VVF(India)Limited

VVF(India) Limited

Address: 109, Sion (East), Mumbai 400 022, India Telephone: 91-22-40282000; Fax: 91-22-24073771 Website: www.vvfltd.com; E-mail: doy@vvfltd.com

MATERIAL SAFETY DATA SHEET

Product Name: Glycerine CP / Glycerine JP /	Glycerine BP/ Glycerine IP / Glycerine USP
Version: 2.00	Date: 25 May 2013

1. CHEMICAL PRODUCT IDENTIFICATION	
1.1 Product Name	Glycerol / Glycerine
1.2 Common Chemical Name	Glycerol / Glycerine
1.3 Product Code (Supplier)	Glycerol / Glycerine CP / Glycerine JP / Glycerine BP/
	Glycerine IP / Glycerine USP

2. COMPOSITION / INFORMATION ON INGREDIENTS	
2.1 Chemical Characterization (Substance)	Glycerol, Glycerine, 1,2,3-
	Propanetriol
2.2 CAS Number	56-81-5
2.3 EINECS Number	200-289-5
2.4 Formula	$C_3H_8O_3$

3. HAZARD IDENTIFICATION		
3.1 Environmental Hazards	Product is biodegradable	
3.2 Human Health Hazards, Effects and Symptoms:		
3.2.1 Ingestion	Harmful only in large quantity	
3.2.2 Inhalation	Presence of mist or vapours respiratory track may	
experience irritation		
3.3.3 Skin Contact	Not irritant, Avoid heated product	
3.3.4 Eye Contact	Not irritant. Avoid heated product	

4. FIRST AID MEASURES	
4.1 Inhalation	Take affected person into open air
4.2 Skin Contact	Remove contaminated clothing and wash thoroughly
	with soap and water
4.3 Swallowing	Don't give anything through mouth and seek medical
	attention
4.4 Eye Contact	Immediately flush eyes with a direct stream of water
	for at least 15 min. and seek medical attention
Notes to Doctor: There is no antidote. Use supportive care	

5. FIRE FIGHTING MEASURES	
5.1 Extinguishing Media	
a. Suitable	Water fog, alcohol resistant foam, carbon dioxide
b. Not Suitable	Not available
c. Special Fire Fighting	In case of high temperature or fire, use a water
Procedures	jet to cool the tank containing the product



5. FIRE FIGHTING MEASURES	
5.2 Unusual Fire or Explosion Hazards	Avoid contact of glycerine with of glycerine with strong oxidizing agents, mineral acid as the same may cause explosion.
5.3 Hazardous Thermal Decomposition	At high temp. it decomposes and may form a corrosive gas 'acrolein'
5.4 Protection for Fire-Fighters	Wear self-contained breathing apparatus and protective clothing to avoid direct contact with eyes and skin

6. ACCIDENTAL RELEASE MEASURES	
6.1 Personal Precautions	Wear personal protection gear. Observe all Standard
	Industry Measures
6.2 Environmental Precautions	In case of spillage, cover the spilt amount with sand or soil to absorb the product. Then, collect the sand or soil with the product absorbed into a suitable container and dispose. Prevent entry of product into drains and ground water
6.3 Clean Up Method	Cover the product with dry earth or sand so that it may be absorbed. Then, transfer into a container for disposal. Flush affected area with water & detergent

7. HANDLING AND STORAGE	
7.1 Handling	Follow good hygiene and safety procedures. Avoid any
	direct eye &/or skin contact with the product. Wash
	hands with soap and water after handling the product.
7.2 Storage	Store in sealed containers in a cool and dry place,
	away from heat, strong acids and oxidising agents
7.3 Suitable Packing Materials	Stainless steel, HM-HDPE drums and Lacquer coated
	drums.
7.4 Unsuitable Packing Material	Unlined MS drums

8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
8.1 Ventilation / Engineering Controls	Use adequate ventilation to keep airborne
	Concentration low. Avoid inhalation of vapour
8.2 Respiratory Protection	No protection required when adequate ventilation is available at room temperature. In presence of mist or vapour use self-contained NIOSH/MSHA approved respirator
8.3 Skin Protection	Use Uniform, apron and rubber boots
8.4 Eye Protection	Use goggles or face mask
8.5 Other Protective Equipment	Use safety shoes

9. PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Molecular Weight	92
9.2 Specific Gravity	1.2607gm/cc at 25 ^o C
9.3 Gas Density	Not available
9.4 Liquid Density	Not available
9.5 Vapour Pressure	Not available



9. PHYSICAL AND CHEMICAL PROPERTIES	
9.6 Solubility in Water	Soluble in water
9.7Percent Volatiles by Volume	Not available
9.8Evaporation rate	Not available
9.9pH	Neutral
9.10 Sublimation point	Not available
9.11Appearance, Odour and State	Clear colorless liquid slight characteristic odor
9.12 Flash point and Method	>198.9°c PMCC

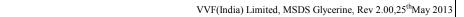
10 STABILITY AND REACTIVITY		
10.1 Chemical Stability	Stable under normal operational conditions	
10.2 Conditions to Avoid	Sources of heat, ignition and flames, moisture	
10.3 Materials to Avoid	Strong acids and oxidising agents	
10.4 Hazardous Polymerisation Products	None	
10.5 Hazardous Decomposition Products	Release corrosive gas acrolein at high	
	temperature	

11. TOXICOLOGICAL INFORMATION		
11.1 Acute Toxicity		
a. Oral (LD50) (Rat)	17000 – 27200 mg/kg	
b. Dermal (LD50) (Rabbit)	Not available	
c. Inhalation (LC50)	Not available	
d. Skin Irritation	Not irritation	
e. Eye Irritation	Not irritating	
f. Carcinogenicity	Not reported	

12. ECOLOGICAL INFORMATION			
12.1 Comm	nent	Readily biodegradable (OECD 301)	
12.2 Eco-T	oxicity	Data not available	

13. DISPOSAL CONSIDERATIONS		
13.1 Waste Disposal Method	Reprocess or dispose off in accordance with local, state	
	and federal regulation in an approved area.	

14.TRANSPORT INFORMATION		
14.1 UN Number	-	
14.2 Land Road / Railway		
14.21 ADR/RID Class	Chemicals N. O. S. (non regulated)	
14.22 ADR/RID Item Number	Chemicals N. O. S. (non regulated)	
14.3 Inland Waterways		
14.31 ADNR Class	Chemicals N. O. S. (non regulated)	
14.4 Sea		
14.41 IMDG Class	Chemicals N. O. S. (non regulated)	
14.42 IMDG Page Number	Chemicals N. O. S. (non regulated)	
14.5 Air		
14.51 IATA-DGR Class	Chemicals N. O. S. (non regulated)	
14.6 National Transport Regulations	Chemicals N. O. S. (non regulated)	



15. REGULATORY INFORMATION		
15.1 EEC Regulations	This product is not classified as dangerous according to EEC directive	
15.2 Inventory status	AUSTR, CHINA, EINECS, DSL, JAPAN, KOREA, PHIL, New Zealand, TSCA and Switzerland	
15.2 Others	According to available data, the product is not regulated. However, one should observe prescribed federal, state and local measures while dealing with chemicals	

16. OTHER INFORMATION				
16.1 REACH pre-registration no :		05-2116454366-41-0000		
16.2 Legend N.A.		N.A. =Not applicable; N.Av.= Not available		
16.3 History				
a. Date of first issue		July 20, 2004		
b. Date of last issue May 2		May 25, 2009	May 25, 2009	
c. Date of current issue		May 25, 2013	Version: 2.00	
MSDS Authorised By		Dr. Kashinath Pandit		

Warning: The information given in this MSDS has been compiled from sources which are considered by us as latest, accurate, and dependable. However, VVF(India) Limited expresses no warranty or guarantee of any kind, with respect to any damages or injuries arising out of use of this material alone or other wise and the correctness of the data presented. VVF(India) Limited assumes no responsibility, whatsoever for any injury to the recipient, user, or third person for any damages resulting from use of this product, alone or with other material.