

#### 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: 14/04/2015 Revision date: : Version: 1.0

CLM-8589-S

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

1.1. Product identifier

Product form : Mixtures

Product name. : AMMELIDE (RING-13C3, 99%) 100 UG/ML IN WATER/DIETHYLAMINE (80/20, V/V)

Product code : CLM-8589-S

#### 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 <a href="mailto:cilsales@isotope.com">cilsales@isotope.com</a> 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]

Skin Irrit. 2 H315
Eye Dam. 1 H318
Resp. Sens. 1 H334
Skin Sens. 1 H317

Full text of H-phrases: see section 16

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

F; R11 Xn; R21/22 R42 Xi; R41 R43 R52/53

Full text of R-phrases: see section 16

## Classification (GHS-US)

Flam. Liq. Not classified Acute Tox. Not classified (Oral) Acute Tox. Not classified (Dermal)

 Skin Irrit. 2
 H315

 Eye Dam. 1
 H318

 Resp. Sens. 1
 H334

 Skin Sens. 1
 H317

 Aquatic Acute 3
 H402

#### Adverse physicochemical, human health and environmental effects

No additional information available

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#### **Label elements**

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

Hazard pictograms (CLP)





GHS08

Signal word (CLP) : Danger

: DIETHYLAMINE UNLABELED Hazardous ingredients Hazard statements (CLP) H315 - Causes skin irritation

> H317 - May cause an allergic skin reaction H318 - Causes serious eye damage

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

: P261 - Avoid breathing fume, mist, spray, vapors Precautionary statements (CLP)

P264 - Wash both hands thoroughly after handling P272 - Contaminated work clothing should not be allowed out of the workplace

P280 - Wear eye protection, face protection, protective gloves, protective clothing

P284 - Wear respiratory protection

P302+P352 - IF ON SKIN: Wash with plenty of water/...

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

#### **GHS-US** labeling

Hazard pictograms (GHS-US)





Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H402 - Harmful to aquatic life

Precautionary statements (GHS-US) P261 - Avoid breathing fume, mist, spray, vapors

P264 - Wash Both hands thoroughly after handling

P272 - Contaminated work clothing should not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear eye protection, face protection, protective clothing, protective gloves

P284 - Wear respiratory protection

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

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

P310 - Immediately call a POISON CENTER or doctor/physician P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

P362 - Take off contaminated clothing and wash before reuse P362+P364 - Take off contaminated clothing and wash it before reuse P501 - Dispose of contents/container to Comply with applicable regulations.

#### Other hazards

No additional information available

#### **SECTION 3: Composition/information on ingredients**

#### **Substances**

Not applicable

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3.2. Mixtures			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
WATER UNLABELED	(CAS No) 7732-18-5 (Unlabeled) (EC no) 231-791-2	84.99297	Not classified
DIETHYLAMINE UNLABELED	(CAS No) 109-89-7 (EC no) 203-716-3	15.00692	Xn; R20/21/22 T; R24 Xi; R38 Xi; R41 R42 R43 F; R11 R52
AMMELIDE (RING-13C3, 99%)	(CAS No) 645-93-2 (Unlabeled)	0.00011	Xn; R22 Xi; R36
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
WATER UNLABELED	(CAS No) 7732-18-5 (Unlabeled) (EC no) 231-791-2	84.99297	Not classified
DIETHYLAMINE UNLABELED	(CAS No) 109-89-7 (EC no) 203-716-3	15.00692	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335
AMMELIDE (RING-13C3, 99%)	(CAS No) 645-93-2 (Unlabeled)	0.00011	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Name	Product identifier	%	Classification (GHS-US)
DIETHYLAMINE UNLABELED	(CAS No) 109-89-7	15.00692	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Acute 3, H402

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 : 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 : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue

rinsing eyes during transport to hospital.

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 harmful if inhaled. Material is extremely destructive to the tissue of the mucous

membranes and upper respiratory tract.

Symptoms/injuries after skin contact : Toxic if absorbed through the skin. Causes skin burns.

Symptoms/injuries after eye contact : Causes eye burns. Causes severe eye burns.

Symptoms/injuries after ingestion : Harmful if swallowed.

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

No additional information available

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## **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

Fire hazard : Highly flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture.

#### 5.3. Advice for firefighters

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

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 dust formation. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Avoid breathing dust.

#### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Do not let product enter drains.

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

For containment : Pick up and arrange disposal without creating dust. Sweep up and shovel. 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 : Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling : No naked lights. No smoking. Use only non-sparking tools.

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**

#### 3.1. Control parameters

AMMELIDE (RING-13C3, 99%) 100 UG/ML IN WATER/DIETHYLAMINE (80/20, V/V)				
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	5.0000000000 ppm Eye & Upper Respiratory Tract irritation. Not classifiable as a human carcinogen		
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	15.0000000000 ppm Eye & Upper Respiratory Tract		

DIETHYLAMINE UNLABELED (109-89-7)					
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	5.0000000000 ppm Eye & Upper Respiratory Tract irritation. Not classifiable as a human carcinogen			
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	15.0000000000 ppm Eye & Upper Respiratory Tract irritation. Not classifiable as a human carcinogen			
USA OSHA	OSHA PEL (TWA) (ppm)	10.0000000000 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000			
USA OSHA	OSHA PEL (STEL) (ppm)	25.0000000000 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000			

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#### 8.2. Exposure controls

Personal protective equipment : Safety glasses. Gloves. Respiratory protection of the dependent type. Protective clothing.



Hand protection : protective 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 : In case of inadequate ventilation wear respiratory protection.

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

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

Physical state : Liquid

Appearance : Clear, colorless liquid.
Color : No data available
Odor : No data available
Odor threshold : No data available

pH : 9 - 10

Relative evaporation rate (butyl acetate=1) : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Flash point : No data available
Self ignition temperature : No data available
Decomposition temperature : No data available

Flammability (solid, gas) : Highly flammable liquid and vapor

Vapor pressure : No data available : No data available Relative vapor density at 20 °C Relative density No data available Solubility : No data available Log Pow : No data available Log Kow No data available Viscosity, kinematic No data available Viscosity, dynamic No data available : No data available Explosive properties 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

See storage and expiration date on CoA.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Open flame. Direct sunlight.

#### 10.5. Incompatible materials

Aldehydes, Alcohols, Dicyanofurazan, Ketones, Phenols, Acids, Halogenated.

#### 10.6. Hazardous decomposition products

Formed under fire conditions: Carbon oxides, nitrogen oxides (NOx). hydrocarbon, Oxidizing agents, Epoxides.

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#### 11.1. Information on toxicological effects

Acute toxicity : Not classified. Not classified.

AMMELIDE (RING-13C3, 99%) 100 UG/ML IN WATER/DIETHYLAMINE (80/20, V/V)		
LD50 oral rat	540 mg/kg	
LD50 dermal rabbit	577 mg/kg	
LC50 inhalation rat (ppm)	4000 ppm - 4h	
ATE (oral)	540.000 mg/kg body weight	
ATE (dermal)	577.000 mg/kg body weight	

DIETHYLAMINE UNLABELED (109-89-7)			
LD50 oral rat	540 mg/kg		
LD50 dermal rabbit	577 mg/kg		
LC50 inhalation rat (ppm)	4000 ppm - 4h		
ATE (oral)	540.000 mg/kg body weight		
ATE (dermal)	577.000 mg/kg body weight		
ATE (dust, mist)	1.500 mg/l/4h		

WATER UNLABELED (7732-18-5 (Unlabeled))			
LD50 oral rat	> 90000 mg/kg		

	•	•	, ,	•	<i>''</i>
ATE (oral)					500.000 ma/ka body weiaht
AIL (Ulai)					300.000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

> Not available pH: 9 - 10

Serious eye damage/irritation : Causes serious eye damage.

> Not available pH: 9 - 10 : Not available

Respiratory or skin sensitization Not available

: Not available

Germ cell mutagenicity

Carcinogenicity : This product is or contains a component that is not classifiable as to its carcinogenicity on its

IARC, ACGIH, NTP, or EPA classification.

Reproductive toxicity : Not available Specific target organ toxicity (single exposure) Not classified Not available Specific target organ toxicity (repeated Not classified exposure) Not available

Not classified Aspiration hazard

Potential Adverse human health effects and

symptoms

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous Symptoms/injuries after inhalation membranes and upper respiratory tract.

Toxic if absorbed through the skin. Causes skin burns.

Symptoms/injuries after skin contact Symptoms/injuries after eye contact : Causes eye burns. Causes severe eye burns.

Symptoms/injuries after ingestion : Harmful if swallowed.

### **SECTION 12: Ecological information**

#### **Toxicity**

AMMELIDE (RING-13C3, 99%) 100 UG/ML IN WATER/DIETHYLAMINE (80/20, V/V)		
LC50 fish 1	25 - 198 mg/l Orcorhynchus mykiss (Rainbow trout) - 96h	
EC50 Daphnia 1	56 mg/l Daphnia manga (Water flea) - 48h	
ErC50 (algae)	20 mg/l 96h	

DIETHYLAMINE UNLABELED (109-89-7)		
LC50 fish 1	25 - 198 mg/l Orcorhynchus mykiss (Rainbow trout) - 96h	
EC50 Daphnia 1	56 mg/l Daphnia manga (Water flea) - 48h	

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ccording to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations		
DIETHYLAMINE UNLABELED (109-89-7)		
ErC50 (algae)	20 mg/l 96h	
12.2. Persistence and degradability		
AMMELIDE (RING-13C3, 99%) 100 UG/ML IN	WATER/DIETHYLAMINE (80/20, V/V)	
Persistence and degradability	Not available.	
WATER UNLABELED (7732-18-5 (Unlabeled))		
Persistence and degradability	Not available.	
AMMELIDE (RING-13C3, 99%) (645-93-2 (Unia	abeled))	
Persistence and degradability	Not available.	
12.3. Bioaccumulative potential		
AMMELIDE (RING-13C3, 99%) 100 UG/ML IN	WATER/DIETHYLAMINE (80/20, V/V)	
Bioaccumulative potential	Not available.	
DIETHYLAMINE UNLABELED (109-89-7)		
Log Pow	0.58	
Bioaccumulative potential	Not available.	
WATER UNLABELED (7732-18-5 (Unlabeled))		
Log Pow	No data available	
Bioaccumulative potential	Not available.	
AMMELIDE (RING-13C3, 99%) (645-93-2 (Unia	abeled))	
Bioaccumulative potential	Not available.	
12.4. Mobility in soil		
AMMELIDE (RING-13C3, 99%) 100 UG/ML IN	WATER/DIETHYLAMINE (80/20, V/V)	
Ecology - soil	Not available.	
DIETHYLAMINE UNLABELED (109-89-7)		
Ecology - soil	Not available.	
WATER UNLABELED (7732-18-5 (Unlabeled))		
Ecology - soil	Not available.	
AMMELIDE (RING-13C3, 99%) (645-93-2 (Unia	abeled))	
Ecology - soil	Not available.	
12.5. Results of PBT and vPvB assessmen	nt	
No additional information available		
12.6. Other adverse effects		
Other adverse effects	: Not available.	

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

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

environmental control regulations.

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.

## **SECTION 14: Transport information**

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

14.1. UN number

UN-No.(DOT) : 3266 DOT NA no. UN3266

14.2. UN proper shipping name

DOT Proper Shipping Name : Corrosive liquid, basic, inorganic, n.o.s.

Department of Transportation (DOT) Hazard : 8 - Class 8 - Corrosive material 49 CFR 173.136

Classes

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Hazard labels (DOT) : 8 - Corrosive



**DOT Symbols** : G - Identifies PSN requiring a technical name

Packing group (DOT) : II - Medium Danger

: B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are DOT Special Provisions (49 CFR 172.102)

not authorized.

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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.

T11 - 6 178.274(d)(2) Normal.............. 178.275(d)(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.

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) DOT Packaging Non Bulk (49 CFR 173.xxx) : 202 DOT Packaging Bulk (49 CFR 173.xxx) : 242

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

Other information : No supplementary information available.

#### **Overland transport**

Packing group (ADR) · 11

Class (ADR) : 8 -Corrosive substances

Hazard identification number (Kemler No.) : 80 Classification code (ADR) : C5

Danger labels (ADR) : 8 - Corrosive substances



Orange plates

3266

Tunnel restriction code : E Limited quantities (ADR) 11 **EAC** : 2X APP : B Excepted quantities (ADR) : E2

#### Transport by sea

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a **DOT Vessel Stowage Location** 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.

**DOT Vessel Stowage Other** : 40 - Stow "clear of living quarters",52 - Stow "separated from" acids

MFAG-No : 154

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#### 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 : Corrosive substances

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

Other information : No supplementary information available.

#### Special precautions for user 14.5.

#### 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

AMMELIDE (RING-13C3, 99%) 100 UG/ML IN WATER/DIETHYLAMINE (80/20, V/V)	
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard
DIETHYLAMINE LINEAREL ED (109-89-7)	

DIETTT EAMINE ONEADELED (103-03-1)	LAMMAE ONLABELED (103-03-1)	
SARA Section 311/312 Hazard Classes	Fire hazard	
	Immediate (acute) health hazard	

#### 15.2. International regulations

No additional information available

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

No additional information available

#### 15.3. US State regulations

AMMELIDE (RING-13C3, 99%) 100 UG/ML IN WATER/DIETHYLAMINE (80/20, V/V)()	
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 the State of California to cause cancer, birth defects, or any other reproductive harm.

#### **DIETHYLAMINE UNLABELED (109-89-7)**

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 the 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.

#### Full text of R-. H- and EUH-phrases::

Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
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

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Eye Dam. 1 Eye Irrit. 2	Serious eye damage/eye irritation Category 1 Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Resp. Sens. 1	Respiratory sensitisation Category 1
Skin Irrit. 2	skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
R11	Highly flammable
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R21/22	Harmful in contact with skin and if swallowed
R22	Harmful if swallowed
R24	Toxic in contact with skin
R36	Irritating to eyes
R38	Irritating to skin
R41	Risk of serious damage to eyes
R42	May cause sensitization by inhalation
R43	May cause sensitization by skin contact
R52	Harmful to aquatic organisms
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
F	Highly flammable
Т	Toxic
Xi	Irritant
Xn	Harmful

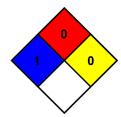
NFPA health hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



#### **HMIS III Rating**

Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard Physical : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

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

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