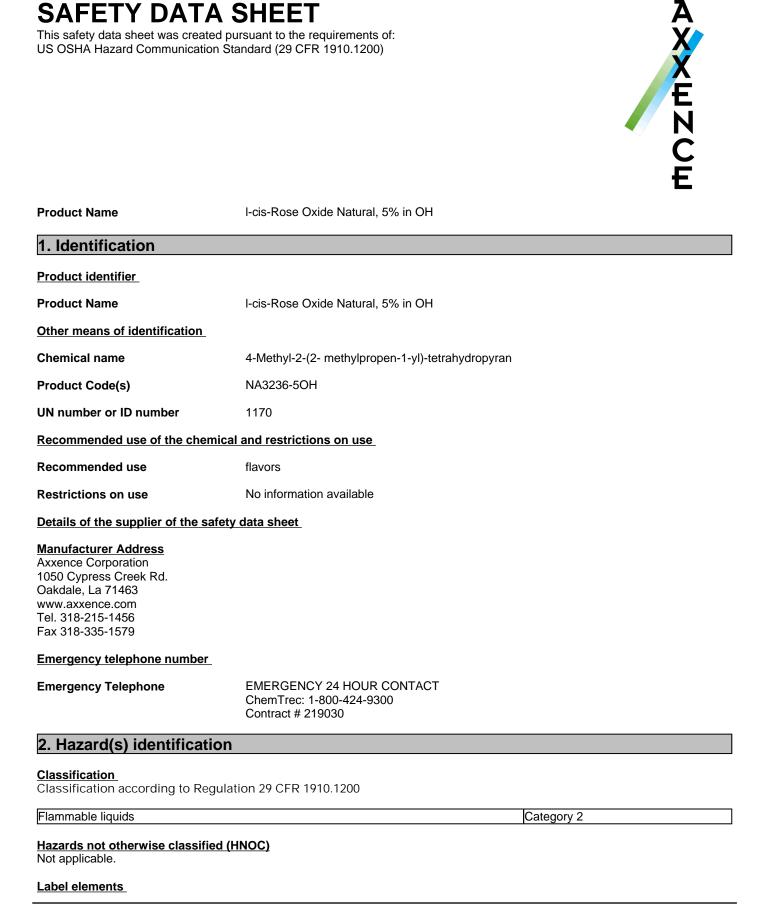
SAFETY DATA SHEET

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

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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