

File version: 1

1,2-Propanediol, 100%(v/v)

SDS Date: 06 Dec 2016

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 100%(v/v) 1,2-Propanediol

SYNONYMS: Propylene glycol

PRODUCT CODES: 1008426

1008427

MANUFACTURER: Rigaku Reagents
ADDRESS: 9009 New Trails Drive
The Woodlands, TX 77381

USA

PHONE: +1 (281) 362-2300 x 502

EMAIL: ReagentOrders@Rigaku.com

CHEMICAL NAME: Propane-1,2-diol

CHEMICAL FORMULA: C₃H₈O₂

PREPARED BY: Rigaku Reagents

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

OSHA HAZARDS: No known OSHA hazards

GHS CLASSIFICATION:

Skin irritation (Category 3) Eye irritation (Category 2B)

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Signal word: Warning Hazard statement(s):

H316 Causes mild skin irritation.

H320 Causes eye irritation.

Precautionary statement(s):

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

Continue rinsing.

POTENTIAL HEALTH EFFECTS:

EYES: May cause eye irritation.

SKIN: May be harmful if absorbed through skin. May cause skin irritation.

INGESTION: May be harmful if swallowed.

INHALATION: May be harmful if inhaled. May cause respiratory tract irritation.

SECTION 2 NOTES:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS: Propane-1,2-diol

PROPANE-1,2-DIOL:

 CAS NO.
 % WT
 % VOI

 57-55-6
 ≤100

SECTION 3 NOTES:



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SECTION 4: FIRST AID MEASURES

EYES: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

SKIN: Wash off with soap and plenty of water. Consult a physician.

INGESTION: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

INHALATION: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT:

F: 217 ° **C**: 103 °

AUTOIGNITION TEMPERATURE:

F: No data available C: No data available

NFPA HAZARD CLASSIFICATION

HEALTH: 0 .AMMABILITY: 1 **REACTIVITY: 0**

HMIS HAZARD CLASSIFICATION

FLAMMABILITY: 1 HEALTH: 0 **REACTIVITY: 0**

EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous decomposition products formed under fire conditions. - Carbon oxides,

SECTION 5 NOTES: Not flammable or combustible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Do not let product enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep container tightly closed in a dry and wellventilated place. Hygroscopic. Light sensitive.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



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RESPIRATORY PROTECTION: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose 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).

EYE PROTECTION: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

WORK HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: clear, colorless

PHYSICAL STATE: liquid, clear, viscous

pH AS SUPPLIED: No data available pH (Other): No data available

BOILING POINT:

F: 369 °

C: 187 °

FREEZING POINT:

F: -76 °

C: -60 °

VAPOR PRESSURE (mmHg): 0.08 mmHg

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F: 68

C: 20°

VAPOR DENSITY (AIR = 1): 2.63

SPECIFIC GRAVITY (H2O = 1): 1.036

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F: 77°

C: 25 °

EVAPORATION RATE: No data available

SOLUBILITY IN WATER: No data available

VISCOSITY: No data available

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F: No data available

C: No data available

SECTION 9 NOTES:



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STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID (STABILITY): Exposure to moisture.

INCOMPATIBILITY (MATERIAL TO AVOID): Acid chlorides, acid anhydrides, oxidizing agents, chloroformates, reducing agents

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Hazardous decomposition products formed under fire conditions. - Carbon oxides. Other decomposition products - no data available

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

ORAL LD50: Rat - 20,000 mg/kg
INHALATION LC50: No data available
DERMAL LD50: Rabbit - 20,800 mg/kg

SKIN CORROSION/IRRITATION: Human - Mild skin irritation - 7 d

SERIOUS EYE DAMAGE/EYE IRRITATION: Rabbit - Mild eye irritation

RESPIRATORY OR SKIN SENSITIZATION: No data available

GERM CELL MUTAGENICITY: No data available

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.

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.

REPRODUCTIVE TOXICITY: No data available

SECTION 11 NOTES: Symptoms of exposure: Gastrointestinal disturbance, Nausea, Headache, Vomiting, Central nervous system depression

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY:

TOXICITY TO FISH: mortality NOEC - Pimephales promelas (fathead minnow) - 52,930 mg/l - 96 h

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES: mortality NOEC - Daphnia - 13,020 mg/l - 48 h

EC50 - Daphnia magna (Water flea) - > 10,000 mg/l - 48 h

PERSISTENCE AND DEGRADABILITY

No data available

BIOACCUMULATIVE POTENTIAL

No data available

MOBILITY IN SOIL

No data available

PBT AND vPvB ASSESSMENT

No data available

SECTION 12 NOTES:



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SECTION 13: DISPOSAL CONSIDERATIONS

PRODUCT: Offer surplus and non-recyclable solutions to a licensed disposal company.

CONTAMINATED PACKAGING: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

Not dangerous goods

WATER TRANSPORTATION

Not dangerous goods

AIR TRANSPORTATION

Not dangerous goods

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

OSHA HAZARDS: No known OSHA hazards

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: No SARA Hazards

MASSACHUSETTS RIGHT TO KNOW COMPONENTS:

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

PENNSYLVANIA RIGHT TO KNOW COMPONENTS:

CAS-No.

Propane-1,2-diol

57-55-6

NEW JERSEY RIGHT TO KNOW COMPONENTS:

CAS-No.

Propane-1,2-diol

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 15 NOTES:

SECTION 16: OTHER INFORMATION

DISCLAIMER: The above information is believed to be correct but does not necessarily include all information and should be used only as a guide. The information in this document is based on our current knowledge and applies to the product with regard to appropriate safety precautions. This document does not represent any guarantee of the properties of the product. Rigaku Reagents will not be held liable for any damage resulting from handling or contact with the above product.