

## 2-PICOLINE (D7, 98%)

### Safety Data Sheet

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

Date of issue: 14/01/2011 Revision date: 21/02/2017 Supersedes: 15/10/2014 Version: 3.0

DLM-1293

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

### 1.1. Product identifier

Product form : Substance

 Substance name
 : 2-PICOLINE (D7, 98%)

 EC Index No
 : 613-036-00-2 (Unlabeled)

 EC No
 : 203-643-7 (Unlabeled)

 CAS No
 : 93951-93-0

 Product code
 : DLM-1293

 Formula
 : C5ND4CD3

 Synonyms
 : 2-Methylpyridine

### 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 (Oral) H302
Acute Tox. 3 (Dermal) H311
Acute Tox. 4 (Inhalation) H332
Eye Irrit. 2 H319
STOT SE 3 H335

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; R20/22 T; R24 Xi; R36/37

Full text of R-phrases: see section 16

### **GHS-US** classification

Flam. Liq. 3 H226
Acute Tox. 4 (Oral) H302
Acute Tox. 3 (Dermal) H311
Acute Tox. 4 (Inhalation) H332
Eye Irrit. 2A H319
STOT SE 3 H335

Full text of H statements : see section 16

21/02/2017 EN (English) 1/9

### 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

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP)





. \_ . \_ . . . .

Signal word (CLP) : Danger

Hazard statements (CLP) : H226 - Flammable liquid and vapour

H302+H332 - Harmful if swallowed or if inhaled

H311 - Toxic in contact with skin H319 - Causes serious eye irritation H335 - May cause respiratory irritation

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, spray, vapours 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

### **GHS-US** labelling

Signal word (GHS-US)

Hazard pictograms (GHS-US)





· Danger

Hazard statements (GHS-US) : H226 - Flammable liquid and vapour

H302+H332 - Harmful if swallowed or if inhaled

H311 - Toxic in contact with skin H319 - Causes serious eye irritation H335 - May cause respiratory irritation

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 lighting, electrical, ventilating equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge
P261 - Avoid breathing dust, fume, gas, mist, spray, vapours
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

P280 - Wear protective clothing, protective gloves P301+P312 - If swallowed: Call a doctor if you feel unwell P302+P352 - If on skin: Wash with plenty of water

 ${\sf P303+P361+P353} \text{ - If on skin (or hair): } \\ \textbf{Take off immediately all contaminated clothing. } \\ \textbf{Rinse}$ 

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 if you feel unwell

P330 - Rinse mouth

P337+P313 - If eye irritation persists: Get medical advice/attention

P361 - Take off immediately all contaminated clothing P363 - Wash contaminated clothing before reuse

P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water

spray to extinguish

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

21/02/2017 EN (English) 2/9

### 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

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

| Name                 | Product identifier   | %   | Classification according to Directive 67/548/EEC   |
|----------------------|--|-----|--|
| 2-PICOLINE (D7, 98%) | (CAS No) 93951-93-0<br>(EC No) 203-643-7 (Unlabeled)<br>(EC Index No) 613-036-00-2 (Unlabeled) | 100 | R10<br>Xn; R20/22<br>T; R24<br>Xi; R36/37  |
| Name                 | Product identifier   | %   | Classification according to<br>Regulation (EC) No.<br>1272/2008 [CLP]  |
| 2-PICOLINE (D7, 98%) | (CAS No) 93951-93-0<br>(EC No) 203-643-7 (Unlabeled)<br>(EC Index No) 613-036-00-2 (Unlabeled) | 100 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 4 (Inhalation), H332<br>Eye Irrit. 2, H319<br>STOT SE 3, H335 |

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

| Name                                       | Product identifier  | %   | GHS-US classification   |
|--|---------------------|-----|---|
| 2-PICOLINE (D7, 98%)<br>(Main constituent) | (CAS No) 93951-93-0 | 100 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 4 (Inhalation), H332<br>Eye Irrit. 2A, H319<br>STOT SE 3, H335 |

Full text of H-statements: see section 16

### 3.2. Mixtures

Not applicable

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Seek medical attention

immediately.

First-aid measures after inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep

victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

First-aid measures after skin contact : Wash with plenty of soap and water. Call a physician immediately.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Call a physician immediately.

mediately.

First-aid measures after ingestion : Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth

out with water. Call a poison center or a doctor if you feel unwell.

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

Symptoms/injuries after inhalation : Harmful if inhaled. May cause respiratory irritation.

Symptoms/injuries after skin contact : May be harmful in contact with skin. May cause skin irritation.

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

Symptoms/injuries after ingestion : Harmful if swallowed.

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

No additional information available

### SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use water spray to cool exposed surfaces. Alcohol resistant foam. Dry chemical. Carbon dioxide.

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

No additional information available

21/02/2017 EN (English) 3/9

### 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

### 5.3. Advice for firefighters

Firefighting instructions : Wear a self contained breathing apparatus. Evacuate area.

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

: Ensure adequate air ventilation. In order to avoid inhalation of mist/vapour, all spraying must be done wearing adequate respirator. Remove all sources of ignition. Evacuate danger area. Spark- and explosionproof appliances and lighting equipment.

### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Do not allow product to spread into the environment. Prevent entry to sewers and public waters.

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

For containment

: Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. 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 all eye and skin contact and do not breathe vapour and mist. Keep away from sources of ignition - No smoking. Take precautionary measures to prevent the formation of static

electricity.

Hygiene measures

: Always wash your hands immediately after handling this product, and once again before leaving the workplace. Wash contaminated clothing before reuse.

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

Technical measures : Store in a well-ventilated place. Keep container tightly closed. 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-PICOLINE (D7, 98%) (93951-93-0) |                       |   |
|-----------------------------------|-----------------------|---|
| USA OSHA                          | OSHA PEL (TWA) (ppm)  | 2 USA. Workplace Environmental Exposure Levels (WEEL); Remarks:Skin       |
| USA OSHA                          | OSHA PEL (STEL) (ppm) | 5 ppm USA. Workplace Environmental Exposure<br>Levels (WEEL); Value: Skin |

### 8.2. Exposure controls

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









Materials for protective clothing Hand protection

: Wear suitable protective clothing and gloves.: Wear suitable protective clothing and gloves.

Eye protection
Skin and body protection

Chemical goggles or safety glasses.Wear suitable protective clothing.

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 : 100.17 g/mol (Labeled)

21/02/2017 EN (English) 4/9

### 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

Colour : Light yellow.
Odour : Unpleasant.
Odour threshold : No data available

pH : 8.5 at 100 g/l at 20 °C (68 °F)

Relative evaporation rate (butylacetate=1) : No data available Melting point : -70 °C (- 94 °F) - lit Freezing point : No data available

Boiling point :  $128 - 129 \,^{\circ}\text{C} \, (262 - 264 \,^{\circ}\text{F}) - \text{lit.}$  Flash point :  $29 \,^{\circ}\text{C} \, (84 \,^{\circ}\text{F}) - \text{closed cup}$ 

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available

Vapour pressure : 14.9 hPa (11.2 mmHg) at 25 °C (77 °F);13 hPa (10 mmHg) at 24.4 °C (75.9 °F)

Relative vapour density at 20 °C : 3.22 - (Air = 1.0)Relative density : No data available

Density : 0.943 g/cm³ at 25 °C (77 °F)
Solubility : Water: Completely miscible

Log Pow : 1.11

Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : 1.4 - 8.6 % (V)

### 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

Heat, flames and sparks.

### 10.5. Incompatible materials

Oxidizing agent.

### 10.6. Hazardous decomposition products

Nitrogen oxides. Carbon oxides (CO, CO2).

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Dermal: Toxic in contact with skin. Inhalation: Harmful if inhaled.

| 2-PICOLINE (D7, 98%) (93951-93-0) |                          |
|-----------------------------------|--------------------------|
| LD50 oral rat                     | 790 mg/kg                |
| LD50 dermal rabbit                | 387 mg/kg                |
| ATE CLP (oral)                    | 790.000 mg/kg bodyweight |
| ATE CLP (dermal)                  | 387.000 mg/kg bodyweight |
| ATE CLP (gases)                   | 4500.000 ppmv/4h         |
| ATE CLP (vapours)                 | 11.000 mg/l/4h           |
| ATE CLP (dust,mist)               | 1.500 mg/l/4h            |

Skin corrosion/irritation : Not classified

Skin - rabbit - Open irritation test pH: 8.5 at 100 g/l at 20 °C (68 °F)

21/02/2017 EN (English) 5/9

### 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

Serious eye damage/irritation : Causes serious eye irritation.

No data available

pH: 8.5 at 100 g/l at 20 °C (68 °F)

Respiratory or skin sensitisation : Not available

> No data available Not available

Germ cell mutagenicity Carcinogenicity : Not classified Reproductive toxicity : Not available

STOT-single exposure : May cause respiratory irritation.

May cause respiratory irritation.

STOT-repeated exposure : Not classified

No data available

Aspiration hazard : Not classified

Potential adverse human health effects and

Symptoms/injuries after inhalation

symptoms

Liver injury may occur. Kidney injury may occur. Cough. Shortness of breath. Headache. Nausea. Vomiting. Gastrointestinal disturbance. Stomach - Irregularities - Based on Human Evidence. 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.

: Harmful if inhaled. May cause respiratory irritation.

Symptoms/injuries after skin contact : May be harmful in contact with skin. May cause skin irritation.

1.11

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

Symptoms/injuries after ingestion : Harmful if swallowed.

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

### **Toxicity**

| 2-PICOLINE (D7, 98%) (93951-93-0) |  |
|-----------------------------------|--|
| LC50 fish 1                       | 897 mg/l Pimephales promelas (fathead minnow) - 96 h |

#### 12.2. Persistence and degradability

| l | 2-PICOLINE (D7, 98%) (93951-93-0) |
|---|-----------------------------------|
|   |                                   |

Persistence and degradability Not available.

#### 12.3. **Bioaccumulative potential**

| 2-PICOLINE (D7, 98%) (93951-93-0) |
|-----------------------------------|
| Log Pow                           |

Bioaccumulative potential Not available.

#### 12.4. Mobility in soil

| 2-PICOLINE | (D7, 98%) | (93951-93-0) |
|------------|-----------|--------------|
|            |           |              |

Ecology - soil Not available.

### Results of PBT and vPvB assessment

No additional information available

#### 126 Other adverse effects

Other adverse effects : Not available.

### **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.

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

professional waste disposal service to dispose of this material.

Ecology - waste materials : Dispose of as unused product.

### **SECTION 14: Transport information**

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

### **UN** number

UN-No.(DOT) : 2313 DOT NA no. UN2313

21/02/2017 EN (English) 6/9

### 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

### 14.2. UN proper shipping name

Proper Shipping Name (DOT) : Picolines

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).

T4 - 2.65 178.274(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
DOT RQ : 5000 lbs
Marine pollutant : No

### 14.3. Additional information

Emergency Response Guide (ERG) Number : 129

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 :



Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) 5I
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.

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

MFAG-No : 129

21/02/2017 EN (English) 7/9

### 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

### 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)

Civil Aeronautics Law : Flammable liquids

### 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

| 2-PICOLINE (D7, 98%) (93951-93-0)                  |   |
|--|---|
| SARA Section 302 Threshold Planning Quantity (TPQ) | SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. |
| SARA Section 311/312 Hazard Classes                | Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard                                       |
| SARA Section 313 - Emission Reporting              | Subject to reporting requirements of United States SARA Section 313   |

### 15.2. International regulations

#### CANADA

No additional information available

### 15.2.1. National regulations

### 2-PICOLINE (D7, 98%) (93951-93-0)

Listed on the Canadian NDSL (Non-Domestic Substances List)

### 15.3. US State regulations

| 2-PICOLINE (D7, 98%)(93951-93-0)                                 |  |
|--|--|
| 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 Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) 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-statements:

| ٠. | on or it, it and bott diatomories. |  |  |
|----|------------------------------------|--|--|
|    | Acute Tox. 3 (Dermal)              | Acute toxicity (dermal), Category 3  |  |
|    | Acute Tox. 4 (Inhalation)          | Acute toxicity (inhal.), Category 4  |  |
|    | Acute Tox. 4 (Oral)                | Acute toxicity (oral), Category 4  |  |
|    | Eye Irrit. 2                       | Serious eye damage/eye irritation, Category 2  |  |
|    | Flam. Liq. 3                       | Flammable liquids, Category 3  |  |
|    | STOT SE 3                          | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |  |

21/02/2017 EN (English) 8/9

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| H226   | Flammable liquid and vapour               |
|--------|---|
| H302   | Harmful if swallowed                      |
| H311   | Toxic in contact with skin                |
| H319   | Causes serious eye irritation             |
| H332   | Harmful if inhaled                        |
| H335   | May cause respiratory irritation          |
| R10    | Flammable                                 |
| R20/22 | Harmful by inhalation and if swallowed    |
| R24    | Toxic in contact with skin                |
| R36/37 | Irritating to eyes and respiratory system |
| T      | Toxic                                     |
| Xi     | Irritant                                  |
| Xn     | Harmful                                   |

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause

temporary incapacitation or residual injury.

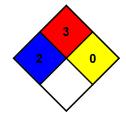
NFPA fire hazard 3 - Liquids and solids (including finely divided suspended

solids) that can be ignited under almost all ambient

temperature conditions.

NFPA reactivity : 0 - Material that in themselves are normally stable, even

under fire conditions.



### **HMIS III Rating**

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard Physical : 0 Minimal Hazard

### CIL Multi-Solvent Mixture SDS

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

21/02/2017 EN (English) 9/9