
 SITARA CHEMICAL INDUSTRIES LTD	SAFETY DATA SHEET (SDS)	
	GLYCERIN	
	Document #: SCIL-SDS-01	Issue Date: 01-Jan-24
	Revision: 0	Next Rev: 31-Dec-26

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SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF SUPPLIER
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Material name Glycerin
Synonym(s) Trade Name
Supplier: Sitara Chemical Industries Ltd.
Address: 32-K.M, Sheikhupura Road, Faisalabad
Telephone Number: (+92)041-4689141-5
Emergency Number (+92)041-4689141-5 (Ext.1161)
Website <http://www.sitara.com.pk>

SECTION 2. HAZARDS IDENTIFICATION

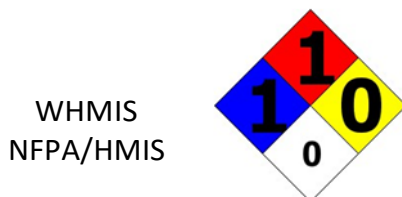
Classification of the substance or mixture:

Not classified for physical or health hazards under GHS.

Hazard statements:

Precautionary statements:

Other Non-GHS Classification:



NFPA SCALE (04)

Health	1
Flammability	1
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (04)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:		
CAS 56-81-5	Glycerin	>99 %
Percentages are by weight		

SECTION 4. FIRST-AID MEASURES

Description of first aid measures


When inhalation: Move exposed to fresh air. Loosen clothing as necessary. Give artificial respiration if necessary. Get medical assistance if cough or other symptoms appear.

When in contact with skin:

Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned.

When in contact with eyes:

Rinse or flush exposed eye gently using water for 15-20 minutes. Remove contact

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lenses while rinsing. Seek medical attention if irritation persists or if concerned.

When ingested:

Rinse mouth thoroughly. Do not induce vomiting. Seek medical attention if irritation, discomfort, or vomiting persists. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed:

Irritation, Headache, Nausea, Shortness of breath.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents:

Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture: Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment: Wear protective eye ware, gloves, and clothing.

Additional information (precautions): Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

SECTION 6. ACCIDENT RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear safety goggles and other Personal Protective Equipment. Ensure adequate ventilation.


Environmental precautions: Prevent from reaching drains, sewer, or waterway. Should not be released into environment.

Methods and material for containment and cleaning up:

Wear protective gloves, eyeware, and clothing. Always obey local regulations. Containerize for disposal. Absorb with suitable material. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Do not eat, drink, smoke, or use personal products when handling chemical substances.

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Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

SECTION 8. EXPOSURE CONTROLS /PERSONAL PROTECTION



Control Parameters:

56-81-5, Glycerol, OSHA PEL TWA 15 mg/m³

56-81-5, Glycerol, ACGIH TLV TWA 10 mg/m³

Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above

Respiratory protection:

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

Protection of skin:

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.


Eye protection:

Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.

General hygienic measures:

Perform routine housekeeping. Wash hands before breaks and at the end of work. Avoid contact with skin, eyes, and clothing. Before wearing wash contaminated clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance (physical state, color):	Clear viscous liquid	Explosion limit lower:	2.7 %
		Explosion limit upper:	19.9 %
Odor:	Faint odor	Vapor pressure:	0.003 mbar @ 50°C
Odor threshold:	Not determined	Vapor density:	Not determined
pH-value:	5.5 - 8	Relative density:	1.25 g/mL
Melting/Freezing point:	20 °C (68 °F)	Solubilities:	miscible in water
Boiling point/Boiling range:	182 °C (360 °F)	Partition coefficient (n-Octanol / water):	Not determined
Flash point (closed cup):	160 °C (320 °F)	Auto / Self-ignition temperature:	Not determined
Evaporation rate:	Not determined	Decomposition temperature:	>260°C
Flammability (solid, gaseous):	Not determined	Viscosity:	a. Kinematic: Not determined b. Dynamic: Not
Density: 3.18			

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Nonreactive under normal conditions.

Chemical stability: Stable under normal conditions.

Possible hazardous reactions: None under normal processing.

Conditions to avoid: Excess heat. Exposure to moist air or water. Incompatible materials.

Incompatible materials: Strong oxidizing agents. Strong Bases.

Hazardous decomposition products: Oxides of carbon and irritating and toxic gases/fumes

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:		
Oral:	Glycerol	LD50 Rat: 12,600 mg/kg
Inhalation:	Glycerol	LD50 Rat: 570 mg/m3/1hr
Chronic Toxicity: No additional information.		
Corrosion Irritation:		



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Dermal:	Glycerol	Rabbit: Mild Skin Irritation - 24 h
Ocular:	Glycerol	Rabbit: Mild Eye Irritation - 24 - h
Sensitization:	No additional information.	
Single Target Organ (STOT):	No additional information.	
Numerical Measures:	No additional information.	
Carcinogenicity:	Not listed as a carcinogen (ACGIH, IARC, NTP): Glycerol	
Mutagenicity:	No additional information.	
Reproductive Toxicity:	No additional information.	

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Persistence and degradability:	Readily biodegradable
Bioaccumulative potential:	Not Bioaccumulative.
Mobility in soil:	Aqueous solution has high mobility in soil.
Other adverse effects:	None identified.

SECTION 13. DISPOSAL CONSIDERATIONS


Waste disposal recommendations:

Disposal method is in accordance with all applicable national environment laws and regulation. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14. TRANSPORT INFORMATION

UN-Number:	Not Regulated.
UN proper shipping name	Not Regulated.
Transport hazard class (es)	
Packing group:	Not Regulated
Environmental hazard:	Transport in bulk: Special precautions for user

SECTION 15. REGULATORY INFORMATION

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United States (USA)

SARA Section 311/312 (Specific toxic chemical listings): Chronic
SARA Section 313 (Specific toxic chemical listings): None of the ingredients is listed
RCRA (hazardous waste code): None of the ingredients is listed
TSCA (Toxic Substances Control Act): All ingredients are listed.
CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):
 None of the ingredients is listed

Proposition 65 (California):

Chemicals known to cause cancer: None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females:
 None of the ingredients is listed
Chemicals known to cause reproductive toxicity for males:
 None of the ingredients is listed
Chemicals known to cause developmental toxicity:
 None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL): All ingredients are listed.
Canadian NPRI Ingredient Disclosure list (limit 0.1%): None of the ingredients is listed
Canadian NPRI Ingredient Disclosure list (limit 1%): None of the ingredients is listed

SECTION 16. OTHER INFORMATION

The SDS has been reformatted and updated in accordance to Globally Harmonized System (GHS) Guidelines. This is to be used as reference and guidance purposes only. No responsibilities are accepted for accuracy of information contained in the text. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

SECTION 17. EFFECTIVE DATE & REVIEW OF SAFETY DATA SHEET

This Review of Safety Data Sheet will remain effective till **31/12/2026**; thereafter, HOD of Lab will review / update and send to ISO Secretariat for its revised issue, till the time fresh Safety Data Sheet is not approved, the present SDS shall continue to be applicable.