**Safety Data Sheet: PROPYLENE GLYCOL INDUSTRIAL** **PINK**

**Revision Date: January 2nd 2022

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : PROPYLENE GLYCOL INDUSTRIAL PINK
CAS Number: 57-55-6 Chemical characterization : Glycols Chemical Name : 1,2-Propanediol Synonyms : Propylene Glycol, 1,2-Propanediol, 1,2-Dihydroxypropane,

Monopropylene Glycol

Use of the Substance/Mixture

1 / 13 : Manufacture of substances, Formulation & (re)packing of

substance and mixtures, Uses in Coatings, Use in Cleaning Agents, Use as binders and release agents, Agrochemical uses, Functional Fluids, De-icing and anti-icing applications, Other consumer uses, Use in laboratories, Manufacture of rubber products, Polymer production, Water treatment chemicals, Mining chemicals

Recommended restrictions on use

: For industrial use only., This product is Not for Human

Consumption.

Emergency telephone : CHEMTREC USA 800-424-9300

**SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification

Not classified as hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

Label elements

Not classified as hazardous according to OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

Other hazards

No additional information available.

**SECTION 3. Composition/information on ingredients**

Substances

Chemical nature : Substance

Ingredients

Chemical Name CAS-No.

EC-No.

2 / 13

Weight % Component

Type Propylene Glycol 57-55-6 >= 99.0 % A

Key: (A) Substance

**SECTION 4. FIRST AID MEASURES**

First aid procedures

General advice : May cause irritation of the eyes, skin and mucous

membranes. Always observe self-protection methods Move out of dangerous area. Remove contaminated shoes and clothing. Show this material safety data sheet to the doctor in attendance.

If inhaled : Remove to fresh air.

In the case of inhalation of aerosol/mist consult a physician if necessary. Not expected to present a significant inhalation hazard under anticipated conditions of normal use. Avoid inhalation of hot vapors or extremely high concentrations of aerosols.

In case of skin contact : Wash skin thoroughly with mild soap and water.

In case of eye contact : Flush eyes with water thoroughly and continuously for 15

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a specialist.

If swallowed : Not expected to present a significant ingestion hazard under

anticipated conditions of normal use.

Notes to physician

Symptoms : High doses may cause CNS depression (fatigue, dizziness

and possibly loss of concentration, with collapse, coma and death in cases of severe over-exposure).

Hazards : This product is of low acute toxicity.

May cause irritation of the eyes, skin and mucous membranes. Hot vapors may cause lung damage.

Treatment : Treat symptomatically.

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

**SECTION 5. FIRE-FIGHTING MEASURES**

Flammable properties

Flash point : 219 °F (104 °C)

at 1000.010 hPa (750.071 mm Hg)

Autoignition temperature : > 752 °F (400 °C)

at 1000.10 - 1014.40 hPa (750.14 - 760.86 mm Hg)

Lower explosion limit : ~2.4 vol%

Upper explosion limit : ~17.4 vol%

Fire fighting

Suitable extinguishing media : SMALL FIRE: Use dry chemicals, CO2, water spray or

alcohol-resistant foam. LARGE FIRE: Use water spray, water fog or alcohol-resistant foam.

Unsuitable extinguishing media

3 / 13 : Do not use solid water stream.

Protective equipment and precautions for firefighters

Specific hazards during fire fighting

: Heat from fire can generate flammable vapor.

When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapor source. Fine sprays/mists may be combustible at temperatures below normal flash point. Fight fire from a safe distance/protected location. Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of burns/injuries. Use water spray/fog for cooling. Avoid frothing/steam explosion.

Although water soluble, may not be practical to extinguish fire by water dilution. Notify authorities immediately if liquid enters sewer/public waters.

Refer to NFPA Code 13 for guidance in using propylene glycol in sprinkler system applications.

Special protective equipment for fire-fighters

4 / 13 : Wear positive pressure self-contained breathing apparatus

(SCBA). Structural firefighter’s protective clothing will only provide limited protection.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Environmental precautions : Try to prevent the material from entering drains or water

courses.

Methods for containment / Methods for cleaning up

: Extinguish ignition sources; stop release; prevent flow to

sewers or public waters. Notify fire and environmental authorities. Impound/recover large land spill; soak up small spill with inert solids. Soak up small spills with inert solids. Use suitable disposal containers. On water, material is soluble and may float or sink. Contain/collect rapidly to minimize dispersion. Disperse residue to reduce aquatic harm. Report per regulatory requirements.

**SECTION 7. HANDLING AND STORAGE**

Handling

Advice on safe handling : Handle empty containers with care - residue can burn heated. Empty containers should be thoroughly rinsed with copious amounts of clean water. The rinse water can be used for makeup water for any necessary dilution of the concentrated product before use, or it can be properly discarded.

Advice on protection against fire and explosion

: Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers

: Handle empty containers with care - residue may be

combustible. Empty containers should be thoroughly rinsed with copious amounts of clean water.

The rinse water can be used for makeup water for any necessary dilution of the concentrated product before use, or it can be properly discarded.

Advice on common storage : Carbon/Mild steel with suitable internal coating, or stainless

steel

Other data : No decomposition if stored and applied as directed.

**8. Exposure controls/personal protection**

Control parameters

Ingredients with workplace control parameters

Consult local authorities for acceptable exposure limits.

Exposure controls

Engineering measures

No special ventilation is recommended under anticipated conditions of normal use beyond that needed for normal comfort control.

Personal protective equipment

Respiratory protection : No special respiratory protection equipment is recommended

under anticipated conditions of normal use.

Hand protection : Not normally considered a skin hazard.

Use chemical resistant gloves appropriate to conditions of use. Wear chemical resistant gloves such as: Nitrile rubber Latex

Eye and face protection : Use splash goggles when eye contact due to splashing or

spraying liquid is possible.

Skin and body protection : No special clothing/skin protection equipment is

recommended under normal conditions of anticipated use. Where use can result in skin contact, practice good personal hygiene.

Hygiene measures : Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Take off contaminated clothing and wash before reuse.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

Physical state : liquid at 68 °F (20 °C) (1,013.25 hPa (760.00 mm Hg))

Color : Pink.

Odor : Little or no odor.

Safety data

Flash point : 219 °F (104 °C)

at 1000.010 hPa (750.071 mm Hg)

Lower explosion limit : ~2.4 vol%

Upper explosion limit : ~17.4 vol%

Flammability (solid, gas) : not applicable

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Autoignition temperature : > 752 °F (400 °C)

at 1000.10 - 1014.40 hPa (750.14 - 760.86 mm Hg)

Decomposition temperature : not determined

pH : no data available

Melting point/range : < -4 °F (-20 °C)

Boiling point/boiling range : 363 °F (184 °C)

at 1003.20 hPa (752.46 mm Hg)

Vapor pressure : 0.2 hPa (0.2 mm Hg)

at 77 °F (25 °C)

Density : 1.03 g/cm3

at 68 °F (20 °C)

Water solubility : at 68 °F (20 °C)

Miscible in water.

Partition coefficient: n- octanol/water

7 / 13 : log Pow: -1.07

at 68.9 °F (20.5 °C)

Viscosity, kinematic : 42.1 mm2/s

at 77 °F (25 °C)

Relative vapor density : no data available

Surface tension : 71.6 mN/m

1.01g/l at 70.7 °F (21.5 °C)

Explosive properties : Not explosive

Remarks - Other information : No additional information available.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under recommended storage conditions.

Conditions to avoid : High temperatures, oxidizing conditions.

May degrade when exposed to light or other radiation sources.

Materials to avoid : Reacts with strong oxidizing agents.

Strong acids. Isocyanates.

Hazardous decomposition products

: Carbon Monoxide and other toxic vapors.

Thermal decomposition : Incomplete combustion may produce carbon monoxide and

other toxic gases.

Hazardous reactions : Not expected to occur.

This material is stable when properly handled and stored.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Product Summary : The below given information is based on the assessment of

the product including impurities.

Acute toxicity

Acute oral toxicity : Based on acute toxicity values, not classified.

: LD50 Oral: 22,000 mg/kg

Species: rat

Acute inhalation toxicity : Based on acute toxicity values, not classified.

: LC50 (Inhl): > 317 mg/l

Exposure time: 2 HOURS Species: rabbit

Acute dermal toxicity : Based on acute toxicity values, not classified.

: LD50 Dermal: > 2,000 mg/kg

Species: rabbit

Skin corrosion/irritation : Based on skin irritation values, not classified.

May cause slight transient skin irritation.

Serious eye damage/eye irritation

8 / 13 : Based on eye irritation values, not classified.

May produce minimal, fully reversible eye irritation.

Respiratory or skin sensitization

: Respiratory sensitization

Not classified no data available

: Skin sensitization

Not classified Skin reactions of unknown etiology have been described in some hypersensitive individuals following topical application.

Chronic toxicity

Carcinogenicity : Not classified

No adverse effect observed.

Germ cell mutagenicity : Not classified

No adverse effect observed.

Reproductive toxicity

Effects on fertility / Effects on or via lactation

No adverse effect observed.

Effects on Development : Not classified

No adverse effect observed.

Target Organ Systemic Toxicant - Single exposure

: Based on single exposure toxicity values, not classified.

Target Organ Systemic Toxicant - Repeated exposure

: Based on repeated exposure toxicity values, not classified.,

Propylene glycol is of low inherent toxicity in rats and dogs after repeated oral exposure, while cats show species-specific hematological changes in red blood cells (other tissues unremarkable). Rats exposed repeatedly to high aerosol concentrations exhibited signs consistent with irritation of the eyes and nasal mucosa but showed no evidence of systemic toxicity.

Aspiration hazard : Based on physico-chemical values or lack of human evidence,

not classified.

**12. ECOLOGICAL INFORMATION**

Ecotoxicology Assessment

Acute aquatic toxicity : Based on acute aquatic toxicity values, not classified.

Chronic aquatic toxicity : Not classified, based on readily biodegradability and low acute

toxicity.

Toxicity to fish :

Low acute toxicity to fish

Toxicity to daphnia and other aquatic invertebrates

: Low acute toxicity to aquatic invertebrates.

Toxicity to algae : Low toxicity to algae.

Toxicity to bacteria : Low toxicity to sewage microbes.

Toxicity to fish (Chronic toxicity)

10 / 13 : No study available.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

: Low chronic toxicity to aquatic invertebrates.

Persistence and degradability

Biodegradability : Rapidly degradable.

: 72 - 100 %

(After 28 days in a ready biodegradability test)

Bioaccumulative potential

Bioaccumulation : This material is not expected to bioaccumulate.

Mobility in soil

Surface tension : 71.6 mN/m

1.01g/l at 21.5 °C

Distribution among environmental compartments

: Stability in soil

Low potential for soil adsorption expected

: Stability in water

Hydrolytically stable. Molecular structure includes no hydrolysable functional groups.

Additional advice Environmental fate and pathways

: No additional information available.

Results of PBT and vPvB assessment

Not applicable.

Other adverse effects

Additional ecological information

: No additional information available.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Further information : Comply with federal, state, or local regulations for disposal.

Landfill solids at permitted sites.

Burn concentrated liquids, diluting with clean, low viscosity fuel. Avoid flameouts and assure that emissions comply with all applicable standards/regulations. Dilute aqueous waste may biodegrade. Assure effluent complies with applicable regulations.

**SECTION 14. TRANSPORT INFORMATION**

Not regulated for transport

**SECTION 15. REGULATORY INFORMATION**

If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

SARA 302/304 This product contains no known chemicals regulated under SARA 302/304.

SARA 311/312 Based upon available information, this material is not classified as a health and/or physical hazard according to Section 311 & 312.

SARA 313 This product contains no known chemicals regulated under SARA 313.

State Repor

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Updates made in accordance with implementations of GHS requirements.

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