

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: 15/10/2014

Revision date:

Version: 1.0

ECN-5260

| SECTION 1: Identification of the | substance/mixture and of the company/undertaking | |
|---|--|--|
| 1.1. Product identifier | | |
| Product form | : Mixtures | |
| Product name. | : 1,2,3,4,5,7-HEXACN (PCN-64) (13C10, 99%) 10 UG/ML IN ISOOCTANE | |
| Product code | : ECN-5260 | |
| | substance or mixture and uses advised against | |
| | substance of 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 sa | ifety data sheet | |
| Cambridge Isotope Laboratories, Inc. | | |
| 50 Frontage Road | | |
| Andover, MA 01810 | | |
| USA | | |
| USA: 1-800-322-1174 Int: 1-978-749-800 cilsales@isotope.com www.isotope.com | JU | |
| Emergency telephone number | | |
| Emergency numbers: | | |
| Chemtrec: 1-800-424-9300 (24 hours) International: 1-202-483-7616 (24 hours) | | |
| SECTION 2: Hazards identification | bn . | |
| 2.1. Classification of the substance | or mixture | |
| Classification according to Regulation (E | 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/EEC or 1999/45/EC | |
| F; R11 | | |
| Xn; R65 | | |
| Xi; R38 | | |
| N; R50/53 R67 | | |
| Full text of R-phrases: see section 16 | | |
| · · · · · · · · · · · · · · · · · · · | | |
| Classification (GHS-US) | | |
| Flam. Liq. 1 | H224 | |
| Skin Irrit. 2 | H315 | |
| STOT SE 3 Asp. Tox. 1 | H336 H304 | |
| Aquatic Acute 1 | H400 | |
| Aquatic Chronic 1 | H410 | |

H410

Adverse physicochemical, human health and environmental effects

Liver, Kidney.

Aquatic Chronic 1

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| 2.2. Label elements | |
|--|---|
| Labeling according to Regulation (EC) No | . 1272/2008 [CLP] |
| Hazard pictograms (CLP) | |
| Signal word (CLP) | GHS02 GHS07 GHS08 GHS09 : Danger |
| Hazard statements (CLP) | H224 - Extremely flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H336 - May cause drowsiness or dizziness H410 - Very toxic to aquatic life with long lasting effects |
| 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, vapors P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P273 - Avoid release to the environment |
| GHS-US labeling | |
| Hazard pictograms (GHS-US) | |
| Signal word (GHS-US) | GHS02 GHS07 GHS08 GHS09 : Danger |
| Hazard statements (GHS-US) | ballgel H224 - Extremely flammable liquid and vapor 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 |
| Precautionary statements (GHS-US) | P210 - Keep away from heat, hot surfaces, sparks, open flames 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 vapors, spray, mist, gas, fume, dust 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., Wate 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 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. Substances

Not applicable

| 3.2. Mixtures | |
|---------------|--|
|---------------|--|

| 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 | 99.9986 | F; R11 |
| 1,2,3,4,5,7-HEXACN (13C10, 99%) | (CAS No)67922-27-4 (Unlabeled) | 0.0014 | Xn; R22 Xi; R41 Xi; R38 N; R50/53 R48 |
| 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 | 99.9986 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 1,2,3,4,5,7-HEXACN (13C10, 99%) | (CAS No)67922-27-4 (Unlabeled) | 0.0014 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Name | Product identifier | % | Classification (GHS-US) |
| ISOOCTANE UNLABELED | (CAS No)540-84-1 | 99.9986 | 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. If skin irritation occurs: Wash with plenty of soap and water. Get medical advice/attention. 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 | : Immediately call a POISON CENTER or doctor/physician. |
| 4.2. Most important symptoms and effe | cts, 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 | I 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 su | hstance or mixture |
| Fire hazard | : Extremely 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 mea | sures |
| 6.1. Personal precautions, protective eq | uipment 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 No additional information available | |
| 6.1.2. For emergency responders | |
| Protective equipment | : Avoid breathing dust, mist or spray. |
| 6.2. Environmental precautions | |
| Avoid release to the environment. | |
| 6.3. Methods and material for containme | ent and cleaning up |
| No additional information available | |
| 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. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dust, mist or spray. |
| Hygiene measures | : Wash Both hands thoroughly after handling. |
| 7.2. Conditions for safe storage, includi | ng 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 materials | : Heat sources. |
| 7.3. Specific end use(s) | |
| No additional information available | |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No additional information available

8.2. Exposure controls

Personal protective equipment

: Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



- : Wear suitable protective clothing and gloves.
 - : Wear safety glasses with side shields (or goggles) and a face shield.
 - : Wear suitable protective clothing.
 - : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection.

Hand protection

Skin and body protection

Respiratory protection

Eye protection

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|--|--|--|
| SECTION 9: Physical and chemical | properties | |
| 9.1. Information on basic physical and chemical properties | | |
| The properties listed below are for the solvent, the main compor | | |
| Physical state | : Liquid | |
| Appearance | : Liquid. | |
| Molecular mass | : 114.23 | |
| Color | : No data available. | |
| Odor | : No data available | |
| Odor threshold | : No data available | |
| рН | : No data available | |
| Relative evaporation rate (butyl acetate=1) | : No data available | |
| Melting point | : -107 °C (- 161 °F) | |
| Freezing point | : No data available | |
| Boiling point | : 99 °C (210 °F) | |
| Flash point | : -12 °C (10 °F) - closed cup | |
| Self ignition temperature | : 396 °C (745 °F) | |
| Decomposition temperature | : No data available | |
| | | |
| Flammability (solid, gas) | : Extremely flammable liquid and vapor | |
| Vapor pressure | : 55 hPa (41 mmHg) at 21 °C (70 °F) | |
| Relative vapor density at 20 °C | : 3.94 - (Air = 1.0) | |
| Relative density | : No data available | |
| Solubility | : Water: 0 % | |
| Log Pow | : No data available | |
| 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 | : 1 - 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 | | |
| See storage and expiration date on CoA. | | |
| 10.3. Possibility of hazardous reactions | | |
| No additional information available | | |
| 10.4. Conditions to avoid | | |
| Sparks. Heat. Direct sunlight. Overheating. Ope | n flame. | |
| 10.5. Incompatible materials | | |
| No additional information available | | |
| 10.6. Hazardous decomposition products | | |
| May release flammable gases. | | |
| SECTION 11: Toxicological information | ion | |
| 11.1. Information on toxicological effects | | |
| Acute toxicity | : Not classified | |
| 1,2,3,4,5,7-HEXACN (13C10, 99%) (67922-27 | -4 (Unlabeled)) | |
| ATE (oral) | 500.000 mg/kg body weight | |
| Skin corrosion/irritation | : Causes skin irritation. | |
| Serious eye damage/irritation | : Not classified | |
| | | |
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| Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity | Not classified Not classified Not classified |
|---|---|
| Reproductive toxicity Specific target organ toxicity (single exposure) | Not classifiedMay cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : May be fatal if swallowed and enters airways. |
| Symptoms/injuries after inhalation Symptoms/injuries after skin contact Symptoms/injuries after eve contact | May cause drowsiness or dizziness. Causes skin irritation. Causes eye irritation. |
| Symptoms/injuries after ingestion | : May be fatal if swallowed and enters airways. |

| SECTION 12: Ecological informati | on |
|--|--|
| 12.1. Toxicity | . Manufacto da anna da lifa utilit hann ha dina affanta |
| Ecology - water | : Very toxic to aquatic life with long lasting effects. |
| 12.2. Persistence and degradability | |
| 1,2,3,4,5,7-HEXACN (PCN-64) (13C10, 999 | %) 10 LIG/ML IN ISOOCTANE |
| Persistence and degradability | May cause long-term adverse effects in the environment. |
| ISOOCTANE UNLABELED (540-84-1) | |
| Persistence and degradability | Not available. |
| 1,2,3,4,5,7-HEXACN (13C10, 99%) (67922- | -27-4 (Unlabeled)) |
| Persistence and degradability | Not available. |
| 12.3. Bioaccumulative potential | |
| | |
| ISOOCTANE UNLABELED (540-84-1) Bioaccumulative potential | Not available. |
| | |
| 1,2,3,4,5,7-HEXACN (13C10, 99%) (67922- Bioaccumulative potential | -27-4 (Unlabeled)) Not available. |
| • | INOL AVAIIADIE. |
| 12.4. Mobility in soil | |
| ISOOCTANE UNLABELED (540-84-1) | |
| Ecology - soil | Not available. |
| 1,2,3,4,5,7-HEXACN (13C10, 99%) (67922- | |
| Ecology - soil | Not available. |
| 12.5. Results of PBT and vPvB assess | ment |
| No additional information available | |
| 12.6. Other adverse effects | |
| No additional information available | |
| SECTION 13: Disposal considerat | ions |
| 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 of contents/container to Comply with applicable regulations. |
| Additional information | : Handle empty containers with care because residual vapors are flammable. |
| Ecology - waste materials | : Hazardous waste due to toxicity. |
| SECTION 14: Transport information | bn |
| In accordance with ADR / RID / ADNR / IMDO | |
| 14.1. UN number | |
| UN-No.(DOT) | : 1262 |
| | |

DOT NA no.

28/10/2014

EN (English US)

UN1262

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| 14.2. UN proper shipping name | |
|--|---|
| DOT Proper Shipping Name | : Octanes |
| Department of Transportation (DOT) Hazard | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 |
| Classes | |
| Hazard labels (DOT) | : 3 - Flammable liquid |
| | |
| | |
| | |
| | 3 |
| 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 |
| | 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) | : 202 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 242 |
| | |
| 14.3. Additional information | |
| Other information | : No supplementary information available. |
| | |
| Overland transport | |
| Packing group (ADR) | : 11 |
| Class (ADR) | : 3 - Flammable liquid |
| Hazard identification number (Kemler No.) | : 33 |
| Classification code (ADR) | : F1 |
| Danger labels (ADR) | : 3 - Flammable liquids |
| | |
| | |
| | |
| | 3 |
| Orange plates | |
| | 33 |
| | 12(2 |
| | 1262 |
| Tunnel restriction code | : D/E |
| Limited quantities (ADR) | 1L |
| EAC | : 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 |
| 5 | 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 | · 60 I |
| CFR 175.75) | |
| Civil Aeronautics Law | : Flammable liquids |
| | |
| | |

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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 | |
| 1,2,3,4,5,7-HEXACN (PCN-64) (13C10, 99%) 1 | UG/ML IN ISOOCTANE |
| 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 |

15.2. International regulations

CANADA

| 1,2,3,4,5,7-HEXACN (PCN-64) (13C10, 99%) 10 UG/ML IN ISOOCTANE |
|--|
| Listed on the Canadian DSL (Domestic Substances List) inventory. |
| |

15.2.1. National regulations

No additional information available

| 15.3. US State regulations | | |
|--|---|--|
| 1,2,3,4,5,7-HEXACN (PCN-64) (13C10, 99%) 10 UG/ML IN ISOOCTANE() | | |
| 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 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.

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

| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
|---------------------|---|
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Flam. Liq. 1 | Flammable liquids Category 1 |
| Flam. Liq. 2 | Flammable liquids Category 2 |
| 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 |
| H224 | Extremely flammable liquid and vapor |
| H225 | Highly flammable liquid and vapor |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation |
| H318 | Causes serious eye damage |
| 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 |
| R22 | Harmful if swallowed |
| R38 | Irritating to skin |
| R41 | Risk of serious damage to eyes |
| R48 | Danger of serious damage to health by prolonged exposure |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effect in the aquatic environment |
| R65 | Harmful: may cause lung damage if swallowed |
| R67 | Vapors may cause drowsiness and dizziness |
| F | Highly flammable |
| Ν | Dangerous for the environment |
| Xi | Irritant |
| Xn | Harmful |
| L | |

| 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