

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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PCB-183-CS

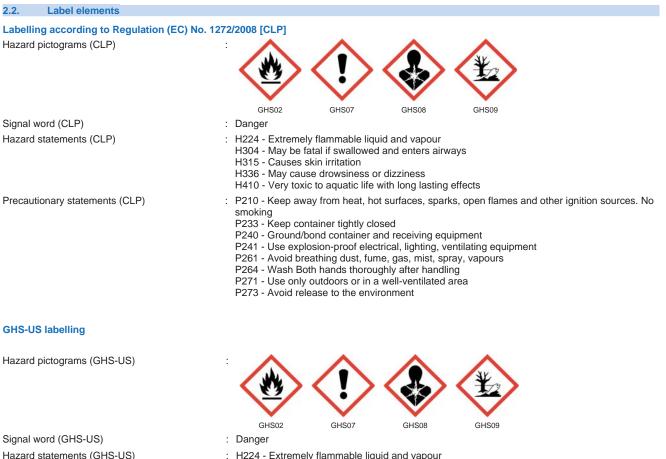
| SECTION 1: Identification of the sub | ostance/mixture and of the company/undertaking |
|--|--|
| 1.1. Product identifier | |
| Product form | : Mixture |
| Product name. | : 2,2',3,4,4',5',6-HEPTACB 100 UG/ML IN ISOOCTANE UNLABELED CERTIFIED STANDARD |
| Product code | : PCB-183-CS |
| 1.2. Relevant identified uses of the subs | stance or mixture and uses advised against |
| 1.2.1. Relevant identified uses | |
| Industrial/Professional use spec | : For professional use only. |
| 1.2.2. Uses advised against | |
| No additional information available | |
| 1.3. Details of the supplier of the safety | data sheet |
| Cambridge Isotope Laboratories, Inc. | |
| 50 Frontage Road | |
| Andover, MA 01810 USA | |
| USA: 1-800-322-1174 Int: 1-978-749-8000 | |
| cilsales@isotope.com www.isotope.com | |
| Emergency telephone number | |
| Emergency numbers: | |
| Chemtrec: 1-800-424-9300 (24 hours) International: 1-202-483-7616 (24 hours) | |
| SECTION 2: Hazards identification | |
| 2.1. Classification of the substance or n | nixture |
| Classification according to Regulation (EC) | No. 1272/2008 [CLP] |
| Flam. Liq. 1 | H224 |
| Skin Irrit. 2 | H315 |
| STOT SE 3 | H336 |
| Asp. Tox. 1 | H304 |
| Aquatic Acute 1 | H400 |
| Aquatic Chronic 1 | H410 |
| Full text of H-phrases: see section 16 | |
| Classification according to Directive 67/548/8 F; R11 Xn; R65 Xi; R38 N; R50/53 R67 Full text of R-phrases: see section 16 | EEC or 1999/45/EC |
| | |
| GHS-US classification | |
| Flam. Liq. 1 Skin Irrit. 2 STOT SE 3 Asp. Tox. 1 | H224 H315 H336 H304 |
| Aquatic Acute 1 Aquatic Chronic 1 | H400 H410 |

Adverse physicochemical, human health and environmental effects

Liver, Kidney.

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- : H224 Extremely flammable liquid and vapour
 - H304 May be fatal if swallowed and enters airways
 - H315 Causes skin irritation
 - H336 May cause drowsiness or dizziness
 - H400 Very toxic to aquatic life
 - H410 Very toxic to aquatic life with long lasting effects
- 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, spray, vapours
 - P264 Wash Both hands thoroughly after handling
 - P271 Use only outdoors or in a well-ventilated area
 - P273 Avoid release to the environment
 - P280 Wear protective clothing, protective gloves
 - P301+P310 IF SWALLOWED: immediately call a POISON CENTER or doctor/physician
 - P302+P352 IF ON SKIN: Wash with plenty of soap and water

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing

- P312 Call a POISON CENTER/doctor/physician if you feel unwell
- P321 Specific treatment (see Hazard pictograms (CLP) on this label)
- P331 If swallowed, do NOT induce vomiting
- P332+P313 If skin irritation occurs: Get medical advice/attention
- P362 Take off contaminated clothing and wash before reuse
- P370+P378 In case of fire: Use Alcohol resistant foam, Carbon dioxide., Dry chemical, Water spray for extinction
- P391 Collect spillage
- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P403+P235 Store in a well-ventilated place. Keep cool

EN (English)

Precautionary statements (GHS-US)

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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. Substances

Not applicable

3.2. Mixture

| 3.2. Wixture | | | |
|------------------------------------|---|---------|---|
| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
| ISOOCTANE UNLABELED | (CAS No)540-84-1 (EC no)208-759-1 (EC index no)601-009-00-8 | 99.9855 | F; R11 Xn; R65 Xi; R38 N; R50/53 R67 |
| 2,2',3,4,4',5',6-HEPTACB UNLABELED | (CAS No)52663-69-1 (EC index no)602-039-00-4 | 0.0145 | R33 |
| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| ISOOCTANE UNLABELED | (CAS No)540-84-1 (EC no)208-759-1 (EC index no)601-009-00-8 | 99.9855 | Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 2,2',3,4,4',5',6-HEPTACB UNLABELED | (CAS No)52663-69-1 (EC index no)602-039-00-4 | 0.0145 | STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Name | Product identifier | % | GHS-US classification |
| ISOOCTANE UNLABELED | (CAS No)540-84-1 | 99.9855 | Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

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

| SECTION 4: First aid measures | |
|---|--|
| 4.1. Description of first aid measures | |
| First-aid measures general | : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. |
| First-aid measures after inhalation | : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention. If skin irritation occurs: Wash with plenty of soap and water. Specific treatment (see Hazard pictograms (CLP) on this label). |
| First-aid measures after eye contact | : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. |
| 4.2. Most important symptoms and effect | ts, both acute and delayed |
| Symptoms/injuries after inhalation | : May cause drowsiness or dizziness. |
| Symptoms/injuries after skin contact | : Causes skin irritation. |
| Symptoms/injuries after eye contact | : Causes eye irritation. |
| Symptoms/injuries after ingestion | : May be fatal if swallowed and enters airways. |
| 4.3. Indication of any immediate medica | 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. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |
| 5.2. Special hazards arising from the s | ubstance or mixture |
| Fire hazard | : Extremely flammable liquid and vapour. |
| Explosion hazard | : May form flammable/explosive vapour-air mixture. |
| 5.3. Advice for firefighters | |
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| SECTION 6: Accidental release me | asures |
| 6.1. Personal precautions, protective e | 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 | : Evacuate unnecessary personnel. |
| | |
| 6.1.2. For emergency responders | . Avoid broothing duct mist or annou |
| Protective equipment | : Avoid breathing dust, mist or spray. : Ventilate area. |
| Emergency procedures | : Ventilate area. |
| 6.2. Environmental precautions | |
| Prevent further leakage or spillage if safe to do | so. Do not let product enter drains. Discharge into the environment must be avoided. |
| 6.3. Methods and material for containr | nent and cleaning up |
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store aways from other materials. |
| 6.4. Reference to other sections | |
| See Heading 8. Exposure controls and person | al protection. |
| SECTION 7: Handling and storage | |
| 7.1. Precautions for safe handling | |
| Additional hazards when processed | : Handle empty containers with care because residual vapours are flammable. |
| Precautions for safe handling | : Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Take precautionary measures against static discharge. Use only non sparking tools. Avoid breathing dust, mist or spray. Use only outdoors or in a well-ventilated area. |
| Hygiene measures | : Wash Both hands thoroughly after handling. |
| 7.2. Conditions for safe storage, include | ding any incompatibilities |
| Technical measures | : Ground/bond container and receiving equipment. Use explosion-proof electrical equipment. |
| Storage conditions | : Store at room temperature away from light and moisture. |
| Incompatible products | : Strong bases. strong acids. |
| Incompatible materials | : Sources of ignition. Direct sunlight. Heat sources. |
| 7.3. Specific end use(s) | |
| No additional information available | |
| SECTION 8: Exposure controls/per | constantion |

| SECTION 8: | Exposure control | ls/personal pro | tection |
|------------|------------------|-----------------|---------|
| | | | |

8.1. **Control parameters**

No additional information available

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| 8.2. Exposure controls Personal protective equipment | : Gloves Pro | tective clothing | Protective dead | les. Self-contained breathing apparatus |
|---|---------------------------|------------------|---------------------|---|
| Personal protective equipment | . Gioves. Pro | lective clothing | J. Protective gogg | les. Self-contained breathing apparatus. |
| | | R | | 27 |
| Hand protection | : Wear suitab | le protective cl | lothing and gloves | S. |
| Eye protection | : Wear safety | glasses with s | side shields (or go | ggles) and a face shield. |
| Skin and body protection | | le protective c | | |
| Respiratory protection | : Where expo recommend | | nhalation may occ | cur from use, respiratory protection equipment is |
| Other information | : When using | , do not eat, dr | rink or smoke. | |
| SECTION 9: Physical and chemica | oroperties | | | |
| 9.1. Information on basic physical an | hemical prope | rties | | |
| The properties listed below are for the solvent, the main con | | | | |
| Physical state | : Liquid | | | |
| Appearance | : Liquid. | | | |
| Molecular mass | : 114.23 | | | |
| Colour | : Colourless. | | | |
| Odour | : characterist | | | |
| Odour threshold | : No data ava | | | |
| рН | : No data ava | | | |
| Relative evaporation rate (butylacetate=1) | : No data ava | | | |
| Melting point | : -107 °C (- 1 | 61 °F) | | |
| Freezing point | : No data ava | | | |
| Boiling point | | 208 - 210 °F) | | |
| Flash point | | F) - closed cup |) | |
| Self ignition temperature | : 396 °C (745 | °F) | | |
| Decomposition temperature | : No data ava | ilable | | |
| Flammability (solid, gas) | : Extremely fl | ammable liquid | d and vapour | |
| Vapour pressure | : 55 hPa (41 | mmHg) at 21 ° | C (70 °F) | |
| Relative vapour density at 20 °C | : 3.94 - (Air = | 1.0) | | |
| Relative density | : No data ava | ilable | | |
| Solubility | : Water: 0 % | | | |
| Log Pow | : No data ava | ilable | | |
| Log Kow | : No data ava | ilable | | |
| Viscosity, kinematic | : No data ava | ilable | | |
| Viscosity, dynamic | : No data ava | ilable | | |
| Explosive properties | : No data ava | ilable | | |
| Oxidising properties | : No data ava | ilable | | |
| Explosive limits | : 1 - 6 % (V) | | | |
| 9.2. Other information | | | | |
| No additional information available | | | | |
| SECTION 10: Stability and reactiv | | | | |
| 10.1. Reactivity | | | | |
| No additional information available | | | | |
| | | | | |

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions Not established.

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Sparks. Heat. Overheating. Open flame.

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10.5. Incompatible materials

strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

| SECTION 11: Toxicological informat | ion |
|---|--|
| 11.1. Information on toxicological effects | |
| Acute toxicity | : Not classified |
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | Based on available data, the classification criteria are not met : Not classified |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met : Not classified |
| Carcinogenicity | Based on available data, the classification criteria are not metNot classifiedBased on available data, the classification criteria are not met |
| Reproductive toxicity | : Not classified Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : May cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated exposure) | : Not classified Based on available data, the classification criteria are not met |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |
| Potential Adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/injuries after inhalation | : May cause drowsiness or dizziness. |
| Symptoms/injuries after skin contact | : Causes skin irritation. |
| Symptoms/injuries after eye contact | : Causes eye irritation. |
| Symptoms/injuries after ingestion | : May be fatal if swallowed and enters airways. |
| | |

| SECTION 12: Ecological information | |
|------------------------------------|---|
| 12.1. Toxicity | |
| Ecology - water | : Very toxic to aquatic life with long lasting effects. |

| 12.2. Persistence and degradabil | ity | |
|-----------------------------------|---|------|
| 2,2',3,4,4',5',6-HEPTACB 100 UG/M | IN ISOOCTANE UNLABELED CERTIFIED STANDARD | |
| Persistence and degradability | May cause long-term adverse effects in the environment. | |
| ISOOCTANE UNLABELED (540-84-7 |) | |
| Persistence and degradability | Not available. | |
| 2,2',3,4,4',5',6-HEPTACB UNLABEL | ED (52663-69-1) | |
| Persistence and degradability | Not available. | |
| 12.3. Bioaccumulative potential | | |
| 2,2',3,4,4',5',6-HEPTACB 100 UG/M | IN ISOOCTANE UNLABELED CERTIFIED STANDARD | |
| Bioaccumulative potential | Not established. | |
| ISOOCTANE UNLABELED (540-84-7 |) | |
| Bioaccumulative potential | Not available. | |
| 2,2',3,4,4',5',6-HEPTACB UNLABEL | ED (52663-69-1) | |
| Bioaccumulative potential | Not available. | |
| 12.4. Mobility in soil | | |
| ISOOCTANE UNLABELED (540-84- |) | |
| Ecology - soil | Not available. | |
| 08/09/2014 | EN (Enalish) | 6/10 |

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| 2,2',3,4,4',5',6-HEPTACB UNLABELED (5266 | 33-69-1) |
|--|--|
| Ecology - soil | Not available. |
| 12.5. Results of PBT and vPvB assessme | ent |
| No additional information available | |
| 12.6. Other adverse effects | |
| Other information | : Avoid release to the environment. |
| | |
| SECTION 13: Disposal consideration | ns |
| 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. Dispose of contents/container to Comply with applicable regulations. |
| Additional information | : Handle empty containers with care because residual vapours are flammable. |
| Ecology - waste materials | : Avoid release to the environment. Hazardous waste due to toxicity. |
| SECTION 14: Transport information | |
| In accordance with ADR / RID / ADNR / IMDG / | |
| 14.1. UN number | |
| UN-No.(DOT) | : 1262 |
| DOT NA no. | UN1262 |
| | |
| 14.2. UN proper shipping name | - Onterer |
| DOT Proper Shipping Name | : Octanes |
| Department of Transportation (DOT) Hazard Classes | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 |
| Hazard labels (DOT) | : 3 - Flammable liquid |
| Packing group (DOT) | : II - Medium Danger |
| DOT Special Provisions (49 CFR 172.102) | 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. T4 - 2.65 178.274(d)(2) Normal |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 150 |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 202 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 242 |
| | |
| 14.3. Additional information | |
| | No supplementary information systephe |

Other information

: No supplementary information available.

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| Overland transport | |
|--|---|
| Packing group (ADR) | : 11 |
| Class (ADR) | : 3 - Flammable liquids |
| Hazard identification number (Kemler No.) | |
| Classification code (ADR) | : 55 : F1 |
| Danger labels (ADR) | : 3 - Flammable liquids |
| | |
| Orange plates | 33 1262 |
| Tunnel restriction code | : D/E |
| Limited quantities (ADR) | 1L |
| EAC code | : 3YE |
| Excepted quantities (ADR) | : E2 |
| 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 | : 128 |
| Air transport DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 5L |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : 60 L |
| Civil Aeronautics Law | : Flammable liquids(Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations) |
| 14.4. Environmental hazards | |
| Dangerous for the environment | |
| Other information | : No supplementary information available. |
| 14.5. Special precautions for user | |
| · · | x II of MAPPOL 73/78 and the IRC Code |
| Not applicable | x II of MARPOL 73/78 and the IBC Code |
| SECTION 15: Regulatory information | |
| 15.1. US Federal regulations | |
| 2,2',3,4,4',5',6-HEPTACB 100 UG/ML IN ISOC | OCTANE UNLABELED CERTIFIED STANDARD |
| SARA Section 311/312 Hazard Classes | Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard |
| ISOOCTANE UNLABELED (540-84-1) | |
| | |

SARA Section 311/312 Hazard Classes

Fire hazard

Immediate (acute) health hazard Delayed (chronic) health hazard

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15.2. International regulations

CANADA

45 0 110 04

2,2',3,4,4',5',6-HEPTACB 100 UG/ML IN ISOOCTANE UNLABELED CERTIFIED STANDARD

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

15.2.1. National regulations

No additional information available

| 15.3. US State regulations | | |
|--|---|--|
| 2,2',3,4,4',5',6-HEPTACB 100 UG/ML IN ISOOCTANE UNLABELED CERTIFIED STANDARD() | | |
| State or local regulations | U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. | |

ISOOCTANE UNLABELED (540-84-1)

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

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

| SECTION 16: Other in | formation |
|----------------------|-----------|
|----------------------|-----------|

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

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

| Aquatic Acute 1 | Hazardous to the aquatic environment — AcuteHazard, Category 1 |
|-------------------|--|
| Aquatic Chronic 1 | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Flam. Liq. 1 | Flammable liquids, Category 1 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Narcosis |
| H224 | Extremely flammable liquid and vapour |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H336 | May cause drowsiness or dizziness |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| R11 | Highly flammable |
| R33 | Danger of cumulative effects |
| R38 | Irritating to skin |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R65 | Harmful: may cause lung damage if swallowed |
| R67 | Vapours may cause drowsiness and dizziness |
| F | Highly flammable |
| N | Dangerous for the environment |
| Xi | Irritant |
| Xn | Harmful |

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| NFPA health hazard | : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. |
|--------------------|--|
| NFPA fire hazard | : 3 - Liquids and solids that can be ignited under almost all ambient conditions. |
| NFPA reactivity | : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. |
| HMIS III Rating | |
| Health | : 2 Moderate Hazard - Temporary or minor injury may occur |
| Flammability | : 3 Serious Hazard |
| Physical | : 0 Minimal Hazard |

CIL Mixture SDS

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