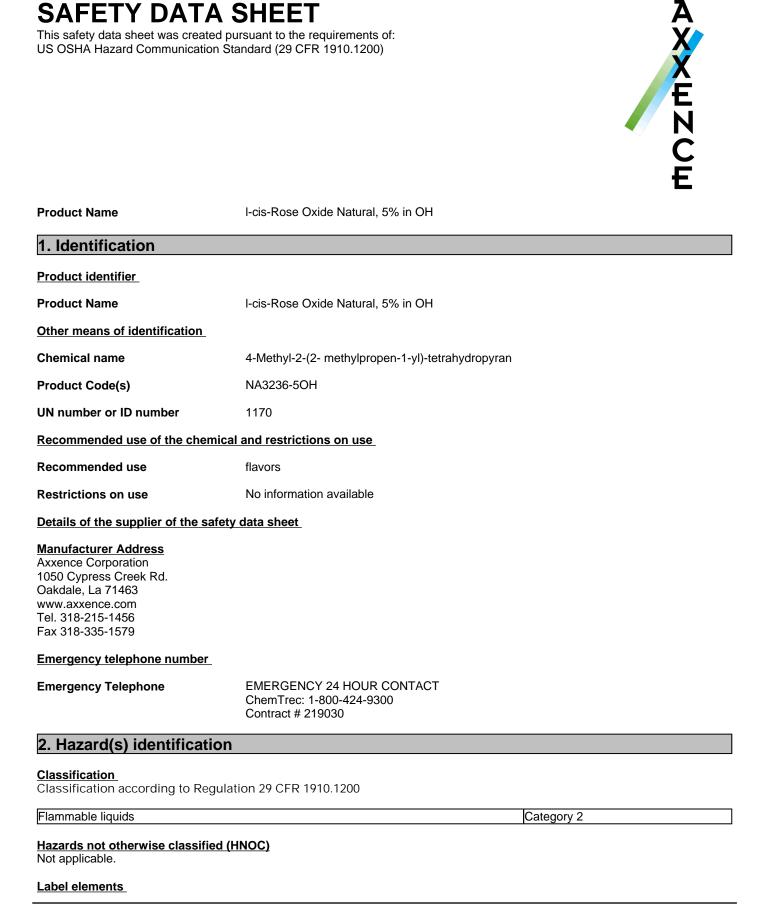
SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)





Danger

Hazard statements Highly flammable liquid and vapor.

Precautionary Statements - Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use only non-sparking tools. Take action to prevent static discharges. Wear protective gloves, eye protection and face protection. Use explosion-proof electrical/ ventilating/ lighting/ equipment.

Precautionary Statements - Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. In case of fire: Use CO2, dry chemical, or foam to extinguish.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

Other information

| 3. Composition/information on ingredients | | |
|---|------------------------------------|--|
| Product Name | I-cis-Rose Oxide Natural, 5% in OH | |
| Substance | | |
| Not applicable. | | |

Mixture

Formula

C10H18O

Molecular weight

154.25 g/mol

| Chemical name | CAS No. | EC No (EU Index No) | Weight-% | Trade secret |
|---------------|---------|---------------------|----------|--------------|
| Ethanol | 64-17-5 | 200-578-6 | 95 | - |
| | | (603-002-00-5) | | |

| 4. First-aid measures | |
|-----------------------|--|
| | |

Description of first aid measures

Inhalation

Remove to fresh air.

| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. |
|---|--|
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes |
| Ingestion | and shoes. Rinse mouth. |
| Self-protection of the first aider | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) |
| F | involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. |
| Most important symptoms and effect | cts, both acute and delayed |
| Symptoms | No information available. |
| Indication of any immediate medica | I attention and special treatment needed |
| Note to physicians | Treat symptomatically. |
| 5. Fire-fighting measures | |
| Flash point | 16 °C / 60.8 °F |
| Flammability Limit in Air | |
| Upper flammability or explosive limits | No data available |
| Lower flammability or explosive limits | No data available |
| Suitable Extinguishing Media | Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. |
| Large Fire | CAUTION: Use of water spray when fighting fire may be inefficient. |
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams. |
| Specific hazards arising from the | Risk of ignition. Keep product and empty container away from heat and sources of ignition. |
| chemical | In the event of fire, cool tanks with water spray. Fire residues and contaminated fire |
| Employing data | extinguishing water must be disposed of in accordance with local regulations. |
| Explosion data Sensitivity to mechanical impac | t Nono |
| Sensitivity to static discharge | Yes. |
| Special protective equipment and | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. |
| precautions for fire-fighters | Use personal protection equipment. |
| Special attention to fire and explosion | None |
| | |

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| Personal precautions Other information | Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Ventilate the area. | |
|--|--|--|
| Methods and material for containment and cleaning up | | |
| Methods for containment | Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. | |
| Methods for cleaning up | Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. | |
| Prevention of secondary hazards | Clean contaminated objects and areas thoroughly observing environmental regulations. | |

7. Handling and storage Precautions for safe handling

| Advice on safe handling | Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. |
|--------------------------------------|---|
| Conditions for safe storage, includi | ng any incompatibilities |
| Storage Conditions | Cool, Dark area. Purge with Nitrogen after each opening. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. |

8. Exposure controls/personal protection

Working area parameters, subject to mandatory control (MAC or TSEL)

Exposure Limits

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|---------------|----------------|---------------------------------------|-------------------------------|
| Ethanol | STEL: 1000 ppm | TWA: 1000 ppm | TWA: 1000 ppm; |
| 64-17-5 | | TWA: 1900 mg/m ³ | TWA: 1900 mg/m ³ ; |
| | | (vacated) TWA: 1000 ppm | IDLH: 3300 ppm |
| | | (vacated) TWA: 1900 mg/m ³ | |

Appropriate engineering controls

| Engineering controls | Showers |
|----------------------|---------------------|
| | Eyewash stations |
| | Ventilation systems |

Individual protection measures, such as personal protective equipment

| Eye/face protection Hand protection Skin and body protection | Tight sealing safety goggles. Wear suitable gloves. Impervious gloves. Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. |
|--|---|
| okin and body protection | Antistatic boots. |
| Respiratory protection | Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. |
| General hygiene considerations | Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. |

9. Physical and chemical properties Information on basic physical and chemical properties **Physical state** Liquid Appearance Mobile Color Colorless to Pale yellow Odor floral, rose-like **Odor threshold** No information available Remarks • Method Property Values pН No data available None known Melting point / freezing point No data available None known 78 °C / 172.4 °F Boiling point None known 16 °C / 60.8 °F Flash point CC (closed cup)

| Evaporation rate | No data available | None known |
|-------------------------------------|--------------------------------|------------|
| Flammability | No data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive lin | mits No data available | |
| Lower flammability or explosive lin | mits No data available | |
| Vapor pressure | No data available | None known |
| Relative vapor density | >1.0 | None known |
| Relative density | 0.79 - 0.83 | None known |
| Water solubility | Soluble in water | None known |
| Solubility(ies) | Alcohol, Oil, Propylene Glycol | None known |
| Partition coefficient | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |
| Refractive Index | 1.365 - 1.369 | |
| Other information | | |
| Explosive properties | No information available | |
| | No information available | |
| Softening point | No information available | |
| Molecular weight | 154.25 g/mol | |
| VOC content | No information available | |
| Liquid Density | No information available | |
| Bulk density | No information available | |
| | | |
| 10 Ctability and reactivity | | |

10. Stability and reactivity

Reactivity Chemical stability Possibility of hazardous reactions None under normal processing. Conditions to avoid Incompatible materials Hazardous decomposition products None known based on information supplied.

No information available. Stable under normal conditions. Heat, flames and sparks. None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

| Inhalation | Specific test data for the substance or mixture is not available. |
|--------------|---|
| Eye contact | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion | Specific test data for the substance or mixture is not available. |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

No information available.

Acute toxicity

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

| ATEmix (oral) | 7,431.60 mg/kg |
|-------------------------------|-----------------|
| ATEmix (dermal) | 99,999.00 mg/kg |
| ATEmix (inhalation-gas) | 99,999.00 ppm |
| ATEmix (inhalation-dust/mist) | 123.10 mg/l |
| ATEmix (inhalation-vapor) | 99,999.00 mg/l |

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|--------------------|-------------|------------------------|
| Ethanol | = 7060 mg/kg (Rat) | - | = 116.9 mg/L (Rat) 4 h |

64-17-5 = 133.8 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| Skin corrosion/irritation | No information available. |
|-----------------------------------|---------------------------|
| Serious eye damage/eye irritation | No information available. |
| Respiratory or skin sensitization | No information available. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | No information available. |
| | |

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | ACGIH | IARC | NTP | OSHA | |
|---------------|-------------------------|---------|-------|------|--|
| Ethanol | A3 | Group 1 | Known | Х | |
| 64-17-5 | A3 - Confirmed Animal | - | | | |
| | Carcinogen with Unknown | | | | |
| | Relevance to Humans | | | | |

Legend

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans NTP (National Toxicology Program) Known - Known Carcinogen Occupational Safety and Health Administration of the US Department of Labor X - Present

| Reproductive toxicity STOT - single exposure STOT - repeated exposure Target organ effects | No information available. No information available. No information available. Liver, Respiratory system, Eyes, Skin, Central nervous system, Blood, Reproductive system. |
|---|--|
| Aspiration hazard | No information available. |
| Other adverse effects | No information available. |
| Interactive effects | No information available. |

12. Ecological information

| Ecotoxicity | Toxic to aquatic life with long lasting effects. | | | |
|---------------|--|-------------------------|----------------|------------------------|
| Chemical name | Algae/aquatic plants | Fish | Toxicity to | Crustacea |
| | | | microorganisms | |
| Ethanol | - | LC50: 12.0 - 16.0mL/L | - | LC50: 9268 - 14221mg/L |
| 64-17-5 | | (96h, Oncorhynchus | | (48h, Daphnia magna) |
| | | mykiss) | | EC50: =2mg/L (48h, |
| | | LC50: >100mg/L (96h, | | Daphnia magna) |
| | Pimephales promelas) | | | |
| | | LC50: 13400 - 15100mg/L | | |
| | | (96h, Pimephales | | |
| | | promelas) | | |

Persistence and degradability No information available. Bioaccumulation

PBT and vPvB assessment No information available.

| Chemical name | | PBT and vPvB assessment | |
|---|--|-------------------------|--|
| Ethanol | | Not PBT/vPvB | |
| Component Information | | | |
| Chemical name | | Partition coefficient | |
| Ethanol | | -0.35 | |
| 64-17-5 | | | |
| Mobility in soil No information available. | | | |
| Other adverse effects No information available. | | | |

13. Disposal considerations

Disposal methods

| Waste from residues/unused products Contaminated packaging | Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. |
|--|---|
| California Hazardous Waste Status | This product contains one or more substances that are listed with the State of California as a hazardous waste. |

14. Transport information

DOT

| UN number or ID number Proper shipping name Transport hazard class(es) Packing group DOT Marine Pollutant | 1170 Ethanol solution 3 II NP |
|--|---|
| IATA UN number or ID number UN proper shipping name Transport hazard class(es) Packing group | 1170 Ethanol solution 3 II |
| IMDG UN number or ID number UN proper shipping name Transport hazard class(es) Packing group Marine pollutant indicator | 1170 Ethanol solution 3 II NP |

15. Regulatory information

International Inventories

| TSCA | Listed |
|--|--|
| DSL/NDSL EINECS/ELINCS ENCS IECSC KECL PICCS AIIC NZIOC | Listed Listed Listed Listed Not Listed Listed Listed Listed |
| Taiwan | Listed |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AIIC - Australian Inventory of Industrial Chemicals

NZIOC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:.

| Chemical name | California Proposition 65 | |
|-------------------|---------------------------|--|
| Ethanol - 64-17-5 | Carcinogen | |
| | Developmental | |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
| Ethanol | Х | Х | Х |
| 64-17-5 | | | |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

| 16. Other info | ormation | | | | | |
|---|--------------------------------------|----------------------------------|-------------------------------------|--|--|--|
| NFPA HMIS | Health hazards 1 Health hazards 2 | Flammability 3 Flammability 3 | Instability 0 Physical hazards 0 | Special hazards - Personal protection X | | |
| | | | | | | |
| Ceiling Maximum limit value Sk* Skin designation Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) Environmental Protection Agency Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database | | | | | | |

International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) U.S. National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

| Revision Number | 1 |
|-----------------|---------------------------|
| Revision date | 26-Feb-2025 |
| Revision Note | No information available. |
| Disclaimer | |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet