Safety Data Sheet



Issuing Date 02-Jun-2010 Revision Date 09-Apr-2013 Revision Number 2

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

Product Name Glycerol

Product Code(s) 0854

Recommended Use For Further Manufacturing Use Only

Not for Human or Animal Drug Use

Company
AMRESCO, LLC
6681 Cochran Road
Solon, Ohio 44139

Emergency Telephone Number Chemtrec 1-800-424-9300

Company Phone Number

E-mail Address

1-800-448-4442 info@amresco-inc.com

2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Skin Irritant 2 Eye Irritant 2

Signal Word Warning



Hazard Statements H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May

cause respiratory irritation

Precautionary Statements P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Glycerol	-	Not available	56-81-5	95-100	-

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated

clothes and shoes.

Inhalation Move to fresh air. If breathing becomes difficult, give oxygen.

Ingestion Clean mouth with water and afterwards drink plenty of water.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.

Flash Point 160 °C / 320 °F

Suitable Extinguishing Media Dry chemical, CO2, water spray or regular foam.

Hazardous Combustion Products Carbon oxides.

Explosion Data

Sensitivity to Mechanical ImpactNot sensitive.Sensitivity to Static DischargeNot sensitive.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and

full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure

adequate ventilation.

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up 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

Handling Handle in accordance with good industrial hygiene and safety practice.

Hygroscopic.

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Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Hygroscopic.

Incompatible Products Strong oxidizing agents. Strong bases.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol		TWA: 15 mg/m ³	
56-81-5		TWA: 5 mg/m ³	

Engineering Measures Showers

Eyewash stations Ventilation systems.

Personal Protective Equipment

Eye/Face Protection Skin and Body ProtectionTightly fitting safety goggles.
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

Appearance Colorless, clear, haze-free
Odor No information available
Odor Threshold No information available
Decomposition Temperature °C Freezing Point No information available

Freezing Point No information available
Initial Boiling Point No information available

Physical State Material pH 5.5 - 8

Flash Point 320 °F / 160 °C
Autoignition Temperature 698 °F / 369 °C /
Boiling Point/Range 182 °C /20 MM
Melting Point/Range No data available 20

Flammability Limits in Air Upper No data available Lower No data available

Lower 0.9

Explosive PropertiesNo information availableOxidizing PropertiesNo information availableEvaporation RateNo data available

MMHG @ 37.8 C

Vapor Density

No data available

No data available

Specific Gravity 1.261
Density 3.1

Solubility No information available Partition Coefficient No data available

(n-octanol/water)

Viscosity No information available

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible Products Strong oxidizing agents. Strong bases.

Conditions to Avoid None known based on information supplied.

Hazardous Decomposition Products Carbon oxides.

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Irritating to eye, skin and respiratory system.

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied.

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

	Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Γ	Glycerol		LC50 51 - 57 mL/L		
			Oncorhynchus mykiss 96 h		

13. DISPOSAL CONSIDERATIONS

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

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations.

14. TRANSPORT INFORMATION

IATA Not regulated

DOT Not regulated

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Subst Whose Are Indica	mful tances Names to be ted on Label	Pollution Release Transf Registry (G	and er	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Glycerol	Not applicable	Not applicable	Not ap	plicable	Not applic	able	Not applicable	Not applicable
Component	ISHA - Harm Substance Prohibited f Manufacturii Importing Transferring Supplying	S Substal for Requirence, ng, Permis , , or	nces ring	Class Listing	Chemical sification g (TCCL) - Chemicals		xic Release entory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
Glycerol 56-81-5 (95-100)	Not applicab	ole Not appli	icable	Not a	pplicable	No	t applicable	Not applicable

International Inventories

TSCA Complies
EINECS/ELINCS Complies
ENCS Complies
IECSC Complies
KECL Does not Comply

PICCS Complies

AICS Complies

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 any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

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).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:.

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Glycerol	56-81-5	95-100		Group II		

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Glycerol	X	X	X		X

International Regulations

Mexico - Grade

Chemical Name	Carcinogen Status	Exposure Limits
Glycerol		Mexico: TWA 10 mg/m ³

Canada

WHMIS Hazard Class

D2B Toxic materials



16. OTHER INFORMATION

Issuing Date 02-Jun-2010

Revision Date 09-Apr-2013

Revision Note

No information available

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS 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 text.

End of MSDS