



# PARATHION (DIETHYL-D10, 98%)

## 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

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**DLM-2970**

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

#### 1.1. Product identifier

Product form : Substance  
Substance name : PARATHION (DIETHYL-D10, 98%)  
EC index no : 015-034-00-1 (Unlabeled)  
EC no : 200-271-7 (Unlabeled)  
CAS No : 350820-04-1  
Product code : DLM-2970  
Formula :  $\text{NO}_2(\text{C}_6\text{H}_4)\text{OP}(=\text{S})(\text{OC}_2\text{D}_5)_2$   
Synonyms : Parathion-ethyl / Ethylparathione / O,O-Diethyl-d10 O-(4-nitrophenyl) phosphorothioate

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

##### 1.2.1. Relevant identified uses

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

##### 1.2.2. Uses advised against

No additional information available

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

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

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

#### Emergency telephone number

Emergency numbers:

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

### SECTION 2: Hazards identification

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

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

Acute Tox. 1 (Oral) H300  
Acute Tox. 1 (Dermal) H310  
Acute Tox. 2 (Inhalation:dust,mist) H330  
Carc. 2 H351  
STOT RE 1 H372  
Aquatic Acute 1 H400  
Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

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

T; R24  
T+; R26/28  
N; R50/53  
T; R48/24  
Carc.Cat.3; R40

Full text of R-phrases: see section 16

##### Classification (GHS-US)

Acute Tox. 1 (Oral) H300  
Acute Tox. 1 (Dermal) H310  
Acute Tox. 2 (Inhalation:dust,mist) H330  
Carc. 2 H351  
STOT RE 1 H372

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Aquatic Acute 1 H400  
Aquatic Chronic 1 H410

### Adverse physicochemical, human health and environmental effects

Central nervous system, Blood, Heart, Eyes, Liver.

## 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08

GHS06

GHS09

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled  
H351 - Suspected of causing cancer (if inhaled, if swallowed, in contact with skin)  
H372 - Causes damage to organs (Skin) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed)  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P260 - Do not breathe dust, fume, gas, mist, spray, vapors  
P264 - Wash Both hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P280 - Wear protective clothing, protective gloves  
P284 - Wear respiratory protection  
P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER

### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS08

GHS06

GHS09

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H300+H310+H330 - Fatal if swallowed, in contact with skin or if inhaled  
H351 - Suspected of causing cancer (Dermal, Inhalation, oral)  
H372 - Causes damage to organs (Skin) through prolonged or repeated exposure (Dermal, Inhalation, oral)  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use  
P202 - Do not handle until all safety precautions have been read and understood  
P260 - Do not breathe dust, fume, gas, mist, spray, vapors  
P262 - Do not get in eyes, on skin, or on clothing  
P264 - Wash Both hands thoroughly after handling  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment  
P280 - Wear protective clothing, protective gloves  
P284 - Wear respiratory protection  
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P308+P313 - IF exposed or concerned: Get medical advice/attention  
P310 - Immediately call a poison center or doctor/physician  
P314 - Get medical advice and attention if you feel unwell  
P320 - Specific treatment is urgent (see Hazard pictograms (CLP) on this label)  
P321 - Specific treatment (see Hazard pictograms (CLP) on this label)  
P330 - If swallowed, rinse mouth  
P361 - Remove/Take off immediately all contaminated clothing  
P363 - Wash contaminated clothing before reuse  
P391 - Collect spillage  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up

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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. Substance

Name	Product identifier	%	Classification according to Directive 67/548/EEC
PARATHION (DIETHYL-D10, 98%) (Main constituent)	(CAS No) 350820-04-1 (EC no) 200-271-7 (Unlabeled) (EC index no) 015-034-00-1 (Unlabeled)	100	T; R24 T+; R26/28 N; R50/53 T; R48/24 Carc.Cat.3; R40

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
PARATHION (DIETHYL-D10, 98%) (Main constituent)	(CAS No) 350820-04-1 (EC no) 200-271-7 (Unlabeled) (EC index no) 015-034-00-1 (Unlabeled)	100	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410

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

Name	Product identifier	%	Classification (GHS-US)
PARATHION (DIETHYL-D10, 98%) (Main constituent)	(CAS No) 350820-04-1	100	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation	: If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	: Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
First-aid measures after eye contact	: Flush eye with water for 15 minutes. Get medical attention.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

Symptoms/injuries after inhalation	: May be fatal if inhaled. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May be fatal if absorbed through skin. May cause skin irritation.
Symptoms/injuries after eye contact	: Contact may cause eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed.

### 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 : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

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

No additional information available

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### 5.3. Advice for firefighters

- Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

#### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

- For containment : Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

### 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 : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.  
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 : Keep container tightly closed in a cool, dry and well-ventilated place.  
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

PARATHION (DIETHYL-D10, 98%) (350820-04-1)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.0500000000 mg/m <sup>3</sup> USA. ACGIH Threshold Limit Values (TLV) - Cholinesterase inhibition - Not classifiable as a human carcinogen - Danger of cutaneous absorption
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	0.05 USA. NIOSH Recommended Exposure Limits - Potential for dermal absorption
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	0.1000000000 mg/m <sup>3</sup> USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - Skin designation
USA OSHA	OSHA PEL (Ceiling) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> California permissible exposure limits for chemical contaminants (Title 8, Article 107)

### 8.2. Exposure controls

- Appropriate engineering controls : Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.  
Personal protective equipment : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



- Hand protection : Wear suitable protective clothing and gloves.  
Eye protection : Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH or EN 166.  
Skin and body protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

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Respiratory protection : When appropriate, use NIOSH/CEN approved respirator.

### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 301.32 g/mol (Labeled)
Color	: Colourless.
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	: No data available
Boiling point	: 157 - 162 °C (315 - 324 °F) at 0.8 hPa (0.6 mmHg)
Flash point	: 120 °C (248 °F) - closed cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: < 1 hPa (< 1 mmHg) at 25 °C (77 °F)
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.270 g/ml
Solubility	: Water: 0 %
Log Pow	: 3.8
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	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable if stored under recommended conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Not available.

#### 10.5. Incompatible materials

Bases.

#### 10.6. Hazardous decomposition products

Fire conditions - Sulphur oxides, Phosphorous oxides.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Fatal if swallowed. Fatal in contact with skin. Fatal if inhaled.

PARATHION (DIETHYL-D10, 98%) (350820-04-1)	
LD50 oral rat	2 mg/kg
LD50 dermal rabbit	15 mg/kg
LC50 inhalation rat (mg/l)	84 mg/m <sup>3</sup> 4 h
ATE CLP (oral)	2.000 mg/kg body weight
ATE CLP (dermal)	15.000 mg/kg body weight

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ATE CLP (vapors)	0.084 mg/l/4h
ATE CLP (dust, mist)	0.084 mg/l/4h
Skin corrosion/irritation	: Not classified Skin - rabbit - Mild skin irritation
Serious eye damage/irritation	: Not classified Eyes - rabbit - Mild eye irritation
Respiratory or skin sensitization	: Not available No data available
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer (if inhaled, if swallowed, in contact with skin).
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified No data available
Specific target organ toxicity (repeated exposure)	: Causes damage to organs (Skin) through prolonged or repeated exposure (in contact with skin, if inhaled, if swallowed). Ingestion - Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Cholinesterase inhibitors can cause heavy salivation and secretion in the lungs. Lachrymation. Blurred vision. Involuntary defecation. Diarrhea. Tremors. Ataxia. Sweating. Hypothermia. Coma. Incoordination. Headache. Nausea. Vomiting. Dizziness. Drowsiness. Confusion. Weakness. Unconsciousness. Anorexia. Cough. Muscle cramps/spasms. Change in pupil size. Chest pain. Convulsions.
IARC group	: 3
Symptoms/injuries after inhalation	: May be fatal if inhaled. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May be fatal if absorbed through skin. May cause skin irritation.
Symptoms/injuries after eye contact	: Contact may cause eye irritation.
Symptoms/injuries after ingestion	: May be fatal if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

PARATHION (DIETHYL-D10, 98%) (350820-04-1)	
LC50 fish 1	0.01 - 0.07 mg/l <i>Cyprinodon variegatus</i> (sheepshead minnow) - 96 h
EC50 Daphnia 1	0.002 mg/l <i>Daphnia magna</i> (Water flea) - 48 h
LC50 fish 2	0.03 mg/l <i>Lepomis macrochirus</i> (Bluegill) - 96 h
ErC50 (algae)	3.6 mg/l <i>Pseudokirchneriella subcapitata</i> (gren algae) - 72 h

### 12.2. Persistence and degradability

PARATHION (DIETHYL-D10, 98%) (350820-04-1)	
Persistence and degradability	Not available.

### 12.3. Bioaccumulative potential

PARATHION (DIETHYL-D10, 98%) (350820-04-1)	
Log Pow	3.8
Bioaccumulative potential	Bioaccumulation <i>Pimephales promelas</i> (fathead minnow) - 260 d - 24.6 ug/l. Bioconcentration factor (BCF): 115.

### 12.4. Mobility in soil

PARATHION (DIETHYL-D10, 98%) (350820-04-1)	
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. Very toxic to aquatic life with long lasting effects.

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### 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 : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
- Ecology - waste materials : Dispose of as unused product.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

- UN-No.(DOT) : 3278
- DOT NA no. : UN3278

#### 14.2. UN proper shipping name

- Proper Shipping Name (DOT) : Organophosphorus compound, liquid, toxic, n.o.s.
- Transport hazard class(es) (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
- Hazard labels (DOT) : 6.1 - Poison inhalation hazard



- DOT Symbols : G - Identifies PSN requiring a technical name
- Packing group (DOT) : I - Great Danger
- DOT Special Provisions (49 CFR 172.102) : 5 - If this material meets the definition for a material poisonous by inhalation (see 171.8 of this subchapter), a shipping name must be selected which identifies the inhalation hazard, in Division 2.3 or Division 6.1, as appropriate.  
T14 - 6 mm Prohibited 178.275(g)(3).  
TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.  
TP13 - Self-contained breathing apparatus must be provided when this hazardous material is transported by sea.  
TP27 - A portable tank having a minimum test pressure of 4 bar (400 kPa) may be used provided the calculated test pressure is 4 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
- DOT Packaging Exceptions (49 CFR 173.xxx) : None
- DOT Packaging Non Bulk (49 CFR 173.xxx) : 201
- DOT Packaging Bulk (49 CFR 173.xxx) : 243
- DOT RQ : 10 lbs
- Marine pollutant : Severe



#### 14.3. Additional information

- Other information : No supplementary information available.

#### Overland transport

- Packing group (ADR) : I
- Class (ADR) : 6.1 - Toxic substances
- Hazard identification number (Kemler No.) : 66
- Classification code (ADR) : T1

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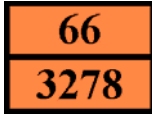
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Hazard labels (ADR) : 6.1 - Toxic substances



Orange plates :



Tunnel restriction code : C/E  
Limited quantities (ADR) : 0  
EAC : 2X  
APP : B  
Excepted quantities (ADR) : E5

### Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

MFAG-No : 151

### Air transport

DOT Quantity Limitations Passenger aircraft/rail : 1 L  
(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 30 L  
CFR 175.75)

Civil Aeronautics Law : Toxic and infectious substances/Toxic substances

### 14.4. Environmental hazards

Dangerous for the environment :



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

#### PARATHION (DIETHYL-D10, 98%) (350820-04-1)

Listed on SARA Section 302 (Specific toxic chemical listings)

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

#### CANADA

#### PARATHION (DIETHYL-D10, 98%) (350820-04-1)

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

### 15.2.1. National regulations

No additional information available



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### 15.3. US State regulations

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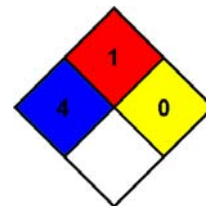
State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List WARNING! This product contains a chemical known by the state of California to cause cancer.
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### SECTION 16: Other information

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

Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1
Acute Tox. 1 (Oral)	Acute toxicity (oral) Category 1
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Carc. 2	Carcinogenicity Category 2
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
H300	Fatal if swallowed
H310	Fatal in contact with skin
H330	Fatal if inhaled
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R24	Toxic in contact with skin
R26/28	Very toxic by inhalation and if swallowed
R40	Limited evidence of a carcinogenic effect
R48/24	Toxic: danger of serious damage to health by prolonged exposure in contact with skin
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
N	Dangerous for the environment
T	Toxic
T+	Very toxic

- NFPA health hazard : 4 - Very short exposure could cause death or serious residual injury even though prompt medical attention was given.
- NFPA fire hazard : 1 - Must be preheated before ignition can occur.
- NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



### HMIS III Rating

- Health : 4 Severe Hazard - Life-threatening, major or permanent damage may result from single or repeated overexposures
- Flammability : 1 Slight Hazard
- Physical : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

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