

1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) (PCN-70) UNLABELED 100 UG/ML IN NONANE

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: 30/08/2017 Revision date: 04/05/2018 Supersedes: 30/08/2017 Version: 1.1 ECN-2665

| SECTION 1: Identificati | on of the substance/mixture and of the company/undertaking |
|---|---|
| 1.1. Product identifier | |
| Product form | : Mixtures |
| Product name | : 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) (PCN-70) UNLABELED 100 UG/ML IN NONANE |
| Product code | : ECN-2665 |
| 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 spe | c : For professional use only |
| 1.2.2. Uses advised agair | st |
| No additional information avail | able |
| 1.3. Details of the supp | ier of the safety data sheet |
| Cambridge Isotope Laboratorie 50 Frontage Road Andover, MA 01810 USA | s, Inc. |
| USA: 1-800-322-1174 Int: 1- | 978-749-8000 isotope.com |
| Emergency telepho | • |
| Emergency numbers: | |
| Chemtrec: 1-800-424-9300 (2 International: 1-703-741-5970 | |
| SECTION 2: Hazards id | entification |
| 2.1. Classification of the | e substance or mixture |
| Classification according to F | egulation (EC) No. 1272/2008 [CLP] |
| Flam. Liq. 3 | H226 |
| Acute Tox. 4 (Inhalation:vapou | r) H332 |
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |
| STOT SE 3 | H336 |
| Asp. Tox. 1 | H304 |
| Full text of hazard classes and | H-statements : see section 16 |
| Classification according to E | irective 67/548/EEC [DSD] or 1999/45/EC [DPD] |
| R10 | |
| Xn; R20 Xn: R65 | |

Xn; R20 Xn; R65 Xi; R36/38 R67 Full text of R-phrases: see section 16

GHS-US classification

Full text of H statements : see section 16

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Adverse physicochemical, human health and environmental effects

Central Nervous System. Flammable liquid and vapor. May cause drowsiness or dizziness. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways.



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| P337+P313 - If eye irritation persists: Get medical advice/attention |
|--|
| P362 - Take off contaminated clothing and wash it before reuse |
| P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry |
| extinguishing powder to extinguish |
| 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 |
| P501 - Dispose of contents/container to hazardous or special waste collection point, |
| accordance with local, regional, national and/or international regulation |
| |

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable 3.2. Mixt

| 3.2. Mixtures | | | |
|--|--|--------|---|
| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
| N-NONANE UNLABELED | (CAS No) 111-84-2 (EC No) 203-913-4 | 99.986 | R10 Xn; R20 Xn; R65 Xi; R36/38 R67 |
| 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABELED | (CAS No) 17062-87-2 | 0.014 | Xn; R22 Xi; R41 Xi; R36/37 N; R51/53 |
| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| N-NONANE UNLABELED | (CAS No) 111-84-2 (EC No) 203-913-4 | 99.986 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304 |
| 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABELED | (CAS No) 17062-87-2 | 0.014 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 Aquatic Chronic 2, H411 |
| Name | Product identifier | % | GHS-US classification |
| N-NONANE UNLABELED | (CAS No) 111-84-2 | 99.986 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304 |
| 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABELED | (CAS No) 17062-87-2 | 0.014 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 Aquatic Acute 2, H401 Aquatic Chronic 2, H411 |

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

| SECTION 4: First aid measures | | |
|--|--|--|
| 4.1. Description of first aid measures | | |
| First-aid measures general | : Call a physician immediately. | |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell. Give oxygen or artificial respiration if necessary. | |
| First-aid measures after skin contact | : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention. | |

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|--|---|
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Do not induce vomiting. Call a physician immediately. |
| 4.2. Most important symptoms and e | effects, both acute and delayed |
| Symptoms/injuries | : May cause drowsiness or dizziness. |
| Symptoms/injuries after inhalation | : Harmful if inhaled. May cause respiratory irritation. |
| Symptoms/injuries after skin contact | : Causes skin irritation. May be harmful in contact with skin. |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. |
| Symptoms/injuries after ingestion | : May be fatal if swallowed and enters airways. Risk of lung edema. |
| 4.3. Indication of any immediate me | dical attention and special treatment needed |
| Treat symptomatically. | |
| SECTION 5: Firefighting measure | S . |
| 5.1. Extinguishing media | |
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. Alcohol resistant foam. |
| 5.2. Special hazards arising from the | e substance or mixture |
| Fire hazard | : Flammable liquid and vapor. |
| Explosion hazard | : May form flammable/explosive vapor-air mixture. |
| Reactivity | : vapors may form flammable mixture with air. |
| 5.3. Advice for firefighters | |
| Firefighting instructions | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| ••• | |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| SECTION 6: Accidental release m | neasures |
| 6.1. Personal precautions, protective | e equipment and emergency procedures |
| General measures | : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. |
| 6.1.1. For non-emergency personnel | |
| Emergency procedures | : Wear personal protective equipment. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes. |
| 6.1.2. For emergency responders | |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| 6.2. Environmental precautions | |
| Prevent entry to sewers and public waters. A | woid release to the environment. |
| 6.3. Methods and material for contai | nment and cleaning up |
| For containment | : Dike and contain spill. Dispose as hazardous waste. Comply with local regulations for disposal |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. |
| Other information | : Dispose of materials or solid residues at an authorized site. |
| 6.4. Reference to other sections | |
| For further information refer to section 13. | |
| SECTION 7: Handling and storag | e |
| 7.1. Precautions for safe handling | |
| Additional hazards when processed | : Avoid all contact with skin, eyes, or clothing. Keep away from sources of ignition - No smoking. Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer). Take precautionary measures against static discharges. |
| Precautions for safe handling | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes. |
| Hygiene measures | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

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| 7.2. | Conditions for safe storage, including any incompatibilities | | |
|--------------------|--|---|--|
| Technical measures | | : Store in a well-ventilated place. Keep container tightly closed. Keep dry. Ground/bond contai and receiving equipment. | |
| Storage | conditions | : Store at room temperature away from light and moisture. | |
| 7.3. | Specific end use(s) | | |
| No add | itional information available | | |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 200.00000000 ppm USA. ACGIH Threshold Limit Values (TLV) |
|------------------------------|---|---|
| Italy - Portugal - USA ACGIH | Remark (ACGIH) | CNS impair |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 1050 mg/m ³ USA. NIOSH Recommended Exposure Limits |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 200 ppm USA. NIOSH Recommended Exposure Limits |
| USA NIOSH | Remark (NIOSH) | Central Nervous System impairment |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 1050 mg/m ³ USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000 |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000 |
| USA OSHA | OSHA PEL (Ceiling) (mg/m ³) | 1050 California permissible exposure limits for chemical contaminants. |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 200 ppm California permissible exposure limits for chemical contaminants. |
| N-NONANE UNLABELED (11 | 1-84-2) | |
| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 200.00000000 ppm USA. ACGIH Threshold Limit Values (TLV) |
| Italy - Portugal - USA ACGIH | Remark (ACGIH) | CNS impair |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 1050 mg/m ³ USA. NIOSH Recommended Exposure Limits |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 200 ppm USA. NIOSH Recommended Exposure Limits |
| USA NIOSH | Remark (NIOSH) | Central Nervous System impairment |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 1050 mg/m ³ USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000 |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000 |
| USA OSHA | OSHA PEL (Ceiling) (mg/m ³) | 1050 California permissible exposure limits for chemical contaminants. |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 200 ppm California permissible exposure limits for chemical contaminants. |

8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

- : Ensure good ventilation of the work station.
- : Protective clothing. Protective goggles. Gloves. Self-contained breathing apparatus.



- Materials for protective clothing Hand protection Eye protection Skin and body protection Respiratory protection
- : Chemical goggles or face shield. Chemical goggles or safety glasses.
- : Wear suitable protective clothing, gloves and eye/face protection.

: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Approved respirator.

protective gloves.

:

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Environmental exposure controls

: Avoid release to the environment.

| Environmental exposure controls | : Avoid release to the environment. | |
|---|---|--|
| 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 component | nt of this mixture. | |
| Physical state | : Liquid | |
| Appearance | : Liquid | |
| Molecular mass | : 128.3 g/mol | |
| Color | : Colorless | |
| Odor | : No data available | |
| Odor threshold | : No data available | |
| рН | : No data available | |
| Relative evaporation rate (butyl acetate=1) | : No data available | |
| Melting point | : Not applicable | |
| Freezing point | : -53 °C (- 63 °F) - lit | |
| Boiling point | : 151 °C (304 °F) - lit | |
| Flash point | : 31 °C (87.8 °F) - closed cup | |
| Auto-ignition temperature | : 205 °C (401 °F) | |
| Decomposition temperature | : No data available | |
| Flammability (solid, gas) | : Not applicable | |
| Vapor pressure | : 5.69 hPa (4.27 mmHg) at 25 °C (77 °F) | |
| Relative vapor density at 20 °C | : No data available | |
| Relative density | : No data available | |
| Specific gravity / density | : 0.718 g/ml at 25 °C (77 °F) | |
| Solubility | : Water: 0.0002 % at 25 °C (77 °F) - slightly soluble | |
| Log Pow | : 5.65 | |
| Log Kow | : No data available | |
| Viscosity, kinematic | : <= 1.008 mm²/s at 20 °C (68 °F) | |
| Viscosity, dynamic | : No data available | |
| Explosive properties | : No data available | |
| Oxidizing properties | : No data available | |
| Explosion limits | : 0.87 - 2.9 % (V) | |
| 9.2. Other information | | |
| No additional information available | | |
| SECTION 10: Stability and reactivity | | |
| 10.1. Reactivity | | |
| Vapors may form flammable mixture with air. | | |
| 10.2. Chemical stability | | |
| See storage and expiration date on CoA. | | |
| 10.3. Possibility of hazardous reactions | | |
| No dangerous reactions known under normal conditions of use. | | |
| 10.4. Conditions to avoid | | |
| Open flame. Overheating. Direct sunlight. Heat. Sparks. | | |
| 10.5. Incompatible materials | | |
| No additional information available | | |
| 10.6. Hazardous decomposition products | | |
| Carbon oxides (CO, CO2). | | |
| SECTION 11: Toxicological information | | |
| 11.1. Information on toxicological effects | | |
| Acute toxicity : Inhalation:vapour: Harmful if inhaled. | | |
| 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) (PCN-70) UNLABELED 100 UG/ML IN NONANE | | |
| LC50 inhalation rat (mg/l) 23760 mg/m ³ male - 4 h | | |
| | · | |

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| 6) (PCN-70) UNLABELED 100 UG/ML IN NONANE |
|---|
| 3200.000 ppmV/4h |
| 11.000 mg/l/4h |
| 23.760 mg/l/4h |
| Result: Skin Irritation (Draize Test) |
| : S. Typhimurium Result: negative |
| |
| 23760 mg/m ³ male - 4 h |
| 3200.000 ppmV/4h |
| 11.000 mg/l/4h |
| 23.760 mg/l/4h |
| Result: Skin Irritation (Draize Test) |
| : S. Typhimurium Result: negative |
| 6) UNLABELED (17062-87-2) |
| 500.000 mg/kg body weight |
| : Causes skin irritation. |
| : Causes serious eye irritation. |
| : Not classified |
| : May cause drowsiness or dizziness. |
| : Not classified |
| 6) (PCN-70) UNLABELED 100 UG/ML IN NONANE |
| 100 mg/kg bodyweight/day female (OECD Test Guildeline 408) |
| |
| 100 mg/kg bodyweight/day female (OECD Test Guildeline 408) |
| : May be fatal if swallowed and enters airways. |
| : 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. |
| : Causes skin irritation. May be harmful in contact with skin. |
| |
| : Causes serious eye irritation. |
| |

| SECTION 12: Ecological information | | |
|---|--|--|
| 12.1. Toxicity | | |
| Ecology - general | The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. | |
| 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) | (PCN-70) UNLABELED 100 UG/ML IN NONANE | |
| EC50 Daphnia 1 | 0.2 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h | |
| N-NONANE UNLABELED (111-84-2) | | |
| EC50 Daphnia 1 | 0.2 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h | |
| | | |
| 12.2. Persistence and degradability | | |
| 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) | UNLABELED (17062-87-2) | |
| Persistence and degradability | Not available. | |
| 12.3. Bioaccumulative potential | | |
| 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) (PCN-70) UNLABELED 100 UG/ML IN NONANE | | |
| Log Pow | 5.65 | |
| Bioaccumulative potential | Indication of bioaccumulation. | |

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|---|--|
| N-NONANE UNLABELED (111-84-2) | |
| Log Pow | 5.65 |
| Bioaccumulative potential | Indication of bioaccumulation. |
| 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97% |) UNLABELED (17062-87-2) |
| Bioaccumulative potential | Not available. |
| 12.4. Mobility in soil | |
| 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97% |) UNLABELED (17062-87-2) |
| Ecology - soil | Not available. |
| 12.5. Results of PBT and vPvB assessmen | it in the second s |
| No additional information available | |
| 12.6. Other adverse effects | |
| Other adverse effects | : Disposal must be done according to official regulations. Very toxic to aquatic life with long |
| | lasting effects. |
| SECTION 13: Disposal consideration | e |
| 13.1. Waste treatment methods | |
| Regional legislation (waste) | : Waste materials should be disposed of under conditions which meet Federal, State, and Local |
| Regional registration (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 / AD | |
| 14.1. UN number | |
| UN-No.(DOT) | : 1920 |
| DOT NA no. | UN1920 |
| | |
| 14.2. UN proper shipping name | - Managara |
| Proper Shipping Name (DOT) | : Nonanes |
| Class (DOT) Hazard labels (DOT) | 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 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). T2 - 1.5 178.274(d)(2) Normal |
| 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 |
| Marine pollutant | : No |
| | |

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| 14.3. Additional information | |
|--|---|
| Emergency Response Guide (ERG) Number | : 128 |
| Other information | : No supplementary information available. |
| | |
| Overland transport | |
| | : 111 |
| | : 3 - Flammable liquid |
| | : 30 |
| Classification code (ADR) | : F1 |
| Hazard labels (ADR) | : 3 - Flammable liquids |
| Orange plates | · 20 |
| | 30 1920 |
| | : D/E |
| Limited quantities (ADR) | 51 |
| EAC | : 3Y |
| Excepted quantities (ADR) | : E1 |
| Transport by sea | |
| | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. |
| MFAG-No | : 128 |
| Air transport | |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 60 L |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : 220 L |
| Civil Aeronautics Law | : Flammable liquids |
| 14.4. Environmental hazards | |
| Marine pollutant | : ^ |
| | |
| Other information | IMDG only : No supplementary information available. |
| 14.5. Special precautions for user | |
| | I of MARPOL 73/78 and the IBC Code |
| Not applicable | |
| SECTION 15: Regulatory information | |

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|---|--|--|
| 15.1. US Federal regulations | | |
| 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) | (PCN-70) UNLABELED 100 UG/ML IN NONANE | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302. | |
| SARA Section 311/312 Hazard Classes | Fire hazard Immediate (acute) health hazard | |

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|---|--|--|--|
| SARA Section 313 - Emission Reporting | Not subject to reporting requirements of the United States SARA Section 313. | | |
| N-NONANE UNLABELED (111-84-2) | | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302. | | |
| SARA Section 311/312 Hazard Classes | Fire hazard Immediate (acute) health hazard | | |
| SARA Section 313 - Emission Reporting | Not subject to reporting requirements of the United States SARA Section 313. | | |
| 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABELED (17062-87-2) | | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302. | | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard | | |
| SARA Section 313 - Emission Reporting | Not subject to reporting requirements of the United States SARA Section 313 | | |
| 5.2. International regulations | | | |

CANADA

| 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) (PCN-70) UNLABELED 100 UG/ML IN NONANE |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |
| N-NONANE UNLABELED (111-84-2) |
| Listed on the Canadian DSL (Domestic Substances List) |

15.2.1. National regulations

No additional information available

15.3. US State regulations

| 1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) (PCN | I-70) UNLABELED 100 UG/ML IN NONANE |
|---|---|
| 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 Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S New Jersey - Right to Know Hazardous Substance List U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances |
| N-NONANE UNLABELED (111-84-2) | |

| N-NONANE ONEADEEED (| 111-04-2) | | | |
|----------------------|------------------------|-----------------------------------|---------------------------------|---------------------------|
| U.S California - | U.S California - | U.S California - | U.S California - | No significant risk level |
| Proposition 65 - | Proposition 65 - | Proposition 65 - | Proposition 65 - | (NSRL) |
| Carcinogens List | Developmental Toxicity | Reproductive Toxicity - Female | Reproductive Toxicity - Male | |
| No | No | No | No | |

| 1,2,3,6,7,8-HEXACN (CHE | MICAL PURITY 97%) UNLAB | ELED (17062-87-2) | | |
|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|
| U.S California - Proposition 65 - | No significant risk level (NSRL) |
| Carcinogens List | Developmental Toxicity | Reproductive Toxicity - Female | Reproductive Toxicity - Male | |
| No | No | No | No | |

N-NONANE UNLABELED (111-84-2)

State or local regulations

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations

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

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

U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

100 UG/ML IN NONANE ECN-2665

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

1,2,3,6,7,8-HEXACN (CHEMICAL PURITY 97%) UNLABELED (17062-87-2)

State or local regulations

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

U.S. - New Jersey - Right to Know Hazardous Substance 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-phrases:

| Acute Tox. 4 (Inhalation:vapour) | Acute toxicity (inhalation:vapour) Category 4 |
|----------------------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment - Chronic Hazard Category 2 |
| Asp. Tox. 1 | Aspiration hazard Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation Category 2 |
| Flam. Liq. 3 | Flammable liquids Category 3 |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H226 | 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 |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H336 | May cause drowsiness or dizziness |
| H411 | Toxic to aquatic life with long lasting effects |
| R10 | Flammable |
| R20 | Harmful by inhalation |
| R22 | Harmful if swallowed |
| R36/37 | Irritating to eyes and respiratory system |
| R36/38 | Irritating to eyes and skin |
| R41 | Risk of serious damage to eyes |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environmen |
| R65 | Harmful: may cause lung damage if swallowed |
| R67 | Vapors may cause drowsiness and dizziness |
| Ν | Dangerous for the environment |
| Xi | Irritant |
| Xn | Harmful |

| NI FA Health hazaru | 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 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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