



Section 1: Identification of the Substance/Mixture and of the Company Undertaking

1.1 Product identifier

Product Name: Glycerin Solution

Product Codes: None

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Restrictions: Not applicable.

1.3 Supplier's details

Manufacturer Name: Nordson EFD LLC

Manufacturer Address 1: 40 Catamore Boulevard

Manufacturer City: East Providence

Manufacturer State: Rhode Island

Manufacturer Zip Code: 02914

Manufacturer Country: USA

Business Phone: +1-401-431-7000

Other Phone: ChemTel: Outside of the US, Canada, Puerto Rico and the U.S. Virgin Islands:
+01-813-248-0585
China: 400-120-0751
Brazil: 0-800-591-6042
India: 000-800-100-4086
Mexico: 01-800-099-0731

Distributor: EFD International

Distributor Address 1: Unit 14, Apex Business Centre Boscombe Road

Distributor City: Dunstable, Bedfordshire

Distributor State: LU5 4SB England

Distributor Web: efdproductcompliance@nordsonefd.com

1.4 Emergency phone number

Emergency Phone: ChemTel Contract# MIS1138399
United States, Canada, Puerto Rico, and the U.S. Virgin Islands free phone number:
1-800-255-3924

Notes from Section 1: Conforms to Regulation (EC) No. 1907/2006 (REACH)

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]

GHS Class Phrases: Not a hazardous substance or mixture

2.2 Label elements:

Signal Words: Not applicable.

Hazard Statements: Not a hazardous substance or mixture

Precautionary Statements: Not a hazardous substance or mixture

2.3 Other hazards

Section 3: Composition/Information on Ingredients

3.2 Mixtures:

Ingredient Name	CAS Number	Ingredient Percent	EC Number	Comments
Water	7732-18-5	90		
Glycerin	56-81-5	10		

Section 4: First Aid Measures

4.1 Description of first aid measures

Eye Contact:	Flush eyes with water as a precaution
Skin Contact:	No adverse effects are anticipated by this route of exposure. Wash off with soap and plenty of water
Inhalation:	No adverse effects are anticipated by this route of exposure. If breathed in, move person into fresh air. If not breathing, give artificial respiration
Ingestion:	No adverse effects are anticipated by this route of exposure. Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of immediate medical attention and special treatment needed

Section 5: Firefighting Measures

5.1 Extinguishing media

Extinguishing Media:	Will not burn.
Unsuitable Media:	Not determined.

5.2 Special hazards arising from the substance or mixture

Hazardous Combustion Byproducts:	None known.
Unusual Fire Hazards:	None.

5.3 Advice for firefighters

Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not enter confined fire space without full protective gear.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
NFPA Fire:	0
NFPA Health:	0
NFPA Reactivity:	0

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personnel Precautions:	Avoid breathing vapours, mist or gas. For personal protection see section 8.
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6.2 Environmental precautions

Environmental Precautions: Keep out of sewers and waterways. Dispose of properly.

6.3 Methods and materials for containment and cleaning up

Methods for Containment: Collect and place into properly labeled waste container. Keep out of sewers and waterways. Dispose of properly. Provide ventilation.

Methods for Cleanup: Clean up spills immediately observing precautions in the protective equipment section. Place into a suitable container for disposal. Provide ventilation. After removal, flush spill area with soap and water to remove trace residue.

6.4 Reference to other sections

Other Spill Precautions: Refer to Section 8 for information on personal protection equipment.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Handling: Use with adequate ventilation. Avoid breathing vapor and fumes. Use only in accordance with directions.

Special Handling: Do not use in areas without adequate ventilation. Wash hands thoroughly after handling. May be slippery when spilled.

Hygiene Practices: Avoid inhaling vapors, mists, or fumes. Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.

7.3 Specific end use(s)

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters**Exposure Guidelines - Ingredient Based:****Glycerin:**

ACGIH - TLV - TWA: 10 mg/m³ (Upper respiratory tract irritant)

USA - OSHA - TWA: 15 mg/m³

8.2 Exposure controls

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Eye Protection: Safety glasses with side-shields.

Skin Protection: Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

Hand Protection: Wear appropriate protective gloves. Consult glove manufacturer's data for permeability data.

Respiratory Protection: Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Hygiene Practices: Avoid inhaling vapors, mists, or fumes. Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical and chemical properties

Physical State:	Liquid.
Color:	Water, White
Odor:	Odorless.
pH:	Not determined.
Melting Temperature:	Not applicable.
Boiling Temperature:	100°C (212°F)
Flash Point:	Not applicable.
Ignition Temperature:	Not determined.
Lower Flammable Limit:	Not determined.
Upper Flammable Limit:	Not determined.
Vapor Pressure:	Not determined.
Vapor Density:	Not determined.
Solubility:	Completely miscible
Specific Gravity:	1.0
Evaporation Rate:	Not established.
Partition Coefficient:	Not determined.
Percent Volatile:	Not determined.
VOC Content:	Not determined.
Odor Threshold:	Not determined.
Explosive Properties:	Not determined.

9.2 Other information

Section 10: Stability and Reactivity

10.1 Reactivity

Reactivity: Not reactive under normal conditions of use and storage.

10.2 Chemical Stability

Chemical Stability: Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

10.4 Conditions To Avoid

Conditions To Avoid: None known.

10.5 Incompatible Materials

Incompatible Materials: None known.

Section 11: Toxicological Information

11.1 Information on toxicological effects**Product:**

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Acute Skin Effects: May cause irritation.

Acute Eye Effects: May cause irritation.

Glycerin:

Skin Toxicity: LD50 Dermal - Rabbit - > 10,000 mg/kg

Ingestion Toxicity: LD50 Oral - Rat - 12,600 mg/kg

Section 12: Ecological Information

12.1 Ecotoxicity**Product:**

Ecotoxicity: Not determined.

Effect of Material On Plant/Animal: Not determined.

12.2 Persistence and degradability**Product:**

Biodegradation: Not determined.

12.3 Bioaccumulative potential**Product:**

BioAccumulation: Not determined.

12.4 Mobility in soil**Product:**

Mobility In Environmental Media: Not determined.

Section 13: Disposal Considerations

13.1 Waste treatment methods**Waste Disposal:**

Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines. Recycle when possible. Do not dump into sewers, on the ground, or into any body of water. This material may be incinerated at an approved facility.

Section 14: Transport Information

DOT Shipping Name: Not Regulated.

DOT UN Number: Not Regulated.

IMDG Shipping Name: Not Regulated.

IMDG UN Number: Not Regulated.

IATA Shipping Name: Not Regulated.

IATA UN Number: Not Regulated.
 RID/ADR Shipping Name: Not Regulated.
 RID/ADR UN Number: Not Regulated.

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory - Product Based:

Canada Reg. Status:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by the Controlled Products Regulations.

TSCA 8(b): Inventory Status:

All chemical constituents used in the manufacture of this product are listed on the TSCA inventory maintained by the U.S. Environmental Protection Agency.

EINECS (European Inventory of Existing Commercial Chemical Substances):

All chemical constituents used in the manufacture of this product are listed.

15.2 Chemical Safety Assessment

Section 16: Additional Information

Disclaimer:

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Additionally, Nordson EFD LLC assumes no responsibility for injury to the end user proximately caused by the material even if reasonable safety procedures are followed. The end user assumes the risk in his use of this material.

HMIS:

Health	0
Flammability	0
Reactivity	0
PPE	X

Chronic Health Hazard

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