

# SAFETY DATA SHEET

## GLYCERINE

Preparation Date: 11/Mar/2019

### 1. IDENTIFICATION

#### Product identifier

**Product Name** GLYCERINE (BAKER B1000)

#### Other means of identification

**Synonym**..... Glycerine.

#### **Recommended Use**

Multiple uses including as emulsifier, emollient, plasticizer, humectant, sweetener, anti-freeze, in surface coatings and paints, cosmetics, drug and food products. Intermediate for making glycerol derivatives.

#### **Restricted Uses**

No information available

#### Supplier Identifier

GP Chemicals Specialty Ltd.  
10-55 West Beaver Creek Road  
Richmond Hill, ON L4B 1K5  
1-905-731-3622

#### Emergency telephone number

24 Hour Emergency Phone Number (CANUTEC): 1-888-226-8832 (1-888-CAN-UTEC)

### 2. HAZARD IDENTIFICATION

#### Hazardous Classification of the substance or mixture

none

#### Label elements

**Hazard pictograms**

None

**Hazard statements**

The mixture does not meet the criteria for classification.

**Prevention**

Wash hands thoroughly after handling

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

In case of inadequate ventilation wear respiratory protection

**Response**

Read the label and safety data sheet before use.

Flush eyes with plenty amounts of water.

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash skin with plenty of water.

If skin irritation occurs: Get medical advice/attention

Move person to fresh air.

Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

**Storage**

Store locked up

Store in accordance with good industrial practices.

**Disposal**

Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations

**Unknown acute toxicity**

No information available

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance**

Chemical Name	CAS No	Weight-%	Synonyms
Glycerine	56-81-5	80 - 100%	Glycerine

**Notes:**

The actual percentage concentration has been withheld as a trade secret.

**4. FIRST AID MEASURES****Description of first aid measures****Inhalation**

Remove to fresh air.

**Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact**

Wash skin with soap and water.

**Ingestion**

Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effects, both acute and delayed:**

May cause slight transient (temporary) eye irritation. Contact with heated material may cause thermal burns. Not expected to cause skin irritation. Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury. Mists may cause irritation of upper respiratory tract. Should not be hazard at ambient temperatures.

**Indication of any immediate medical attention and special treatment needed:**

**Note to physicians**

Treatment based on sound judgment of physician and individual reactions of patient.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Specific hazards arising from the substance or mixture**

Contact of glycerin with strong oxidizing agents such as nitric acid or other strong acids, chromium trioxide, potassium chlorate or potassium permanganate may cause an explosion.

**Hazardous combustion products**

Acrolein. Decomposition temperature: 200°C / 392 °F.

**Special protective equipment and precautions for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

**Environmental precautions**

See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

Prevent further leakage or spillage if safe to do so.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

No special handling required. Avoid direct or prolonged contact with skin and eyes. Prevent formation of mist. Eye and skin contact should be avoided if handling at elevated temperatures.

**Conditions for safe storage, including any incompatibilities**

Place away from incompatible materials. Store in clean tight containers to prevent moisture pickup from air. Store in resin-lined steel, aluminum, stainless steel, or reinforced fiberglass vessels.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

Chemical Name	Alberta OEL	British Columbia OEL	Ontario	Quebec OEL	Exposure Limit - ACGIH	Immediately Dangerous to Life or Health - IDLH
Glycerine 56-81-5	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	Not available	TWA: 10 mg/m <sup>3</sup>	Not available	Not available

Consult local authorities for recommended exposure limits

### Appropriate engineering controls

#### Engineering controls

General (mechanical) room ventilation is expected to be satisfactory.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Safety glasses with side shields or chemical goggles.

#### Hand protection

Appropriate chemical resistant gloves should be worn. Nitrile gloves. Neoprene gloves. Polyvinylchloride (PVC) gloves. Polyethylene gloves.

#### Skin and body protection

Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

#### Respiratory protection

Not normally needed. In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment with combination filter (type A2/P2).

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### Appearance

Physical state	Liquid
Color	Water white
Odor	Mild
Odor threshold	No information available

#### PROPERTIES

##### pH

#### Values

No data available

##### Melting point / freezing point

18 °C / 64 °F

##### Initial boiling point/boiling range

290 °C / 554 °F

##### Flash point

199 °C / 390 °F

##### Evaporation rate

No data available

##### Flammability (solid, gas)

No data available

##### Flammability Limit in Air

#### Remarks • Method

@ 760 mmHg

Pensky-Martens Closed Cup

None known

None known

<b>Upper flammability limit:</b>	No data available	
<b>Lower flammability limit:</b>	No data available	
<b>Vapor pressure</b>	<0.2 mmHg @ 100°C	
<b>Relative vapor density</b>	No data available	None known
<b>Specific Gravity</b>	1.26	
<b>Water solubility</b>	Miscible in water	
<b>Solubility in other solvents</b>	No data available	
<b>Partition coefficient</b>	No data available	
<b>Autoignition temperature</b>	370 °C / 698 °F	
<b>Decomposition temperature</b>	No data available	None known
<b>Kinematic viscosity</b>	1412 mPa.s @ 20°C	
<b>Dynamic viscosity</b>	No data available	None known
<b>Explosive properties</b>	No information available.	
<b>Oxidizing properties</b>	No information available.	
<b>Molecular weight</b>	No information available	
<b>VOC Percentage Volatility</b>	No information available	
<b>Liquid Density</b>	No information available	
<b>Bulk density</b>	No information available	

## 10. STABILITY AND REACTIVITY

### Reactivity/Chemical Stability

Stable under normal conditions

### Possibility of hazardous reactions

No additional remark.

### Conditions to avoid

None known based on information supplied.

### Incompatible materials

Strong oxidizing agents. Contact of glycerin with strong oxidizing agents such as Nitric Acid or other strong acids, Chromium Trioxide, Potassium Chlorate, or Potassium Permanganate may cause an explosion.

### Hazardous decomposition products

Acrolein. Decomposition temperature: 200°C / 392 °F.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Inhalation

Mists may cause irritation of upper respiratory tract. Should not be hazard at ambient temperatures.

#### Eye contact

May cause slight transient (temporary) eye irritation.

#### Skin contact

Contact with heated material may cause thermal burns. Not expected to cause skin irritation.

#### Ingestion

Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury.

### Information on toxicological effects

**Symptoms**

No information available.

**Numerical measures of toxicity****Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 12,600.00 mg/kg

ATEmix (dermal) 10,010.00 mg/kg

Unknown acute toxicity No information available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Glycerine 56-81-5	= 12600 mg/kg ( Rat )	> 10 g/kg ( Rabbit )	> 570 mg/m <sup>3</sup> ( Rat ) 1 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation**

Contact with heated material may cause thermal burns. Not expected to cause skin irritation.

**Serious eye damage/eye irritation**

May cause slight transient (temporary) eye irritation.

**Respiratory or skin sensitization**

No information available.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

No information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Glycerine 56-81-5	Not available	Not available	Not available	Not available

**Reproductive toxicity**

No information available.

**Specific target organ systemic toxicity - single exposure**

No information available.

**Specific target organ systemic toxicity - repeated exposure**

No information available.

**Aspiration hazard**

No information available.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Fish Species Data	Toxicity to microorganisms	Crustacea
Glycerine 56-81-5	Not available	51 - 57 mL/L LC50 (Oncorhynchus mykiss) 96 h static	Not available	EC50: >500mg/L (24h, Daphnia magna)

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

**Component Information**

Chemical Name	Partition coefficient
Glycerine 56-81-5	-1.76

**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Do not reuse empty containers.

**14. TRANSPORT INFORMATION**

**TDG (Canada):**

**UN Number** Not applicable  
**Shipping name** Not regulated  
**Class** Not applicable  
**Packing Group** Not applicable  
**Marine pollutant** Not available.

**DOT (U.S.)**

**UN Number** Not applicable  
**Shipping name** Not regulated  
**Class** Not applicable  
**Packing Group** Not applicable  
**Marine pollutant** Not available

**15. REGULATORY INFORMATION**

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

**U.S. Regulatory Rules**

Chemical Name	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Glycerine - 56-81-5	Not Listed	Not Listed	Not Listed

**International Inventories**

**TSCA** All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

**DSL/NDSL** All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

<b>16. OTHER INFORMATION</b>
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<b>NFPA:</b>	Health hazards 0	Flammability 1	Instability 0	<b>Physical and chemical properties -</b>
<b>HMIS:</b>	Health hazards 0	Flammability 1	Physical hazards 0	<b>Personal protection</b> X

**Legend** Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Prepared By:** The Environment, Health and Safety Department of Univar Canada Ltd.

**Preparation Date:** 11-Mar-2019

**Revision Date:** 03-Oct-2019

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**End of Safety Data Sheet**