



# SAFETY DATA SHEET

According to Safe Work Australia

May 10 2021

## 1. IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** Long Life Inhibited Propylene Glycol - Food Grade

**Other Means of Identification:** Mixture

**Other Name:** Bracton Long Life Glycol

**Recommended Use of the Chemical and Restriction on Use:** Cooling of refrigeration systems

**Details of Manufacturer or Importer:**

Bracton Industries (NSW) Pty Ltd  
50 Chard Rd  
Brookvale NSW 2100

**Phone Number:** 02 9938 1800

**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 2. HAZARDS IDENTIFICATION

**Hazardous Nature:**

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

The product is not classified according to the Globally Harmonised System (GHS).

**Signal Word** Void

**Hazard Statements** Void

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

**Chemical Characterization:** Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

**Hazardous Components:**

57-55-6	1,2-Propanediol	>60%
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## 4. FIRST AID MEASURES

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

**Ingestion:**

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek medical attention.

**Symptoms Caused by Exposure:**

Inhalation: Inhalation may cause Central Nervous System (CNS) depression, headache, nausea, vomiting, irritation, dizziness and unconsciousness.

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation, tearing and redness.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting, diarrhoea, headache, CNS depression and

(Contd. on page 2)

# SAFETY DATA SHEET

According to Safe Work Australia

May 10 2021

**Product Name:** Long Life Inhibited Propylene Glycol - Food Grade

(Contd. of page 1)

pulmonary oedema. Large doses may be fatal.

## 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Water fog or fine spray, alcohol-resistant foam or dry agents.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon, propionaldehyde, lactic acid, pyruvic acid and acetic acid.

Combustible Liquid Class 1

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

## 6 . ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal. Small spills can be mopped up, diluting with plenty of water.

## 7 . HANDLING AND STORAGE

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. protect from heat, sparks, open flames, hot surfaces and direct sunlight. Protect containers from physical damage. Keep away from oxidising agents, acid chlorides, acid anhydrides, chloroformates, hydrofluoric acid, nitric acid, reducing agents and silver nitrate.

## 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Standards:**

**57-55-6 1,2-Propanediol**

WES	TWA: 474* 10** mg/m <sup>3</sup> , 150* ppm *vapour & particulates;**particulates only
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**Engineering Controls:**

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

**Respiratory Protection:**

(Contd. on page 3)

# SAFETY DATA SHEET

## According to Safe Work Australia

May 10 2021

**Product Name:** Long Life Inhibited Propylene Glycol - Food Grade

(Contd. of page 2)

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

### Skin Protection:

Impervious gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

### Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

### Appearance:

<b>Form:</b>	Liquid
<b>Colour:</b>	Pink
<b>Odour:</b>	Almost odourless
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	About neutral
<b>Melting point/Melting range:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	189 °C
<b>Flash Point:</b>	~99 °C (Closed Cup)
<b>Flammability:</b>	Combustible Liquid Class 1
<b>Auto-ignition Temperature:</b>	371 °C
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	2.6 Vol %
<b>Upper:</b>	12.6 Vol %
<b>Vapour Pressure at 20 °C:</b>	0.106 hPa
<b>Density:</b>	1.04 g/cm <sup>3</sup>
<b>Vapour Density:</b>	2.62
<b>Evaporation Rate:</b>	0.005 (n-butyl acetate = 1)
<b>Solubility in Water:</b>	Miscible with water.
<b>Viscosity:</b>	Slightly viscous.
<b>% Volatiles by Volume:</b>	~5 % (as water)
<b>VOC:</b>	Negligible.

## 10 . STABILITY AND REACTIVITY

### Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.  
Contact with strong oxidising agents may cause fire.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** Heat, sparks, open flames, hot surfaces and direct sunlight.

(Contd. on page 4)

# SAFETY DATA SHEET

According to Safe Work Australia

May 10 2021

**Product Name:** Long Life Inhibited Propylene Glycol - Food Grade

(Contd. of page 3)

**Incompatible Materials:**

Oxidising agents, acid chlorides, acid anhydrides, chloroformates, hydrofluoric acid, nitric acid, reducing agents and silver nitrate.

**Hazardous Decomposition Products:**

Oxides of carbon, propionaldehyde, lactic acid, pyruvic acid and acetic acid.

## 11 . TOXICOLOGICAL INFORMATION

**Toxicity:**

**LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:**

**57-55-6 1,2-Propanediol**

Oral	LD <sub>50</sub>	22000 mg/kg (mouse)
	LD <sub>50</sub>	20000 mg/kg (rat)
Dermal	LD <sub>50</sub>	20800 mg/kg (rabbit)

**Acute Health Effects**

**Inhalation:**

Inhalation may cause Central Nervous System (CNS) depression, headache, nausea, vomiting, irritation, dizziness and unconsciousness.

**Skin:** May cause skin irritation.

**Eye:** May cause eye irritation, tearing and redness.

**Ingestion:**

May cause gastrointestinal irritation, nausea, vomiting, diarrhoea, headache, CNS depression and pulmonary oedema. Large doses may be fatal.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:**

Repeated or prolonged skin exposure may cause defatting, drying, tenderness and flaking. Chronic ingestion may cause lactic acidosis and seizures. May cause damage to spleen, kidneys, liver and brain.

**Existing Conditions Aggravated by Exposure:** No information available

**Additional toxicological information:** No information available

## 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:** No further relevant information available.

**Aquatic toxicity:** No further relevant information available.

(Contd. on page 5)

# SAFETY DATA SHEET

## According to Safe Work Australia

May 10 2021

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(Contd. of page 4)

**Persistence and Degradability:** No further relevant information available.

**Bioaccumulative Potential:** No further relevant information available.

**Mobility in Soil:** This product is readily transported by water.

**Other adverse effects:** No further relevant information available.

### 13 . DISPOSAL CONSIDERATIONS

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

### 14 . TRANSPORT INFORMATION

**UN Number** Not regulated

**Proper Shipping Name** Not regulated

**Dangerous Goods Class** Not regulated

**Packing Group:** Not regulated

### 15 . REGULATORY INFORMATION

**Australian Inventory of Chemical Substances:**

57-55-6	1,2-Propanediol
7732-18-5	Water

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Not Scheduled.

### 16 . OTHER INFORMATION

**Date of Preparation or Last Revision:** May 10 2021

**Prepared by:** Bracton Industries (NSW) Pty Ltd

**Abbreviations and acronyms:**

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds

LC<sub>50</sub>: Lethal concentration, 50 percent

LD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

#### Disclaimer

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user must review this SDS in the context of how the product will be handled in the workplace and in conjunction with other materials. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.