

Glycerol

BDH1172

MSDS Number

Version 1.5

Revision Date 03/19/2015

Print Date 05/08/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Glycerol	

Product Use Description	:	Solvent

Manufactured for	:	VWR International LLC Radnor Corporate Center Building One Suite 200 100 Matsonford Road Radnor PA 19087
For more information call	:	(Monday-Friday,8.00am-5:00pm) 1-800-932-5000

: 000000011695

In case of emergency call		(24 hours/day, 7 days/week)
in case of emergency can	•	1-800-424-9300(USA Only)
		For Transportation Emergencies:
		1-800-424-9300 (CHEMTREC - Domestic)
		1-613-996-6666 (CANUTEC - Canada)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form	: liquid, clear
Color	: colourless
Odor	: odourless

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Classification of the su	bstance or mixture	
Not a hazardous substan	nce or mixture.	
Precautionary statements	s : Prevention: Use personal protective equipment a	as required.
Hazards not otherwise classified	: May cause eye and skin irritation.	
Carcinogenicity		
No component of this proc anticipated carcinogen by	duct present at levels greater than or equal to 0 NTP, IARC, or OSHA.	.1% is identified as a known
CTION 3. COMPOSITION	INFORMATION ON INGREDIENTS	
CTION 3. COMPOSITION	/INFORMATION ON INGREDIENTS : C3H8O3	
Formula Chemical nature	: C3H8O3	Concentration
Formula Chemical nature	: C3H8O3 : Substance	Concentration 100.00 %
Formula Chemical nature Chemic	: C3H8O3 : Substance cal Name CAS-No. 56-81-5	
Formula Chemical nature Chemic Glycerol	: C3H8O3 : Substance cal Name CAS-No. 56-81-5	100.00 % give artificial respiration. If e oxygen as required,
Formula Chemical nature Chemic Glycerol CTION 4. FIRST AID MEA	: C3H8O3 : Substance <u>cal Name CAS-No.</u> 56-81-5 SURES : Remove to fresh air. If not breathing, g breathing is difficult, give oxygen. Use	100.00 % give artificial respiration. If e oxygen as required, nt. Call a physician. ater for at least 15 ng and shoes immediately.
Formula Chemical nature Chemic Glycerol CTION 4. FIRST AID MEA Inhalation	 : C3H8O3 : Substance <u>cal Name</u> CAS-No. 56-81-5 SURES : Remove to fresh air. If not breathing, go breathing is difficult, give oxygen. Use provided a qualified operator is preser : Wash off immediately with plenty of wominutes. Take off contaminated clothing wash contaminated clothing before resource of the second s	100.00 % give artificial respiration. If e oxygen as required, nt. Call a physician. ater for at least 15 ng and shoes immediately. e-use. Call a physician if



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		for at least 15 minutes. Call a physici persists.	ian if irritation develops or
Ingestion	:	Do not induce vomiting without medic	cal advice. Call a physician.
Notes to physician			
Treatment	:	Treat symptomatically.	
SECTION 5. FIREFIGHTING MEA	SU	RES	
Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Cool closed containers exposed to f	ire with water spray.
	:	Water spray Foam Carbon dioxide (CO2) Dry powder	
Unsuitable extinguishing media	:	Do not use a solid water stream as fire.	it may scatter and spread
	:	High volume water jet	
Specific hazards during firefighting	:	In case of fire hazardous decompos produced such as: Acrolein Carbon monoxide Carbon dioxide (CO2)	ition products may be
Special protective equipment for firefighters	:	Wear self-contained breathing appa	ratus and protective suit.
SECTION 6. ACCIDENTAL RELE	AS	E MEASURES	
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Personal precautions	:	Wear personal protective equipment. Immediately evacuate personnel to sa Keep people away from and upwind o Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and cloth	of spill/leak.
Environmental precautions	:	Prevent further leakage or spillage if s Discharge into the environment must Do not flush into surface water or sand Prevent product from entering drains. Collect contaminated fire extinguishing must not be discharged into drains.	be avoided. itary sewer system.
Methods for cleaning up	:	Ventilate the area. Contain and collect spillage with non-o materials, e.g. sand, earth, vermiculite	
		place in container for disposal accordi (see section 13).	
CTION 7. HANDLING AND S	TOF	place in container for disposal accordi (see section 13).	
Handling	-	place in container for disposal accordi (see section 13).	
	-	place in container for disposal accordi (see section 13).	ing to local regulations
Handling	:	place in container for disposal accordi (see section 13). RAGE Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Avoid breathing vapours, mist or gas.	hing.
Handling Handling Advice on protection against	:	place in container for disposal accordi (see section 13). RAGE Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clot	hing.
Handling Handling Advice on protection against fire and explosion	:	place in container for disposal accordi (see section 13). RAGE Wear personal protective equipment. Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clot	hing.



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		Containers which are opened must be ca kept upright to prevent leakage. Keep away from heat and sources of igni Keep away from direct sunlight. Protect from physical damage. Store away from incompatible substance	tion.
CTION 8. EXPOSURE CONT	ROL	S/PERSONAL PROTECTION	
Protective measures	:	Ensure that eyewash stations and safety the workstation location.	showers are close to
Engineering measures	:	Use with local exhaust ventilation. Prevent vapour buildup by providing adec and after use.	quate ventilation during
Eye protection	:	Wear as appropriate: Safety glasses with side-shields Safety goggles	
Hand protection	:	Protective gloves Gloves must be inspected prior to use. Replace when worn.	
Skin and body protection	:	Wear as appropriate: Solvent-resistant apron If splashes are likely to occur, wear: Protective suit	
Respiratory protection	:	In case of insufficient ventilation wear sui equipment. Use NIOSH approved respiratory protect	
Hygiene measures	:	When using, do not eat, drink or smoke. Wash hands before breaks and immediat product. Keep working clothes separately. Remove and wash contaminated clothing Do not swallow. Avoid breathing vapours, mist or gas.	
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Components	CAS-No.	Value	Control parameters	Upda te	Basis
Glycerol	56-81-5	PEL : Permissi ble exposure limit	15 mg/m3	02 2006	OSHA_TRANS:US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Further information	: Form of exposu	re : Total dus	t.		
Glycerol	56-81-5	PEL : Permissi ble exposure limit	5 mg/m3	02 2006	OSHA_TRANS:US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Further information	: Form of exposu	re : Respirabl	e fraction.		J
Glycerol	56-81-5	TWA : time weighted average	10 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	: Form of exposu		t.		
Glycerol	56-81-5	TWA : time weighted average	5 mg/m3	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Further information	: Form of exposu	re : Respirabl	e fraction.		
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Physical state	: liquid, clear	
Color	: colourless	
Odor	: odourless	
рН	: 6.5 - 8.5 at 50 Weight percent Note: (as aqueous solution)	
Melting point/freezing point	: 17.8 ℃	
Boiling point/boiling range	: 290 ℃	
Flash point	: 390 ºF (199 ºC) Method: closed cup	
Lower explosion limit	: 2 %(V)	
Upper explosion limit	: 11.3 %(V) Note: no data available	
Vapor pressure	: 1.33 hPa at 20 ℃(68 ℉)	
Vapor density	: 3.1 at 20 ℃ Note: (Air = 1.0)	
Density	: 1.261 g/cm3	
Water solubility	: Note: soluble	
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Ignition temperature	: 369.9 °C	
ignition temperature		
Molecular weight	: 92.11 g/mol	
ECTION 10. STABILITY AND I	REACTIVITY	
Chemical stability	: Stable under normal conditions.	
Possibility of hazardous reactions	: Hazardous polymerisation does not	occur.
Conditions to avoid	: Heat, flames and sparks. Keep away from direct sunlight. Protect from moisture.	
Incompatible materials to avoid	: Strong oxidizing agents Acetic anhydride Calcium oxychloride Chromium oxides Alkali metal hydrides	
Hazardous decomposition products	 In case of fire hazardous decompos produced such as: Acrolein Carbon monoxide Carbon dioxide (CO2) 	sition products may be
ECTION 11. TOXICOLOGICAL	INFORMATION	
Acute oral toxicity	: LD50: 17,000 - 27,200 mg/kg Species: Rat	
Acute dermal toxicity	: LD50: > 10,000 mg/kg Species: Rabbit	
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Genotoxicity in vitro	: Note: In vitro tests did not show muta	agenic effects	
SECTION 12. ECOLOGICAL INFO	RMATION		
Ecotoxicity effects			
Toxicity to fish	: static test LC50: 44,000 mg/l Exposure time: 96 h Species: Pimephales promelas (fathe	ead minnow)	
Toxicity to daphnia and other aquatic invertebrates	: LC50: > 10,000 mg/l Exposure time: 24 h Species: Daphnia magna (Water flea	a)	
Toxicity to bacteria	: Respiration inhibition EC50: > 1,000 mg/l Exposure time: 3 h Species: activated sludge Method: OECD 209		
Elimination information (per	sistence and degradability)		
Bioaccumulation	: Bioconcentration factor (BCF): 3.16 Note: Accumulation in aquatic organisms is unlikely.		
Biodegradability	: Value: 63 % Method: OECD 301 C Note: Readily biodegradable, accord test.	ing to appropriate OECD	
Further information on ecolo	ogy		
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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

: Dispose of contents/ container in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION

DOT Not dangerous goods

TDG Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances Control Act	: On TSCA Inventory				
Australia. Industrial Chemical (Notification and Assessment) Act	: On the inventory, or in compliance with the inventory				
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	: All components of this product are on the Canadian DSL.				
Japan. Kashin-Hou Law List	: On the inventory, or in compliance with the inventory				
Korea. Toxic Chemical Control Law (TCCL) List	: On the inventory, or in compliance with the inventory				

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Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	: On the in	On the inventory, or in compliance with the inventory			
China. Inventory of Existing Chemical Substances	: On the in	On the inventory, or in compliance with the inventory			
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	: On the in	: On the inventory, or in compliance with the inventory			
National regulatory informa	tion				
SARA 302 Components		No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.			
SARA 313 Components	known C/	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.			
SARA 311/312 Hazards	: Acute He	Acute Health Hazard			
California Prop. 65	California	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.			
Massachusetts RTK	: Glycerol		56-81-5		
WHMIS Classification		Not Rated This product has been classified according to the hazard criteria			
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of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 1	1
Flammability	: 1	1
Physical Hazard	: 0	
Instability	:	0

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group