

# 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

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CLM-4693-S

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

1.1. Product identifier

Product form : Mixtures

Product name : 2,4'-DDE (RING-13C12, 99%) 100 UG/ML IN NONANE

Product code : CLM-4693-S

## 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 <u>cilsales@isotope.com</u> 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:vapour)
 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]

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

Full text of R-phrases: see section 16

# **GHS-US** classification

Flam. Liq. 3 H226
Acute Tox. 4 (Inhalation) H332
Skin Irrit. 2 H315
Eye Irrit. 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

Central Nervous System. Flammable liquid and vapor. May cause drowsiness or dizziness. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways.

#### 2.2. Label elements

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

Hazard pictograms (CLP)







GHS02

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

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 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 eye protection, face protection, protective clothing, protective gloves.

# **GHS-US** labeling

Hazard pictograms (GHS-US)







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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, 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 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 eye protection, face protection, protective clothing, protective gloves.

P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER

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 doctor, a POISON CENTER if you feel unwell

P321 - Specific treatment (see Hazardous component(s) for labeling on this label)

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.

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P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry

extinguishing powder 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	99.986	R10 Xn; R20 Xn; R65 Xi; R36/38 R67
2,4'-DDE (RING-13C12, 99%)	(CAS-No.) 3424-82-6 (Unlabeled) (EC-No.) 222-318-0	0.014	Carc.Cat.3; R40 Xn; R22 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	99.986	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
2,4'-DDE (RING-13C12, 99%)	(CAS-No.) 3424-82-6 (Unlabeled) (EC-No.) 222-318-0	0.014	Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	GHS-US classification
N-NONANE UNLABELED	(CAS-No.) 111-84-2	99.986	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
2,4'-DDE (RING-13C12, 99%)	(CAS-No.) 3424-82-6 (Unlabeled)	0.014	Acute Tox. 4 (Oral), H302 Carc. 2, H351

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

# **SECTION 4: First aid measures**

	4.1.	<b>Description of first aid measures</b>
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First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor/physician if you feel unwell. Give oxygen or artificial respiration if necessary.

Aquatic Acute 1, H400 Aquatic Chronic 1, H410

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin

irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

# 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. May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation. May be harmful in contact with skin.

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

Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. Risk of lung edema.

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

Treat symptomatically.

# 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.

# **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

2,4'-DDE (RING-13C12, 99%)	100 UG/ML IN NONANE	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm USA. ACGIH Threshold Limit
_		Values (TLV)

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2,4'-DDE (RING-13C12, 99%)	100 UG/ML IN NONANE			
Italy - Portugal - USA ACGIH	Remark (ACGIH)	CNS impair		
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1050 mg/m³ USA. NIOSH Recommended Exposure Limits		
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm USA. NIOSH Recommended Exposure Limits		
USA NIOSH	Remark (NIOSH)	Central Nervous System impairment		
USA OSHA	OSHA PEL (TWA) (mg/m³)	1050 mg/m³ USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000		
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000		
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	1050 California permissible exposure limits for chemical contaminants.		
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm California permissible exposure limits for chemical contaminants.		
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/m³)	1050 mg/m³ USA. NIOSH Recommended Exposure Limits		
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm USA. NIOSH Recommended Exposure Limits		
USA NIOSH	Remark (NIOSH)	Central Nervous System impairment		
USA OSHA	OSHA PEL (TWA) (mg/m³)	1050 mg/m³ USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000		
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000		
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	1050 California permissible exposure limits for chemical contaminants.		
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm California permissible exposure limits for chemical contaminants.		

# **Exposure controls**

Appropriate engineering controls

: Ensure good ventilation of the work station.

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









Materials for protective clothing

: Wear suitable protective clothing and gloves.

Hand protection

: protective gloves.

Eye protection

Chemical goggles or face shield. Chemical goggles or safety glasses. Wear suitable protective clothing, gloves and eye/face protection.

Skin and body protection Respiratory protection

Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended. Approved respirator.

Environmental exposure controls

: Avoid release to the environment.

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

# 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 g/mol Color : Colorless

Odor : No data available Odor threshold : No data available рΗ : No data available

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Relative evaporation rate (butyl acetate=1)

Melting point

: No data available

: Not applicable

: -53 °C (- 63 °F) - lit

Boiling point

: 151 °C (304 °F) - lit

Flash point

: 31 °C (87.8 °F) - closed cup

Auto-ignition temperature : 205 °C (401 °F)

Decomposition temperature : No data available

Flammability (solid, gas) : Not applicable

Vapor pressure : 5.69 hPa (4.27 mmHg) at 25 °C (77 °F)

Relative vapor density at 20 °C : No data available Relative density : No data available

Specific gravity / density : 0.718 g/ml at 25 °C (77 °F)

Solubility : Water: 0.0002 % at 25 °C (77 °F) - slightly soluble

Log Pow : 5.65

Log Kow : No data available

Viscosity, kinematic : <= 1.008 mm²/s at 20 °C (68 °F)

Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosion limits : 0.87 - 2.9 % (V)

### 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

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

### 10.2. Chemical stability

See storage and expiration date on CoA.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

# 10.4. Conditions to avoid

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

# 10.5. Incompatible materials

No additional information available

# 10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Inhalation:vapour: Harmful if inhaled

2,4"-DDE (RING-13C12, 99%) 100 UG/ML IN NONANE			
LC50 inhalation rat (mg/l)	23760 mg/m³ male - 4 h		
ATE CLP (vapors)	11.000 mg/l/4h		
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)		
Additional information	: S. Typhimurium Result: negative		
N-NONANE UNLABELED (111-84-2)			
LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h			
ATE CLP (vapors)	11.000 mg/l/4h		
Skin corrosion/irritation, Dermal, rat Result: Skin Irritation (Draize Test)			
Additional information	: S. Typhimurium Result: negative		
2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))			

2,4"-DDE (RING-13C12, 99%) (3424-82-6 (Unian	eled))
LD50 oral rat	880 mg/kg
ATE CLP (oral)	880.000 mg/kg body weight
Skin corrosion/irritation :	Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

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: May be fatal if swallowed and enters airways.

: Not classified Respiratory or skin sensitization 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

Potential Adverse human health effects and

symptoms

Aspiration hazard

: 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. May cause respiratory irritation.

: Causes skin irritation. May be harmful in contact with skin. Symptoms/effects after skin contact

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

: May be fatal if swallowed and enters airways. Risk of lung edema. Symptoms/effects after ingestion

# **SECTION 12: Ecological information**

#### Toxicity

Ecology - general

The product is not considered harmful to aquatic organisms or to cause long-term adverse

effects in the environment.

#### 12.2. Persistence and degradability

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

Persistence and degradability May cause long-term adverse effects in the environment.

#### 12.3. Bioaccumulative potential

2,4'-DDE (RING-13C12, 99%)	100 UG/ML IN N	ONANE
Log Pow		5.65

Indication of bioaccumulation. Bioaccumulative potential

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

Bioaccumulative potential Indication of bioaccumulation

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

5.58 Log Pow

### **Mobility in soil**

No additional information available

# Results of PBT and vPvB assessment

No additional information available

# Other adverse effects

Other adverse effects : Disposal must be done according to official regulations.

# **SECTION 13: Disposal considerations**

## Waste treatment methods

: Waste materials should be disposed of under conditions which meet Federal, State, and local Regional legislation (waste)

environmental control regulations.

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed Product/Packaging disposal recommendations

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

# **UN** number

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

# **UN** proper shipping name

Proper Shipping Name (DOT) : Nonanes

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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 Marine pollutant : No

#### **Additional information** 14.3.

Emergency Response Guide (ERG) Number : 128

Other information : No supplementary information available.

# **Overland transport**

Packing group (ADR) : 111

Class (ADR) : 3 - Flammable liquid

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

Hazard labels (ADR) : 3 - Flammable liquids



Orange plates

Tunnel restriction code (ADR) : D/E Limited quantities (ADR) 51 : 3Y Excepted quantities (ADR) : E1

# Transport by sea

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

passenger vessel.

MFAG-No : 128

# Air transport

DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

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# 2,4'-DDE (RING-13C12, 99%) 100 UG/ML IN NONANE CLM-4693-S

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Civil Aeronautics Law : Flammable liquids

#### **Environmental hazards** 14.4.

Other information : No supplementary information available.

#### 14.5. Special precautions for user

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

Not applicable

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

2,4'-DDE (RING-13C12, 99%) 100 UG/ML IN NONANE		
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.	

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

2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))		
SARA Section 302 Threshold Planning Quantity (TPQ)  Not subject to reporting requirements of the United States SARA Section 302.		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.	

# 15.2. International regulations

# **CANADA**

# 2,4'-DDE (RING-13C12, 99%) 100 UG/ML IN NONANE

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. **National regulations**

No additional information available

# 15.3. US State regulations

2,4'-DDE (RING-13C12, 99%) 100 UG/ML IN NONANE()			
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 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		

N-NONANE UNLABELED (111-84-2)				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	

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N-NONANE UNLABELED (111-84-2)				
		Female	Male	
No	No	No	No	
2,4'-DDE (RING-13C12, 99%) (3424-82-6 (Unlabeled))				
U.S California - Proposition 65 -	U.S California - Proposition 65 -	U.S California - Proposition 65 -	U.S California - Proposition 65 -	No significant risk level (NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	()
No	No	No	No	

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

# State or local regulations

- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances

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

### State or local regulations

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

# **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 toxicity (inhelation years) Cotagon (A		
Acute toxicity (inhalation:vapour) Category 4		
Acute toxicity (oral) Category 4		
Hazardous to the aquatic environment - Acute Hazard Category 1		
Hazardous to the aquatic environment - Chronic Hazard Category 1		
Aspiration hazard Category 1		
Carcinogenicity Category 2		
Serious eye damage/eye irritation Category 2		
Flammable liquids Category 3		
Skin corrosion/irritation Category 2		
Specific target organ toxicity (single exposure) Category 3		
Flammable liquid and vapor		
Harmful if swallowed		
May be fatal if swallowed and enters airways		
Causes skin irritation		
Causes serious eye irritation		
Harmful if inhaled		
May cause drowsiness or dizziness		
Suspected of causing cancer		
Very toxic to aquatic life		
Very toxic to aquatic life with long lasting effects		
Flammable		
Harmful by inhalation		
Harmful if swallowed		
Irritating to eyes and skin		
Limited evidence of a carcinogenic effect		
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment		
Harmful: may cause lung damage if swallowed		
Vapors may cause drowsiness and dizziness		
Dangerous for the environment		
Irritant		
Harmful		

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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

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

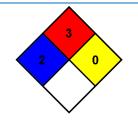
: 3 - Liquids and solids (including finely divided suspended

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**

NFPA fire hazard

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

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