

AVATAR CORPORATION		Date:	02/06/15
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Title:	GLYCERIN SERIES – Safety Data Sheet		
Document Owner:	J.D.H.	Approved by:	J.P. Roush, M.S.

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product Identifier

Tradename:

GLYCERIN SERIES

Synonyms:

Glycerine; Glycerol; 1,2,3-Propanetriol; 1,2,3-Trihydroxypropane
96.0% USP; 96.0% USP, Kosher; 96.0% USP, K-NG; 99.5% USP;
99.5% USP, Kosher; 99.5% USP, K-NG; 99.7% USP;
99.7% USP, Kosher; 99.7% USP, K-NG; 99.7% TECH;
99.7 USP K PASS; 99.7% USP K SIGNED; 99.7% USP K-CC;
99.7% USP K-DP; 99.7% USP K-HM; 99.7% USP K-LC;
99.7% USP K-MM; 99.7% USP K-NG FOU; 99.7% USP K-PB;
Technical Grade; 50.0% USP

Code:

1111111

REACH preregistration No.:

05-2117232125-57-0000

1.2. Identified uses / uses advised against

Identified uses:

A softening agent for creams and lotions; solubilizer and viscosity modifier for liquid soaps, mouth wash, toothpaste, shampoo and hair conditioners; flavor enhancement for oral care and cough syrup; humectant and sweetener in foods; freezing point depression in antifreeze mixtures.

1.3. Supplier details:

Company/Address:

Avatar Corporation, 500 Central Avenue, University Park, IL
60484 USA

Website:

www.avatarcorp.com

Email:

jproush@avatarcorp.com

Telephone/Fax:

708.534.5511 / 708.534.0123

Responsible Dept:

Regulatory

1.4 Transportation emergency contact:

Chem Tel 800.255.3924

Distributed by:



1402 N. Capitol Ave., Ste. 100
Indianapolis, IN 46202
(317) 781-4400
www.superioroil.com

2. HAZARDS IDENTIFICATION:

2.1. Classification of substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]: Not classified

Classification according to Directive 67/548/EEC or 1999/45/EC: Not classified

2.2. Label elements:

NFPA Code: Health-1, Flammability-1, Reactivity-0

HMIS Code: Health-1, Flammability-1, Reactivity-0

2.3. Other hazards:

Eye Contact:

Slightly hazardous (irritant).

Skin Contact:

Non-irritant.

Ingestion:

Large amounts of ingestion may cause injury.

Inhalation:

Inhalation of mist may cause respiratory irritation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substance

<u>Component</u>	<u>CAS No.</u>	<u>EC No.</u>	<u>% by Wt.</u>	<u>HS Tariff Classification No.</u>
Glycerin	56-81-5	200-289-5	50.0%-100.0%	2905.45.00
Water			< 50.0%	

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4. FIRST AID MEASURES

4.1. General information:

- Eye:* Flush immediately with large amounts of water. If irritation occurs, call a physician
- Skin:* Wash exposed area of skin with water. If burned by contact with hot material, cool material as quickly as possible with water. See a physician for burn treatment, irritation or allergic reaction.
- Ingestion:* For overexposure, seek medical attention immediately.
- Inhalation:* Remove to fresh air. If unconscious, seek medical attention.

4.2. Most important symptoms and effects, acute and delayed

Symptoms/injuries: High vapor concentration may induce headache, nausea, dizziness and respiratory irritation. Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

4.3. Indication of any immediate medical attention and special treatment needed: See 4.1 and 4.2.

5. FIRE FIGHTING MEASURES

- 5.1. Extinguishing media: Dry chemical, carbon dioxide, foam, steam or water fog. Agents approved for Class B hazards
- Unsuitable extinguishing media:* Water streams will scatter liquid and spread fire, but may be used to keep fire-exposed containers and surroundings cool.
- 5.2. Special hazards: May create dense smoke during combustion
- Fire hazard:* Mild fire hazard when heated above its flash point; material must be preheated before ignition will occur (OSHA Class IIIB).
- 5.3. Advise for firefighters:
- Firefighting instruction:* Cool unaffected containers and remove to safety.
- Firefighting protection:* Firefighters should wear full bunker gear, including a positive pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures
- Personnel:* Wear appropriate breathing apparatus, protective clothing gloves and eye/face protection. No smoking. Refer to section 8.
- Emergency procedures:* Remove all sources of ignition. Keep away from heat/sparks/open flames/hot surfaces.
- 6.2. Environmental precautions Prevent spills from entering sewers and public waters.
- 6.3. Containment / Cleanup
- Containment:* Dike around spill; have oil-absorbent materials readily available.
- Cleanup:* Remove mechanically or contain on an absorbent material such as dry sand or earth and dispose of in accordance with current applicable regulations

7. HANDLING AND STORAGE

- 7.1. Handling Safety glasses and protective clothing (i.e. lab coat) are required.
- 7.2. Storage Store in a cool, well-ventilated area in sealed containers. Do not store in open or unlabeled containers. Store away from strong oxidizing agents or combustible material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1. Control parameters
- Limits:* PEL TWA – 10 mg/m³ (glycerin mist-total dust)
- TWA – 5 mg/m³ (glycerin mist-respirable fraction)
- TLV TWA – 10 mg/m³ (glycerin mist)
- 8.2. Exposure controls Control airborne concentrations below the exposure guidelines. Provide local

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exhaust or general room ventilation to minimize vapor concentrations. Provide emergency eye wash fountains and safety showers.

Eye: Wear protective goggles or face shield if splashing is possible.

Skin: Wear protective gloves/clothing

Inhalation: Avoid breathing mist. If ventilation is inadequate, use NIOSH/MSHA certified respirator to protect against mist.

Environmental controls: Avoid release to the environment. Notify authorities if product enters sewers or public waters.

9. CHEMICAL AND PHYSICAL PROPERTIES

9.1. Basic physical and chemical properties

<i>Chemical Name:</i>	Glycerin
<i>Molecular Formula:</i>	CH ₂ CHOHCH ₂ OH
<i>Appearance / Odor:</i>	Colorless oily liquid / Odorless
<i>pH:</i>	Neutral to litmus
<i>Vapor Pressure:</i>	< 0.001 mmHg @ 25°C (77°F)
<i>Vapor Density (Air=1):</i>	3.1
<i>Boiling Point:</i>	554°F
<i>Melting Point:</i>	Not determined
<i>Solubility:</i>	Soluble in water
<i>Specific Gravity (Water=1):</i>	> 1 (Water = 1)
<i>Pour Point:</i>	Not applicable
<i>Flash Point / Method:</i>	390°F minimum / Tag Closed Cup
<i>Autoignition temperature:</i>	698°F
<i>Flammable limits:</i>	LEL (% vol. in air): Not determined. UEL (% vol. in air): Not determined.

10. STABILITY AND REACTIVITY

10.1. Reactivity	Unknown
10.2. Chemical Stability	Generally stable
10.3. Hazardous reactions	Hazardous polymerization will not occur
10.4. Conditions to avoid	Extreme heat; contact with chlorine, fluorine, and other strong oxidizers and acids
10.5. Incompatible materials	Chlorine, fluorine, and other strong oxidizers and acids
10.6. Hazardous decomposition products:	Incomplete burning can produce carbon monoxide and/or carbon dioxide.

11. TOXICOLOGICAL INFORMATION

11.1. <i>Routes of entry:</i>	Absorbed through skin and eye contact.
11.2. Toxicity	Data following is based on information from similar products, the ingredients, technical literature, and/or professional experience; Avatar Corporation does not do testing on animals. No component of these products present at levels > 0.1% is identified as a carcinogen by the U.S. National Toxicology Program, U.S. Occupational Safety and Health Act, or the International Agency on Research on Cancer (IARC).
<i>Dermal (rabbits):</i>	Testing not conducted. See Other Toxicity Data.
<i>Oral (rats):</i>	Testing not conducted. See Other Toxicity Data.
<i>Eye Irritation (rabbits):</i>	Testing not conducted. See Other Toxicity Data.

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Skin Irritation:

Testing not conducted. See Other Toxicity Data.

Carcinogenicity:

Testing not conducted. See Other Toxicity Data.

12. ECOLOGICAL INFORMATION

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|--|---|
| 12.1. <i>Toxicity</i> | No definitive information available on ecological impact if product is released into the environment. provided to us. |
| 12.2. <i>Persistence / degradability</i> | No data available |
| 12.3. <i>Bioaccumulation potential</i> | No data available |
| 12.4. <i>Mobility in soil</i> | No data available |
| 12.5. <i>PBT / vPvB assessment</i> | No data available |
| 12.6. <i>Other adverse effects</i> | No data available |

13. DISPOSAL INFORMATION

- 13.1. *Waste treatment methods:* Disposal must be in accordance with applicable federal, state, or local regulations. "Empty" drums should not be given to individuals.

14. TRANSPORTATION INFORMATION

- 14.1. *General Information* Not regulated by U.S. DOT, Canadian TODG, IMO/IMDG, ICAO/IATA, ADR/RID

15. REGULATORY INFORMATION

- | | |
|---|---|
| 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| <i>CERCLA Sections 102A/103 Hazardous Substances (40 CFR Part 302.4):</i> | Not reportable. |
| <i>SARA Title III Section 302 Extremely Hazardous Substances (40 CFR Part 355):</i> | Not regulated. |
| <i>SARA Title III Sections 311/312 Hazardous Categorization (40 CFR Part 370):</i> | Not regulated. |
| <i>SARA Title III Section 313 (40 CFR Part 372):</i> | Not regulated. |
| <i>U.S. Inventory (TSCA):</i> | Listed on inventory. All components comply with TSCA |
| <i>EPCRA 313:</i> | Not listed and does not contain any listed chemical or chemical category requiring reporting under 40 CFR 372.65. |
| <i>FDA 21 CFR 182.1320, "Substances Generally Recognized as Safe – Multiple Purpose GRAS Food Substances:</i> | Meet requirements. |
| <i>Food Chemicals Codex (FCC):</i> | Meet requirements. |
| <i>Kosher Certification:</i> | Compliant |
| 15.2. Chemical safety assessment | Incomplete |

16. OTHER INFORMATION

This material safety data sheet and the information it contains are offered in good faith as accurate. We have reviewed any information contained in this data sheet, which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use product(s) safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.

This product is not for use in any application that produces vapor, fog, mist, smoke, or aerosol, wherein there is a possibility of inhalation.

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Revision History

Date	Revision No.	Purpose	Authorized By
05/06/14	2222221-01	Initial	J.P. Roush, M.S.
02/06/15	2222221-02	SDS format	J.P. Roush, M.S.