

## SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

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### 65% Ethanol

Revision 0  
Revision date 2019-01-21

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Product name	65% Ethanol
Product code	8073, 8074

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU3] Industrial uses: Uses of substances as such or in preparations at industrial sites; [PC21] Laboratory chemicals;
Description	Intended for laboratory use only.

##### 1.3. Details of the supplier of the safety data sheet

Company	Neogen Corporation
Address	620 Leshler Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	regulatorysupport@neogen.com

##### 1.4. Emergency telephone number

Emergency telephone number	1-800-234-5333
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##### Further information


Hotline(s):	Medical: United States (1-800-498-5743), International (1-651-523-0318). Spill/CHEMTREC: United States (1-800-424-9300), International (1-703-527-3887).
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#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

2.1.2. Classification - GHS	Flam. Liq. 2: H225; STOT SE 2: H371;
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##### 2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Flam. Liq. 2: H225 - Highly flammable liquid and vapour. STOT SE 2: H371 - May cause damage to organs .
Precautionary Statement: Prevention	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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## 2.2. Label elements

<b>Precautionary Statement: Response</b>	P233 - Keep container tightly closed. P240 - Ground/bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting// equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P370+P378 - In case of fire: Use media appropriate to the surrounding conditions to extinguish.
<b>Precautionary Statement: Storage</b>	P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up.
<b>Precautionary Statement: Disposal</b>	P501 - Dispose of contents/container to an approved waste disposal facility in accordance with local and national regulations.

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Ethanol	603-002-00-5	64-17-5	200-578-6		50 - 60%	Flam. Liq. 2: H225;
Isopropanol (2-Propanol)	603-117-00-0	67-63-0	200-661-7		1 - 10%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;
Methanol	603-001-00-X	67-56-1	200-659-6		1 - 10%	Flam. Liq. 2: H225; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT SE 1: H370;

## Further information

The exact percentage (concentration) of composition has been withheld as a trade secret.

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

<b>Inhalation</b>	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
<b>Eye contact</b>	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
<b>Skin contact</b>	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	DO NOT INDUCE VOMITING unless advised to do so by a doctor. Seek medical attention if irritation or symptoms persist.

## 4.2. Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	May cause irritation to respiratory system.
<b>Eye contact</b>	May cause irritation to eyes.
<b>Skin contact</b>	May cause irritation to skin.
<b>Ingestion</b>	Ingestion may cause nausea and vomiting.

## SECTION 5: Firefighting measures

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## 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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## 5.2. Special hazards arising from the substance or mixture

	Extremely flammable liquid and vapour. Burning produces irritating, toxic and obnoxious fumes.
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## 5.3. Advice for firefighters

	In case of fire and/or explosion do not breathe fumes. Wear suitable respiratory equipment when necessary.
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**SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Wear suitable protective equipment. Avoid contact with eyes and skin.
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## 6.2. Environmental precautions

	Prevent further spillage if safe. Do not flush into surface water. Do not let product contaminate subsoil.
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## 6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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## 6.4. Reference to other sections

	See section 2, 8, and 13 for further information.
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**SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
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## 7.2. Conditions for safe storage, including any incompatibilities

	Extremely flammable liquid and vapour. Avoid contact with: Heat, sparks and open flames. Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.
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## 7.3. Specific end use(s)

	See section 1.2 for further information.
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**SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## Exposure Limit Values


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## Exposure Limit Values

Ethanol	<p>ACGIH TLV TWA: 1000 ppm Notations: A4 OSHA PEL 8hr TWA mg m3: 1900 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:</p>	<p>ACGIH TLV STEL: - OSHA PEL 8hr TWA ppm: 1000 Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:</p>
Isopropanol (2-Propanol)	<p>ACGIH TLV TWA: 200 ppm Notations: A4 OSHA PEL 8hr TWA mg m3: 980 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:</p>	<p>ACGIH TLV STEL: 400 ppm OSHA PEL 8hr TWA ppm: 400 Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:</p>
Methanol	<p>ACGIH TLV TWA: 200 ppm Notations: Skin; BEI OSHA PEL 8hr TWA mg m3: 260 NIOSH REL 10hr TWA ppm: NIOSH REL 15 min ST ppm:</p>	<p>ACGIH TLV STEL: 250 ppm OSHA PEL 8hr TWA ppm: 200 Skin Designation: - NIOSH REL 10hr TWA mg m3: NIOSH REL 15 min ST mg m3:</p>

## 8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Wear eye/face protection.
Skin protection - Hand protection	Wear suitable gloves.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

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## 9.1. Information on basic physical and chemical properties

<b>State</b>	Liquid
<b>Color</b>	Clear/Colorless
<b>Odor</b>	Alcoholic
<b>Odour threshold</b>	80 ppm
<b>pH</b>	No data available
<b>Melting point</b>	- 41 °C
<b>Freezing Point</b>	No data available
<b>Boiling point</b>	80 °C
<b>Flash point</b>	22 °C
<b>Evaporation rate</b>	No data available
<b>Flammability limits</b>	Not applicable.
<b>Upper Explosive Limit</b>	27.7 %
<b>Lower Explosive Limit</b>	3.1 %
<b>Vapor pressure</b>	128 Pa
<b>Vapor density</b>	No data available
<b>Relative density</b>	0.9 (H <sub>2</sub> O = 1 @ 20 °C)
<b>Partition coefficient</b>	No data available
<b>Autoignition temperature</b>	400 °C
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Solubility</b>	Soluble in water

## 9.2. Other information

<b>VOC (Volatile organic compounds)</b>	No data available
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## SECTION 10: Stability and reactivity

## 10.1. Reactivity

	Flammable liquid and vapour.
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## 10.2. Chemical stability

	Stable under normal conditions.
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## 10.3. Possibility of hazardous reactions

	No data available.
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## 10.4. Conditions to avoid

	Keep away from sources of ignition - No smoking.
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## 10.5. Incompatible materials

	Strong oxidizing agents.
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## 10.6. Hazardous decomposition products

	Carbon oxides.
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## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

<b>Acute toxicity</b>	May be harmful by ingestion, inhalation or if absorbed through the skin.
<b>Skin corrosion/irritation</b>	May cause irritation to skin.

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## 11.1. Information on toxicological effects

Serious eye damage/irritation	May cause eye irritation.
Respiratory or skin sensitisation	May cause allergic reactions in susceptible people.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	Listed by the International Agency for Research on Cancer (IARC) as a group 3 substance: evidence does not support the substance as a human carcinogen. Not listed in the National Toxicology Program (NTP) 13th Report on Carcinogens. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	May cause harm to the unborn child.
STOT-single exposure	May cause irritation to respiratory system.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure.

## 11.1.4. Toxicological information

	No data available
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## SECTION 12: Ecological information

## 12.1. Toxicity

	No data available
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## 12.2. Persistence and degradability

	No data available.
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## 12.3. Bioaccumulative potential

## Partition coefficient

	65% Ethanol No data available Methanol -0.77 log P	Ethanol -0.349 log P
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## SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

	Dispose of in compliance with all local and national regulations.
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## General information

	Dispose of in compliance with all local and national regulations. Do not contaminate water by cleaning of equipment or disposal of wastes.
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## Disposal of packaging

	Do NOT reuse empty containers. Empty containers can be sent for disposal or recycling.
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## SECTION 14: Transport information

## Hazard pictograms

	
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## 14.1. UN number

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## 14.1. UN number

	UN1170
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## 14.2. UN proper shipping name

	ETHANOL
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## 14.3. Transport hazard class(es)

DOT	3
Subsidiary risk	-
IMDG	3
Subsidiary risk	-
IATA	3
Subsidiary risk	-

## 14.4. Packing group

Packing group	II
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## 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

## DOT

Hazard ID	33
Tunnel Category	(D/E)

## IMDG

EmS Code	F-E S-D
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## IATA

Packing Instruction (Cargo)	364
Maximum quantity	60 L
Packing Instruction (Passenger)	353
Maximum quantity	5 L

## SECTION 15: Regulatory information

## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	<p>Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.</p> <p>All chemicals in this product are TSCA listed or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. TSCA - United States Toxic Substances Control Act Section 8(b) Inventory.</p> <p>US State Regulations:</p> <p>New Jersey Right-to-Know Hazardous Substance List: Ethanol, Isopropanol, Methanol</p> <p>Pennsylvania Right-to-Know Hazardous Substance List: Ethanol, Isopropanol, Methanol.</p> <p>Rhode Island Right-to-Know Hazardous Substance List: Ethanol, Isopropanol, Methanol.</p>
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## 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

California Prop 65:  
WARNING: Reproductive effects - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Ethanol	Y	Y	N	N	N	N	N	N	N
Isopropanol (2-Propanol)	Y	N	Y 1.0	N	N	N	N	N	N
Methanol	Y	Y	Y 1.0	Y	N	Y	N	N	N

## SECTION 16: Other information

## Other information

<b>Text of Hazard Statements in Section 3</b>	<p>Flam. Liq. 2: H225 - Highly flammable liquid and vapour.            Eye Irrit. 2: H319 - Causes serious eye irritation.            STOT SE 3: H336 - May cause drowsiness or dizziness.            Acute Tox. 3: H301 - Toxic if swallowed.            Acute Tox. 3: H311 - Toxic in contact with skin.            Acute Tox. 3: H331 - Toxic if inhaled.            STOT SE 1: H370 - Causes damage to organs .            STOT SE 2: H371 - May cause damage to organs .</p>
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## Further information

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