>2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))</b>	
Log Pow	5.58
Bioaccumulative potential	Not available.
<b>4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabeled))</b>	
Log Pow	6.02
Bioaccumulative potential	Indication of bioaccumulation.
<b>CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9 (Unlabeled))</b>	
Bioconcentration factor (BCF REACH)	332
Bioaccumulative potential	Lepomis macrochirus (Bluegill)-24h.
<b>TRANS-NONACHLOR UNLABELED (39765-80-5 (unlabeled))</b>	
Log Pow	6.35
Bioaccumulative potential	Not available.
<b>CIS-NONACHLOR UNLABELED (5103-73-1 (unlabeled))</b>	
Log Pow	2.794
Bioaccumulative potential	Not available.
<b>TRANS-CHLORDANE (GAMMA) UNLABELED (5103-74-2 (Unlabeled))</b>	
Bioaccumulative potential	Not available.
<b>2,4'-DDD UNLABELED (53-19-0)</b>	
Bioaccumulative potential	Not available.



# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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<b>2,4'-DDE UNLABELED (3424-82-6 (Unlabeled))</b>	
Log Pow	5.58
Bioaccumulative potential	Not available.
<b>4,4'-DDD UNLABELED (72-54-8)</b>	
Log Pow	6.02
Bioaccumulative potential	Indication of bioaccumulation.
<b>N-NONANE UNLABELED (111-84-2)</b>	
Log Pow	5.65
Bioaccumulative potential	Indication of bioaccumulation.
<b>ISOCTANE UNLABELED (540-84-1)</b>	
Bioaccumulative potential	Not available.
<b>MIREX (13C10, 99%) (2385-85-5 (unlabeled))</b>	
Log Pow	5.28
<b>BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))</b>	
Log Pow	3.78
<b>CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))</b>	
BCF fish 1	>=
Log Pow	5.40
<b>ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled))</b>	
Log Pow	3.80
<b>2,3',4',5-TETRACB (PCB-70) (13C12, 99%) (208263-81-4)</b>	
Bioaccumulative potential	Not available.
<b>4,4'-DICB (PCB-15) (13C12, 99%) (208263-67-6)</b>	
Log Pow	4.1
<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 (Unlabeled))</b>	
Bioconcentration factor (BCF REACH)	250
Log Pow	3.80
Bioaccumulative potential	Bioaccumulation 0.8mg/L other fish-96h.
<b>DELTA-BHC UNLABELED (319-86-8)</b>	
Bioconcentration factor (BCF REACH)	326
Bioaccumulative potential	Bioaccumulation other fish-33d.
<b>HEPTACHLOR UNLABELED (76-44-8)</b>	
Bioconcentration factor (BCF REACH)	23814
Bioaccumulative potential	Bioaccumulation Pimephales promelas (fathead minnow)-276 d.
<b>CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3 (Unlabeled))</b>	
Bioconcentration factor (BCF REACH)	14400
Log Pow	5.40
Bioaccumulative potential	Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d.
<b>TRANS-HEPTACHLOR EPOXIDE UNLABELED (28044-83-9 (unlabeled))</b>	
Bioaccumulative potential	Not available.
<b>BETA-BHC UNLABELED (319-85-7 (Unlabeled))</b>	
Bioconcentration factor (BCF REACH)	500
Log Pow	3.78
Bioaccumulative potential	Bioaccumulative potential Cyprinus carpio (Carp)-35d-0.05 mg/l.
<b>OXYCHLORDANE UNLABELED (27304-13-8)</b>	
Bioaccumulative potential	Not available.

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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<b>ENDOSULFAN-I UNLABELED (959-98-8)</b>	
BCF fish 1	0.002 mg/l
Bioconcentration factor (BCF REACH)	10994
<b>ENDOSULFAN SULFATE UNLABELED (1031-07-8 (unlabeled))</b>	
Log Pow	3.66
Bioaccumulative potential	Not available.
<b>ENDOSULFAN SULFATE (13C9, 99%) (1031-07-8 (unlabeled))</b>	
Log Pow	3.66
Bioaccumulative potential	Not available.
<b>12.4. Mobility in soil</b>	
<b>EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE</b>	
Ecology - soil	Not available.
<b>HEXACHLOROBENZENE (13C6, 99%) (118-74-1 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>HEXACHLOROBENZENE UNLABELED (118-74-1 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>ALDRIN (13C12, 99%) (309-00-2 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>PENTACHLOROBENZENE (13C6, 99%) (608-93-5 (Unlabeled))</b>	
Ecology - soil	No data available.
<b>PENTACHLOROBENZENE UNLABELED (608-93-5 (Unlabeled))</b>	
Ecology - soil	No data available.
<b>ALDRIN UNLABELED (309-00-2)</b>	
Ecology - soil	Not available.
<b>DIELDRIN (13C12, 98-99%) (60-57-1)</b>	
Ecology - soil	Not available.
<b>4,4'-DDE (RING-13C12, 99%) (72-55-9 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>4,4'-DDT (RING-13C12, 99%) (50-29-3 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>ENDRIN (13C12, 99%) (72-20-8 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>4,4'-DDE UNLABELED (72-55-9 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>DIELDRIN UNLABELED (60-57-1 (unlabeled))</b>	
Ecology - soil	Not available.
<b>ENDRIN UNLABELED (72-20-8)</b>	
Ecology - soil	Not available.
<b>4,4'-DDT UNLABELED (50-29-3 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>OXYCHLORDANE (13C10, 99%) (27304-13-8 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>TRANS-NONACHLOR (13C10, 98%) (39765-80-5 (unlabeled))</b>	
Ecology - soil	Not available.
<b>CIS-NONACHLOR (13C10, 98%) (5103-73-1 (unlabeled))</b>	
Ecology - soil	Not available.
<b>2,4'-DDT (RING-13C12, 99%) (789-02-6 (Unlabeled))</b>	
Ecology - soil	Not available.

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>TRANS-CHLORDANE (GAMMA) (13C10, 99%) (5103-74-2 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>2,4'-DDD (RING-13C12, 99%) (53-19-0 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>2,4'-DDT UNLABELED (97% CHEMICAL PURITY) (789-02-6)</b>	
Ecology - soil	Not available.
<b>2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>4,4'-DDD (RING-13C12, 99%) (72-54-8 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>CIS-CHLORDANE(ALPHA) UNLABELED (5103-71-9 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>TRANS-NONACHLOR UNLABELED (39765-80-5 (unlabeled))</b>	
Ecology - soil	Not available.
<b>CIS-NONACHLOR UNLABELED (5103-73-1 (unlabeled))</b>	
Ecology - soil	Not available.
<b>TRANS-CHLORDANE (GAMMA) UNLABELED (5103-74-2 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>2,4'-DDD UNLABELED (53-19-0)</b>	
Ecology - soil	Not available.
<b>2,4'-DDE UNLABELED (3424-82-6 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>4,4'-DDD UNLABELED (72-54-8)</b>	
Ecology - soil	Not available.
<b>N-NONANE UNLABELED (111-84-2)</b>	
Ecology - soil	Not available.
<b>ISOCTANE UNLABELED (540-84-1)</b>	
Ecology - soil	Not available.
<b>DELTA-BHC (13C6, 99%) (319-86-8 (Unlabeled))</b>	
Ecology - soil	No data available.
<b>MIREX (13C10, 99%) (2385-85-5 (unlabeled))</b>	
Ecology - soil	Not available.
<b>BETA-BHC (13C6, 99%) (319-85-7 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>CIS-HEPTACHLOR EPOXIDE (13C10, 99%) (1024-57-3 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>HEPTACHLOR (13C10, 99%) (76-44-8 (unlabeled))</b>	
Ecology - soil	Not available.
<b>ENDOSULFAN-II (13C9, 99%) (33213-65-9 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>ENDOSULFAN-I (13C9, 99%) (959-98-8)</b>	
Ecology - soil	Not available.
<b>KEPONE (CHLORDECONE) (13C10, 99%) (143-50-0 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>ALPHA-BHC (13C6, 99%) (319-84-6 (Unlabeled))</b>	
Ecology - soil	No data available.
<b>2,3',4',5-TETRACB (PCB-70) (13C12, 99%) (208263-81-4)</b>	
Ecology - soil	Not available.

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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<b>4,4'-DICB (PCB-15) (13C12, 99%) (208263-67-6)</b>	
Ecology - soil	Not available.
<b>MIREX UNLABELED (2385-85-5)</b>	
Ecology - soil	Not available.
<b>ALPHA-BHC UNLABELED (319-84-6 (Unlabeled))</b>	
Ecology - soil	No data available.
<b>DELTA-BHC UNLABELED (319-86-8)</b>	
Ecology - soil	Not available.
<b>HEPTACHLOR UNLABELED (76-44-8)</b>	
Ecology - soil	Not available.
<b>CIS-HEPTACHLOR EPOXIDE UNLABELED (1024-57-3 (Unlabeled))</b>	
Ecology - soil	Not available.
<b>TRANS-HEPTACHLOR EPOXIDE UNLABELED (28044-83-9 (unlabeled))</b>	
Ecology - soil	Not available.
<b>BETA-BHC UNLABELED (319-85-7 (Unlabeled))</b>	
Ecology - soil	No data available.
<b>ENDOSULFAN-II UNLABELED (33213-65-9)</b>	
Ecology - soil	Not available.
<b>OXYCHLORDANE UNLABELED (27304-13-8)</b>	
Ecology - soil	Not available.
<b>KEPONE (CHLORDECONE) UNLABELED (143-50-0)</b>	
Ecology - soil	Not available.
<b>ENDOSULFAN-I UNLABELED (959-98-8)</b>	
Ecology - soil	Not available.
<b>ENDOSULFAN SULFATE UNLABELED (1031-07-8 (unlabeled))</b>	
Ecology - soil	Not available.
<b>ENDOSULFAN SULFATE (13C9, 99%) (1031-07-8 (unlabeled))</b>	
Ecology - soil	Not available.
<b>ISODRIN (CHEMICAL PURITY 95%) (13C12, 99%) (465-73-6 (unlabeled))</b>	
Ecology - soil	Not available.

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

Other adverse effects : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 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.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Hazardous waste due to toxicity.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

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

### 14.2. UN proper shipping name

DOT Proper Shipping Name : Nonanes

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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Department of Transportation (DOT) Hazard Classes : 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

Other information : No supplementary information available.

#### Overland transport

Packing group (ADR) : III  
Class (ADR) : 3 - Flammable liquid  
Hazard identification number (Kemler No.) : 30  
Classification code (ADR) : F1  
Danger labels (ADR) : 3 - Flammable liquids



Orange plates : An orange rectangular hazard plate with a black border. It is divided into two horizontal sections. The top section contains the number '30' and the bottom section contains the number '1920'.

Tunnel restriction code : 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

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### 14.4. Environmental hazards

Other information : No supplementary information available.

### 14.5. Special precautions for user

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE

SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard
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#### N-NONANE UNLABELED (111-84-2)

SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard
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#### ISOCTANE UNLABELED (540-84-1)

SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
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### 15.2. International regulations

#### CANADA

#### EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE

Listed on the Canadian DSL (Domestic Substances List) inventory.

#### 15.2.1. National regulations

No additional information available

### 15.3. US State regulations

#### EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE()

State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
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#### N-NONANE UNLABELED (111-84-2)

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  
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### ISOCTANE UNLABELED (540-84-1)

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  
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## 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.

# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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Full text of R-, H- and EUH-phrases::

Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1
Acute Tox. 1 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 1
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 (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
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Flam. Sol. 1	Flammable solids Category 1
Lact.	Reproductive toxicity (Lact.)
Repr. 2	Reproductive toxicity Category 2
Resp. Sens. 1	Respiratory sensitisation Category 1
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
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
H228	Flammable solid
H300	Fatal if swallowed
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H310	Fatal in contact with skin
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties 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
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
H412	Harmful to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

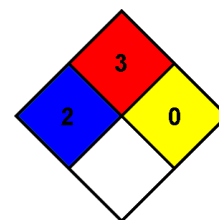
# EXPANDED POPS PESTICIDES CAL SOLN W/ ENDOSULFAN SULFATE CS2 (UNLABELED/13C, 99%) IN NONANE ES-5464-A-CS2

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R10	Flammable
R11	Highly flammable
R20	Harmful by inhalation
R20/21	Harmful by inhalation and in contact with skin
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
R28	Very toxic if swallowed
R33	Danger of cumulative effects
R36	Irritating to eyes
R36/37/38	Irritating to eyes, respiratory system and skin
R38	Irritating to skin
R40	Limited evidence of a carcinogenic effect
R42	May cause sensitization by inhalation
R45	May cause cancer
R48	Danger of serious damage to health by prolonged exposure
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
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
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R64	May cause harm to breastfed babies
R65	Harmful: may cause lung damage if swallowed
R67	Vapors may cause drowsiness and dizziness
F	Highly flammable
N	Dangerous for the environment
T	Toxic
T+	Very toxic
Xi	Irritant
Xn	Harmful

- NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
- NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all ambient conditions.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



### HMIS III Rating

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

### CIL 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*