

# Safety Data Sheet

## TRUEGARD 960

According to OSHA Hazard Communication Standard,  
29 CFR 1910.1200 Effective Date 12/05/2021



### SECTION 1

### MATERIAL AND COMPANY IDENTIFICATION

**Material Name:** TRUEGARD 960

**Chemical Family:** Glycols

**Recommended Uses:** Inhibited propylene glycol fluid which is intended for use in antifreeze and heat transfer applications where contact with food may occur.

**Information Phone:** 773-247-7606

**Emergency Phone:** Poison Control Center: Consult local telephone directory for emergency number(s).

Supplied by:

**KELLER-HEARTT OIL**  
4411 South Tripp Ave.  
Chicago, IL 60632  
P. 773-247-7606 F. 773-247-7969  
[www.kellerheartt.com](http://www.kellerheartt.com)

### SECTION 2

### HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

#### Classification according to 29 CFR §1910.1200 (d)

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### Label elements

Labeling according to 29 CFR §1910.1200 (f)

Symbol(s): None  
Signal word: None  
Other hazards: None

### SECTION 3

### COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Amount
Propylene Glycol	57-55-6	98-100%

Inhibitor system: Proprietary

### SECTION 4

### FIRST AID MEASURES

General Advice:

If exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.

If inhaled:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if breathing becomes difficult or respiratory irritation develops.

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In case of skin contact:	Wash with soap and plenty of water. Consult a physician if irritation develops or persists. Wash contaminated clothing before reuse.
In case of eye contact:	Flush with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation develops or persists.
If swallowed:	Wash out mouth with water, then drink water to dilute. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms develop.
Most important symptoms and effects, both acute and delayed	Acute: Mild eye, skin and/or respirator tract irritation.
Delayed	No data available
Indication of any immediate medical attention and special treatment needed	Symptomatic/supportive therapy as required.

## SECTION 5

## FIRE FIGHTING MEASURES

Extinguishing Media	In case of fire: Use alcohol foam, carbon dioxide, dry chemical, or water spray for extinction. Use water spray to cool fire exposed containers.
Unsuitable Extinguishing Media	Jet water spray may cause frothing and splattering of burning material.
Special hazards arising from the substance or mixture	Material may be ignited only if preheated to high temperatures (i.e. in fire conditions). Vapors can be ignited at or above the flash point. The vapor is heavier than air and may travel along the ground; distance ignition is possible. Container holding this material may explode in the heat of a fire. Empty containers may still contain residual material than can ignite and/or result in explosion. Produces oxides of carbon upon combustion.

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### Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand (OSHA/NIOSH approved or equivalent) and full protective gear.

## SECTION 6

## ACCIDENTAL RELEASE MEASURES

### Protective Measures

Evacuate danger area. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all possible sources of ignition in the surrounding area. Stop the source of leak or release if safe to do so. Personal protection equipment as recommended in Section 8 and NIOSH approved self-contained breathing apparatus.

### Environmental Precautions

Use appropriate containment of product and fire fighting water to avoid environmental contamination. Prevent from spreading or entering drains, sewers, ditches or rivers by using sand, earth, or other appropriate barriers. Notify authorities if any exposure to the general public or environment occurs or is likely to occur. Local authorities should be advised if significant spillages cannot be contained.

### Methods and material for containment and cleaning up

#### Air Release:

Vapors may be suppressed by the use of water fog. Contain al liquid for treatment and/or disposal as a potential hazardous waste.

#### Water Release:

This material is miscible in water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so.

#### Land Release:

Create dike or trench to contain spilled material. Absorb spilled product with inert material such as dry sand, clay, vermiculite, or other commercial absorbent. Place in a sealable, properly labeled container. Store in safe location until disposal. Wash area with soap and water.

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### SECTION 7

### HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with eyes or skin. Avoid breathing vapors or mists. Wear protective gloves/protective clothing/eye protection/face protection. Handle only with adequate ventilation. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Condition for safe storage:

Store in a cool, dry, well-ventilated location. Keep container tightly closed. Store separated from strong oxidants. Ensure that all local regulations regarding handling and storage facilities are followed.

Specific end user(s):

No data available.

### SECTION 8

### EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Permissible Exposure Limits

Compound Name	CAS#	Source 1	Source 2	BEI/Skin Notation
PROPYLENE GLYCOL	57-55-6	AIJA WEEL: 10 MG/M3 TWA aerosol	N.D	N.D

N.D. - No data available

AIHA: American Industrial Hygiene Association

TWA: Time weighted average

STEL: Short Term Exposure Limit

WEEL: Workplace Environmental Exposure Level

BEI: Biological Exposure Indices

Exposure Controls

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures may include the following:

Use sealed systems as far as possible. Adequate explosion-proof ventilation to control airborne concentrations below the exposure limits. Local exhaust ventilation is recommended. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

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### Personal Protective Equipment:

Use personal protective equipment as required. All personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers for more information.

### Respiratory Protection

Use only with adequate ventilation. If engineering controls do not maintain airborne concentrations at a level which is adequate to protect worker health, an approved respirator with an organic vapor cartridge and particulate filter should be used. When there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection. Contact respirator supplier for specific recommendations.

### Hand Protection

Where hand contact with this material may occur, use impervious gloves that meet applicable standards. Contact glove manufacturer for advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn and damaged gloves.

### Eye Protection

Use safety glasses with side shields or safety goggles.

### Skin Protection

Use impervious gloves.

### Specific Hygiene Measures

Do not eat, drink, or smoke when handling this material. Wash hands thoroughly after handling. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

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### Monitoring Methods

Monitoring of the vapor concentrations of chemicals in the workplace may be required to confirm compliance with OEL and adequacy of exposure controls. Sources for recommended air monitoring methods include:

USA: National Institute of Occupational Safety and Health (NIOSH): Manual of Analytical Methods,

<http://www.cdc.gov/niosh/nmam/nmammenu.html>.

USA: Occupational Safety and Health Administration (OSHA): Sampling and Analytical Methods,

<http://osha.gov/dts/sltc/methods/toc.html>.

### Environmental Exposure Controls

Local guidelines for emissions limits for volatile substances must be observed for the discharge of exhaust air containing vapors. See Sections 6, 7, 12, and 13 for more information on environmental exposure controls.

## SECTION 9

## PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form:	Liquid
Color:	Clear to slightly hazy
Odor:	Mild
Odor threshold:	No data available
P of 33% aqueous solution	9.6 typical.
Melting/freezing point:	-60 °C
Initial boiling point and boiling range:	187 °C
Flash point:	107 °C
Evaporation rate:	0.01 (Butyl Acetate = 1)
Flammability (solid, gas):	No data available
Upper/lower flammability/explosive limits	2.6 - 12.5 (Vol %)
Vapor pressure:	<0.1 mmHg at 25° C
Vapor density:	2.62
Relative density:	1.04 (Water = 1)
Solubility(ies):	Completely miscible in water
Partition coefficient: n-octanol/water:	-0.92 (Log Kow)

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Auto-ignition temperature: 371.0 °C  
Decomposition temperature: No data available  
Viscosity: 0.581 cP at 20°

### Other information

Chemical formula: C<sub>3</sub> H<sub>8</sub> O<sub>2</sub>  
Molecular weight: 76.1

## SECTION 10

## STABILITY AND REACTIVITY

Reactivity	Reacts with strong oxidants, causing fire hazard.
Chemical Stability	The chemical is stable at recommended storage conditions. It is not sensitive to static discharge or mechanical shock. Hazardous polymerization will not occur.
Possibility of hazardous reactions	Explosive in the form of vapor when exposed to heat or flame. May react with hydrofluoric acid, nitric acid, and silver nitrate to form the explosive silver fulminate.
Conditions to Avoid	Avoid heat, sparks, open flames, and other sources of ignition.
Incompatible materials Hazardous Decomposition Products	Strong oxidizing agents. On combustion, this material forms oxides of carbon.

## SECTION 11

## TOXICOLOGICAL INFORMATION

Eye	This material may cause irritation, but is not expected to cause serious/permanent eye damage.
Skin	This material may cause mild irritation, but is not expected to cause serious permanent damage to the skin.
Inhalation	This material may cause mild respiratory irritation, but is not expected to cause serious/permanent damage.

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Ingestion	This material is not expected to be toxic through ingestion, but may cause mild gastrointestinal effects including nausea, vomiting and diarrhea.
Chronic Effects	There are no known or reported effects of chronic exposure other than those experienced through acute exposure.
Subchronic Effects	No information available.
Respiratory or skin sensitization	This material is not known or reported to be a respiratory sensitizer.
Germ cell mutagenicity	No developmental risk to humans is expected from exposure to this product.
Reproductive Toxicity	No reproductive risk to humans is expected from exposure to this product.
Specific target organ toxicity single exposure.	There are no known or reported target organ effects from acute exposure.
Specific target organ toxicity repeat exposure.	There are no known or reported target organ effects from repeat exposure.
Aspiration Hazard	No data available.
Potential health effects	Exposure to this compound may cause irritation to the eyes and skin.

### ACUTE TOXICITY ESTIMATES

Compound Name	CAS#	Test-Species-Result
Propylene Glycol	57-55-6	Oral LD50 - Rat: >5000 mg/kg; Dermal LD50 - Rabbit: >2000 mg/kg

### CARCINOGENICITY

#### IARC (International Agency for Research on Cancer):

No component of this product present in concentrations of 0.1% or greater is identified by IARC to be a probable, possible, or confirmed carcinogen.

#### NTP (National Toxicology Program):

No component of this product present in concentrations of 0.1% or greater is identified by NTP to be a known or reasonably anticipated carcinogen.



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### OSHA (U.S. Occupational Health and Safety Administration):

No component of this product present in concentrations of 0.1% or greater is identified by OSHA to be a carcinogen or potential carcinogen.

## SECTION 12

## ECOLOGICAL INFORMATION

### EXOTOXICITY

This product is expected to be practically non-toxic to fish and other aquatic organisms.

Compound Name	CAS#	Test-Species-Results
Propylene Glycol	57-55-6	LC50 - Fathead minnow: >62,000 mg/L/96h LC50 - Daphnia magna: 43,500 mg/L/48 hr

### Persistence and Degradability

Propylene glycol is expected to readily degrade.

#### Bioaccumulative Potential

According to the National Library of Medicine Hazardous Substance Data Bank [NLM HSDB]: An estimated BCF of 3 was calculated for propylene glycol, using a log Kow of -0.92 and a regression-derived equation. According to a classification scheme, this BCF suggests the potential for bioconcentration in aquatic organisms is low.

#### Mobility in soil

According to the National Library of Medicine Hazardous Substance Data Bank [NLM HSDB]: The Koc of propylene glycol is estimated as 1, using a log Kow of -0.92 and a regression-derived equation. According to a classification scheme, this estimated Koc value suggests that propylene glycol is expected to have very high mobility in soil.

#### Other adverse effects

No data available.

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### SECTION 13

### DISPOSAL CONSIDERATIONS

**CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL. THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE, AND DISPOSAL FOR HAZARDOUS AND NON-HAZARDOUS WASTE.**

#### Product Disposal

Recover or recycle if possible. It is the responsibility of the waste generator to determine the physical characteristics and toxicity of the material generated in order to properly designate the waste classification and disposal methods in compliance with applicable regulations.

#### Container Disposal

Follow all SDS/label precautions even after container is emptied because they may retain product residues. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through a suitable qualified or licensed contractor and in accordance with governmental regulations.

### SECTION 14

### TRANSPORT INFORMATION

#### U.S. DOT

This material is not regulated as a hazardous material for transport by the U.S. Department of Transportation in accordance with 49 CFR 172.101.

#### Sea (IMDG)

This material is not regulated as dangerous goods in accordance with the IMDG Code.

#### AIR (IATA)

This material is not regulated as dangerous goods in accordance with the IATA Code.

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### SECTION 15

### REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of 29 CFR §1910.1200

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substances Control Act (TSCA) or are exempt from reporting.

As defined under SARA 311 and 312, this product contains materials that are designated as the following hazards: NONE

#### FEDERAL REGULATORY LISTS:

Compound Name	CAS#	SARA 312	CERCLA	RCRA	CAA
Propylene Glycol	57-55-6	N.L.	N.L.	N.L.	N.L.

N.L.-Not listed on regulatory list

#### CALIFORNIA REGULATIONS:

This product contains no listed substances known to the State of California to cause cancer, birth defects, or other reproductive harm, at levels which would require a warning under the statute.

#### PENNSYLVANIA REGULATIONS:

The following product components are cited on the Pennsylvania Hazardous Substances List and/or the Pennsylvania Environmental Hazardous Substances List, and are present at levels which require reporting.

Compound Name	CAS#	LISTING	AMOUNT
PROPYLENE GLYCOL	57-55-6	PA RTK	98-100%

To the best of our knowledge, this product does not contain any components cited on the Pennsylvania Special Hazardous Substances List.

#### ADDITIONAL STATE REGULATIONS

Components of this product are found on the following state lists.

Compound Name	CAS#	STATE LISTS
PROPYLENE GLYCOL	57-55-6	MA, MN, NJ, RI

#### CHEMICAL SAFETY ASSESSMENT

No data available

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### CHEMICAL SAFETY ASSESSMENT

No data available

## SECTION 16

## OTHER INFORMATION

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 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.