

SECTION 1: IDENTIFICATION

1.1. - IDENTIFICATION

Product name : Ethylene glycol monopropyl ether
 Product Number : 537675
 Brand : Sigma-Aldrich
 Index-No. : 603-095-00-2
 CAS-No. : 2807-30-9

1.2. - RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Identified uses : Laboratory chemicals, Manufacture of substances

1.3. - SUPPLIER

Superior Surface Solutions
 701 Woodswether Rd.
 Kansas City, MO 64105
 T 816-471-5227

1.4. - EMERGENCY TELEPHONE NUMBER

Emergency number : INFOTRAC: 1-800-535-5053

SECTION 2: HAZARD(S) IDENTIFICATION

2.1. - CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226
 Acute toxicity, Dermal (Category 4), H312
 Eye irritation (Category 2A), H319
 For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. - GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Classification of the Substance or Mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Pictogram



Signal word Warning

Hazard statement(s)

H226 Flammable liquid and vapor.

H312 Harmful in contact with skin.

H319 Causes serious eye irritation.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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.

P264 Wash skin thoroughly after handling.

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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

P322 Specific measures (see supplemental first aid instructions on this label).

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3. - HAZARDS NOT OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS - NONE

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. - SUBSTANCES

Synonyms	: 2-Propoxyethanol Propyl glycol EP Solvent
Formula	: C5H12O2
Molecular weight	: 104.15 g/mol
CAS-No.	: 2807-30-9
EC-No.	: 220-548-6
Index-No.	: 603-095-00-2

Component	Classification	Concentration
2-Propoxyethanol		
	Flam. Liq. 3; Acute Tox. 4; Eye Irrit. 2A; H226, H312, H319	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST-AID MEASURES

4.1. - DESCRIPTION OF FIRST AID MEASURES

General Advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If Inhaled	: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In Case of Skin Contact	: Wash off with soap and plenty of water. Consult a physician.
In Case of Eye Contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If Swallowed	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2. - MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3. - Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. - EXTINGUISHING MEDIA

Suitable Extinguishing Media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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5.2. - SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

: Carbon oxides

5.3. - ADVICE FOR FIREFIGHTERS

: Wear self-contained breathing apparatus for firefighting if necessary.

5.4. - FURTHER INFORMATION

: Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. - PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

6.1. Personal Precautions, Protective Equipment & Emergency Procedures	: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.
6.2. Environment Precautions	: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
6.3. Containment and Clean Up	: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
6.4. Reference to other sections	: For disposal see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. - PRECAUTIONS FOR SAFE HANDLING

- 7.1. Precautions for Safe Handling** : Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.
- 7.2. Conditions for safe storage, including any incompatibilities** : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- 7.3. Specific end use(s)** : Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. - CONTROL PARAMETERS

- 8.1. Control Parameters** : **Components with workplace control parameters**
- : Contains no substances with occupational exposure limit values.
- 8.2. Exposure controls** : **Appropriate engineering controls**
- : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
- : **Personal Protective Equipment**
- : **Personal Protection**
- : Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Sigma-Aldrich - 537675 Page 4 of 8
- : **Skin Protection**
- : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
- : Full contact
 - Material: Nitrile rubber
 - Minimum layer thickness: 0.4 mm
 - Break through time: 480 min
 - Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)
- : Splash contact
 - Material: Nitrile rubber
 - Minimum layer thickness: 0.2 mm
 - Break through time: 30 min
 - Material tested: Dermatril® P (KCL 743 / Aldrich Z677388, Size M)
- : data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
- : If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
- : **Body Protection**
- : Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- : **Respiratory Protection**
- : Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- : **Control of Environmental Exposure**
- : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. - INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: clear, liquid
	Color: colorless
Odor	Sweet
Odor Threshold	No data available
pH	No data available
Melting Point/Freezing Point	Melting point/range: -75 °C (-103 °F) - lit.
Initial Boiling Point and Boiling Range	150 - 153 °C (302 - 307 °F) - lit.
Flash Point	48 °C (118 °F) - closed cup
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/Lower Flammability or Explosive Limits	No data available
Vapor Pressure	1.7 hPa (1.3 mmHg) at 20 °C (68 °F)
Vapor Density	No data available
Relative Density	0.913 g/cm ³ at 25 °C (77 °F)
Water Solubility	No data available
Partition Coefficient: noctanol/water	log Pow: 0.673 at 40 °C (104 °F)
Auto-ignition Temperature	256 °C (493 °F) at 999.25 hPa (749.50 mmHg)
Decomposition Temperature	No data available
Viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available

9.1. - OTHER SAFETY INFORMATION

9.1. Surface Tension : 71 mN/m at 20 °C (68 °F)

10. - STABILITY AND REACTIVITY

10.1. Reactivity	: No data available
10.2. Chemical stability	: Stable under recommended storage conditions.
10.3. Possibility of hazardous reactions	: No data available
10.4. Conditions to avoid	: Heat, flames and sparks.
10.5. Incompatible materials	: Strong oxidizing agents
10.6. Hazardous decomposition products	: Other decomposition products - No data available In the event of fire: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

10.1. - INFORMATION ON TOXICOLOGICAL EFFECTS

Acute Toxicity:

LD50 Oral - Rat - male - 3,089 mg/kg

Remarks: Lungs, Thorax, or Respiration:Dyspnea. Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

LC50 Inhalation - Mouse - 7 h - 1530 ppm

Remarks: Behavioral:Analgesia. Lungs, Thorax, or Respiration:Dyspnea. Kidney, Ureter, Bladder:Hematuria.

LD50 Dermal - Rabbit - male - 1,337 mg/kg

No data available

Skin Corrosion/Irritation:

Skin - Rabbit

Result: No skin irritation

Serious eye damage/eye irritation:

Eyes - Rabbit

Result: Irritating to eyes.

Respiratory or skin sensitisation:

Buehler Test - Guinea pig

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Did not cause sensitisation on laboratory animals.

(OECD Test Guideline 406)

Germ cell mutagenicity:

in vitro assay

S. typhimurium

Result: negative

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. - INFORMATION ON TOXICOLOGICAL EFFECTS

Germ cell Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Germ cell Reproductive toxicity

No data available

Reproductive Toxicity - Rat - Inhalation

Maternal Effects: Other effects. Specific Developmental Abnormalities: Musculoskeletal system.

Reproductive toxicity - Mouse - Oral

Effects on Newborn: Stillbirth.

No data available

Developmental Toxicity - Rat - Inhalation

Specific Developmental Abnormalities: Musculoskeletal system.

Specific Target Organ Toxicity - Single Exposure

No data available

Specific Target Organ Toxicity - Repeated Exposure

No data available

Aspiration Hazard

No data available

Additional Information

Repeated dose toxicity - Rat - male - Oral - No observed adverse effect level - < 195 mg/kg - Lowest observed adverse effect level - 195 mg/kg

RTECS: KM2800000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

SECTION 12: ECOLOGICAL INFORMATION

12.1. - TOXICITY

Toxicity to fish	: static test LC50 - Pimephales promelas (fathead minnow) - > 5,000 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	: static test LC50 - Daphnia (water flea) - > 5,000 mg/l - 48 h
Toxicity to algae	: static test EC50 - Pseudokirchneriella subcapitata - > 100 mg/l - 72 h (OECD Test Guideline 201)

12.2 PERSISTENCE AND DEGRADABILITY

No data available

12.3 BIOACCUMULATIVE POTENTIAL

No data available

12.4 MOBILITY IN SOIL

No data available

12.5 RESULTS AND PBT AND vPvB ASSESSMENT

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 OTHER ADVERSE EFFECTS

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. - WASTE TREATMENT METHODS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated Packaging

Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT)

UN number: 1993 Class: 3 Packing group: III

Proper shipping name: Flammable liquids, n.o.s. (2-Propoxyethanol)

Reportable Quantity (RQ):

Poison Inhalation Hazard: No

IMDG

UN number: 1993 Class: 3 Packing group: III EMS-No: F-E, S-E

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (2-Propoxyethanol)

IATA

UN number: 1993 Class: 3 Packing group: III

Proper shipping name: Flammable liquid, n.o.s. (2-Propoxyethanol)

SECTION 15: REGULATORY INFORMATION

15.1. - US FEDERAL REGULATIONS

SARA 302 COMPONENTS

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 COMPONENTS

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 HAZARDS

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

No components are subject to the Massachusetts Right to Know Act.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

2-Propoxyethanol	CAS-No. 2807-30-9	Revision Date 1989-08-11
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NEW JERSEY RIGHT TO KNOW COMPONENTS

2-Propoxyethanol	CAS-No. 2807-30-9	Revision Date 1989-08-11
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CALIFORNIA PROP. 65 COMPONENTS

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

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

Acute Tox. Acute toxicity

Eye irritation

Flam. Liq. Flammable liquids

H226 Flammable liquid and vapor.

H312 Harmful in contact with skin.

H319 Causes serious eye irritation.

HMIS RATING

Health hazard: 2

Chronic Health Hazard: *

Flammability: 2

Physical Hazard 0

NFPA RATING

Health hazard: 2

Fire Hazard: 2

Reactivity Hazard: 0

FURTHER INFORMATION

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PREPARATION INFORMATION

Superior Surface Solutions Corporation

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