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Rev. 5

### 1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

**Product Name:** Glycerol  
**Product Code:** IB15760 & IB15762  
**Synonyms:** GLYCERIN \* GLYCERIN, ANHYDROUS \* GLYCERINE \* GLYCERIN MIST (ACGIH, OSHA) \* GLYCERIN, SYNTHETIC \* GLYCERITOL \* GLYCYL ALCOHOL \* CLYZERIN, WASSERFREI (GERMAN) \* GROCOLENE \* MOON \* OSMOGLYN \* 1,2,3-PROPANETRIOL \* STAR \* SYNTHETIC GLYCERIN \* 90 TECHNICAL GLYCERINE \* TRIHYDROXYPROPANE \* 1,2,3- TRIHYDROXYPROPANE \*  
**Recommend Use:** For further manufacturing use only  
**Uses Advised Against:** Not for human or animal drug use  
**Company:** IBI SCIENTIFIC  
7445 Chavenelle Road  
Dubuque, IA 52002  
**Emergency Tele. Number:** 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703  
**Company Tele. Number:** 1-800-253-4942 / (001) 563-690-0484  
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### 2. HAZARDOUS IDENTIFICATION

#### GHS – Classification

**OSHA Regulatory Status:** This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)  
**Signal Word:** -  
**Appearance:** Viscous  
**Physical State:** Liquid  
**Odor:** No information available  
**Hazards not otherwise classified:** Not applicable  
**Other Information:** May be harmful if inhaled

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Name:** Glycerol  
**EC No.:** EEC No. 200-289-5  
**REACH Reg. No.:** Not Available  
**CAS No.:** 56-81-5  
**Weight %:** 95 – 100  
**Classification:** -

#### 4. FIRST AID MEASURES

<b>Eye Contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin Contact:</b>	Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes.
<b>Inhalation:</b>	Move to fresh air. If not breathing, give artificial respiration.
<b>Ingestion:</b>	Never give anything by mouth to an unconscious person. Rinse mouth.
<b>Notes to Physician:</b>	Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

<b>Flammable Properties:</b>	Not flammable
<b>Flash Point:</b>	Not determined
<b>Suitable Extinguishing Media:</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Hazardous Combustion Products:</b>	Carbon oxides
<b>Explosion Data</b>	
Sensitivity to Mechanical Impact:	Not sensitive
Sensitivity to Static Discharge:	Not sensitive
<b>Protective Equip. &amp; Precautions for Firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Ensure adequate ventilation, especially in confined areas.
<b>Environmental Precautions:</b>	See Section 12 for additional ecological information.
<b>Methods for Containment:</b>	Prevent further leakage or spillage, if safe to do so.
<b>Methods for Cleaning Up:</b>	Absorb on sand or vermiculite and place in closed containers for disposal. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Handle in accordance with good industrial hygiene and safety practice. Hygroscopic.
<b>Storage:</b>	Keep container tightly closed in a dry, cool, and well-ventilated place. Hygroscopic.
<b>Incompatible Products:</b>	Strong oxidizing agents. Strong bases.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Guidelines:</b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Chemical Name:</b>	Glycerol - #56-81-5
ACGIH TLV:	-
OSHA PEL:	-
NIOSH IDLH:	-
<b>Engineering Measures:</b>	Showers, Eyewash Stations, Ventilation Systems
<b><u>Personal Protective Equipment</u></b>	
Eye/Face Protection:	Avoid contact with eyes. Safety glasses with side-shields.
Skin & Body Protection:	Wear protective gloves/clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Viscous
<b>Odor:</b>	No information available
<b>Odor Threshold:</b>	No information available
<b>Decomposition Temp. °C:</b>	No information available
<b>Freezing Point:</b>	No information available
<b>Initial Boiling Point:</b>	No information available
<b>Physical State:</b>	Liquid
<b>pH:</b>	5.5 - 8
<b>Flash Point:</b>	160°C / 320°F
<b>Autoignition Temp. °C:</b>	369°C / 698°F
<b>Boiling Point/Range:</b>	182°C / 360°F
<b>Melting Point/Range:</b>	20°C / 68°F
<b>Flammability Limits (Air):</b>	<u>Upper</u> -No data available * <u>Lower</u> -No data available
<b>Explosion Limits</b>	No information available
<b>Explosive Properties:</b>	No information available
<b>Oxidizing Properties:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>MMHG @ 37.8°C:</b>	No data available
<b>Density:</b>	3.1
<b>Specific Gravity:</b>	1.261
<b>Water Solubility:</b>	No data available
<b>Solubility in other solvents:</b>	No data available
<b>Partition Coefficient (n-octanol/water):</b>	No data available
<b>Viscosity:</b>	No information available

### 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under recommended storage conditions
<b>Possibility of Hazardous Reactions:</b>	None under normal processing
<b>Incompatible Products:</b>	Strong oxidizing agents. Strong bases.
<b>Conditions to Avoid:</b>	Extremes of temperature and direct sunlight.
<b>Hazardous Decomposition Products:</b>	None known based on information supplied.
<b>Hazardous Polymerization:</b>	Hazardous polymerization does not occur.

### 11. TOXICOLOGICAL INFORMATION

#### **Information on likely routes of exposure**

Product Information:

Inhalation:	There is no data available for this product
Eye Contact:	There is no data available for this product
Skin Contact:	There is no data available for this product
Ingestion:	There is no data available for this product

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

**Information on toxicological effects**

Symptoms: No information available.

**Delayed and immediate effects as well as chronic effects from short and long term exposure**

Sensitization: No information available  
 Mutagenic Effects: No information available  
 Carcinogenicity: No information available  
 Chemical Name: Glycerol - #56-81-5  
 ACGIH: -  
 IARC: -  
 NTP: -  
 OSHA: -

**Reproductive Toxicity:** No information available  
**STOT – single exposure:** No information available  
**STOT – repeated exposure:** No information available  
**Aspiration Effects:** No information available

**Numerical measures of toxicity – Product Information**

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

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:** 0% of mixture consists of component(s) of unknown hazards to aquatic environment

Chemical Name: Glycerol - #56-81-5  
 Toxicity to Algae: -  
 Toxicity to Fish: LC50 static = 51–57ml/L *Oncorhynchus mykiss* (96h)  
 Daphnia Magna (Water Flea): EC50 = 500mg/L *Daphnia magna* (24h)

**Persistence and Degradability:** No information available  
**Bioaccumulation/Accumulation:** No information available

Chemical Name: Glycerol - #56-81-5  
 Low Pow: -1.76

**Other Adverse Effects:** No information available

**13. DISPOSAL CONSIDERATIONS**

**Water Disposal Method:** Dispose of material in accordance with all federal, state, and local regulations.

**Contaminated Packaging:** Do not re-use empty containers.

Chemical Name: Glycerol - #56-81-5  
 RCRA – Halogenated Organic Compounds: -  
 RCRA – P Series Wastes: -  
 RCRA – F Series Wastes: -  
 RCRA – K Series Wastes: -

Chemical Name: Glycerol - #56-81-5  
 California Hazardous Waste Status: -

**14. TRANSPORT INFORMATION**

**IATA**  
 Not regulated

**US DOT**  
 Not regulated

**15. TOXICOLOGICAL INFORMATION**

**International Inventories**

TSCA:	Complies
DSL/NDSL:	Complies
EINECS/ELINCS:	Complies
ENCS:	Complies
IECSC:	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

**Legend:**

TSCA:	United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL:	Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS:	European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS:	Japan Existing and New Chemical Substances
IECSC:	China Inventory of Existing Chemical Substances
KECL	Korean Existing and Evaluated Chemical Substances
PICCS	Philippines Inventory of Chemicals and Chemical Substances
AICS	Australian Inventory of Chemical Substances

**U.S. Federal Regulations**

**SARA 313**

Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain a chemical or chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

**SARA 311/312 Hazard Categories**

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name:	Glycerol - #56-81-5
CWA – Reportable Quantities:	-
CWA – Toxic Pollutants:	-
CWA – Priority Pollutants:	-
CWA – Hazardous Substances:	-

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name:	Glycerol - #56-81-5
Hazardous Substances RQs:	-
Extremely Hazardous Substances RQs:	-
RQ:	-

**U.S. State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

Chemical Name:	Glycerol - #56-81-5
California Prop. 65:	-

**U.S. Right-to-Know Regulations**

Chemical Name: Glycerol - #56-81-5  
New Jersey: X  
Massachusetts: X  
Pennsylvania: X

**U.S. EPA Label Information**

**EPA Pesticide Registration #:** Not applicable.

**Canada** No information available

**WHMIS Hazard Class**

Non-controlled

**16. OTHER INFORMATION**

**Issuing Date:** 29-Dec-1997

**Revision Date:** 6-July-2018

**Revision Note:** Updated address and logo

**Recommended Restrictions:** No information available

**Disclaimer:** The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal, and release; and is not to be considered as 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 material or in any process, unless specified in the test.

**End of Safety Data Sheet**