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1. Identification of the substance/mixture and of the company/undertaking

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1.1. Product identifier

Trade name

: HYDROFOL 99.7% USP

Chemical Name

: Glycerin

Recommended use of the chemical and restrictions on use

Recommended use

: Industrial Use

Non-recommended

: None known.

use(s)

1.3. Details of the supplier of the safety data sheet

Company

: Evonik Corporation

Consumer Specialties

PO Box 1299

HOPEWELL VA 23860

USA

Telephone

: +1 (0)804 541-8658

Telefax

: +1 (0)804 541-2783

E-mail

: products afety-cs@evonik.com

Contact Canada

Company

: Evonik Canada Inc.

PO Box 5057

3380 South Service Road Burlington ON L7N 3J5

Canada

Telephone

: +1 (0)905-336-3423

Telefax

: +1 (0)905-332-5632

E-mail

: products afety-cs@evonik.com

Emergency telephone number

Emergency

: +1-800 424-9300 (Phone)

information

+1-800 424-9300 (FAX)

In case of emergency call CHEMTREC US: 1-800-424-9300, CHEMTREC WORLD:

1-703-527-3887.

24 HOUR EMERGENCY TELEPHONE NUMBERS: CHEMTREC - US & CANADA toll free: +1-800-424-9300

CHEMTREC - MEXICO toll free: 01-800-681-9531

CHEMTREC GLOBAL - Collect calls accepted: +1-703-527-3887

2. Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture according to 29 CFR 1910.1200.

2.2. Label elements

Not a hazardous substance or mixture according to 29 CFR 1910.1200.

2.3. Other hazards

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None known

3. Composition/information on ingredients

4. First aid measures

4.1. Description of first aid measures

General advice

: No information available.

Inhalation

: Not expected to present an inhalation exposure at normal conditions. Remove

individual to fresh air and consult a physician.

Skin contact

: Immediately and thoroughly, wash off with soap and water.

Eve contact

Immediately flush with large amounts of water for at least 15 minutes or more. Lifting

upper and lower lids intermittently. See a physician or ophthamologist and show this

data sheet.

Ingestion

: Drink 1-2 glasses of water and seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms

: No information is on file to date regarding acute and/or delayed post-exposure

symptoms and effects.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing : Dry chemical, water fog, alcohol foam

media

Unsuitable

extinguishing media

5.2. Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide

Advice for firefighters 5.3.

As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

Water or foam may cause frothing which can be violent, especially if sprayed into containers of hot, burning liquid.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

no data available

Environmental precautions

no data available

Methods and material for containment and cleaning up

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7. Handling and storage

7.1. Precautions for safe handling

Advice on safe

: no data available

handling

Handling : no data available

Hygiene measures

: No smoking, eating or drinking allowed when using this product. Wash hands before

breaks and at end of work shift. Avoid Skin and Eye Contact.

Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were

full.

General protective

measures

: no data available

7.2. Conditions for safe storage, including any incompatibilities

Prevention of fire and explosion

Information.

: None Known

Storage

Information

: Keep in closed or covered containers when not in use. Store in cool, dry place with

adequate ventilation. Do not store near heat or open flame.

Further information on

storage conditions

Exercise caution when handling contents of the container. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Whenever possible, use mechanical means to move large and/or heavy objects to help prevent back injuries.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)

Ingredients	CAS-No.	Statutory basis/list (Update)	Value type (Form of exposure; Expressed as)	Value	Short-term
1,2,3-Propanetriol	56-81-5	ACGIH (2009)	TWA	10 mg/m3	
		OSHA Z1 (02 2006)	PEL	5 mg/m3	
		OSHA Z1 (02 2006)	PEL	15 mg/m3	

8.2. Exposure controls

Engineering controls

Appropriate engineering controls

: Good general ventilation should be sufficient for most conditions. Local exhaust

ventilation may be necessary for some operations.

Personal protective equipment

Eye protection

: Splash proof eye goggles recommended.

Hand protection

: Gloves not required but recommended (PVC).

Body Protection

: protective overalls

Respiratory protection

: If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor/mist

respirator.

9. Physical and chemical properties

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Information on basic physical and chemical properties 9.1.

Physical state

: no data available

Form : liquid : Colorless Colour Odour : Faint

Odour Threshold : not measured

На

: ca.7

Remarks: At 10%, in water.

Melting point

: no data available

Boiling point

: Boiling point/range

= 290 °C

Flash point

: > 320 °F

Method: Cleveland Open Cup

Evaporation rate

: Slower than ether

Flammability

: no data available

Upper

Explosion/Ignition

: Not measured

Limit

Lower explosion limit

: Not measured

Vapour pressure

: 0.003 mbar

(50 °C)

Relative vapour

density

: not measured

Relative density

: no data available

Solubility

: not measured

Water solubility

: Soluble

Partition coefficient

(n-octanol/water)

: not measured

Autoignition

: not measured

temperature Thermal

: no data available

decomposition

: no data available

Viscosity, dynamic

Viscosity, kinematic

: no data available

Explosive properties

: not measured

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Oxidising properties

: not measured

9.2. Other information

Density

: 1.26 g/cm3

Metal corrosion

: not measured

10. Stability and reactivity

10.1. Reactivity

see section "Possibility of hazardous reactions"

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

no data available

10.4. Conditions to avoid

Avoid contact with strong oxidizing agents.

10.5. Incompatible materials

Unknown

10.6. Hazardous decomposition products

no data available

11. Toxicological information

11.1. Information on toxicological effects

Acute to xicity (oral)

: no data available

Acute to xicity (inhalation)

: no data available

Acute to xicity

: no data available

(demal)

Irritation/corrosion of

the skin

: The toxic effects of this material is not known.

Serious eye damage/

: Result: The toxic effects of this material is not known.

eye irritation

Respiratory/skin

: no data available

sensitization

Repeated dose

: no data available

toxicity

CMR assessment

Carcinogenicity

: no data available

Mutagenicity

: no data available

Teratogenicity

: no data available

Toxicity to reproduction : no data available

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Specific Target

: no data available

Organ Toxicity -Single exposure

Specific Target Organ Toxicity -Repeated exposure : no data available

Other information

: no data available

12. **Ecological information**

Ecotoxicology Assessment

Acute aquatic toxicity : no data available

Chronic aquatic toxicity

: no data available

12.1. Toxicity

Aquatoxicity, fish

: no data available

Aquatoxicity, invertebrates : no data available

Aquatoxicity, algae /

: no data available

aquatic plants

Toxicity in microorganisms : no data available

chronic toxicity in fish

: no data available

Chronic toxicity in aquatic Invertebrates : no data available

Toxicity in organisms

: no data available

which live in the soil

: no data available

Toxicity in terrestrial

plants

Toxicity to Above-Ground Organisms : no data available

12.2. Persistence and degradability

Photodegradation

: no data available

Biological

: no data available

degradability

Physico-chemical

: no data available

removability

Biochemical Oxygen Demand (BOD)

: no data available

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Chemical Oxygen Demand (COD)

: no data available

relation of BOD/COD

: no data available

Dissolved organic carbon (DOC)

: no data available

Adsorbed organic bound halogens

: no data available

(AOX)

Distribution among

: no data available

environm ental compartments

12.3. Bioaccumulative potential

Bioaccumulation

: no data available

12.4. Mobility in soil

Environmental

: no data available

distribution

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

: no data available

12.6. Other adverse effects

General Information

: No data available.

13. Disposal considerations

13.1. Waste treatment methods

Product

: Incinerate in an authorized and permitted thermal treatment facility or chemical or

biological treatment in authorized and permitted facilities is recommended.

Contaminated

: no data available

packaging

Transport information

Not dangerous according to transport regulations.

14.1 UN number:

14.

14.2 UN proper shipping name:

14.3 Transport hazard class(es):

14.4 Packing group:

14.5 Environmental hazards: 14.6 Special precautions for user:

No

15. Regulatory information

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Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the (M)SDS contains all information required by the Controlled Products Regulation

Canada

: WHMIS CLASSIFICATION

Non-WHMIS

This product does not contain component(s) on the WHMIS Ingredient Disclosure

List

US regulations:

SARA Title III Section

: No SARA Hazards

311/312 Hazard Categories

Other regulations

: no data available

State Right to Know

No components subject to "Right-To-Know" legislation in the following States: NJ,

PA, MA and RI

SARA 313: This product contains no SARA Title III, Section 313 listed chemicals.

Notification status

USA (TSCA) Canada (DSL) : listed/registered or exempted

: listed/registered or exempted

16. Other information

List of references

Other information

: none

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Legend

ADR European Agreement conceming the International Carriage of Dangerous Goods by Road
ADN European Agreement conceming the International Carriage of Dangerous Goods by Inland

Waterways

ADNR European agreement concerning the international carriage of dangerous goods by inland

waterways (ADN)

ASTM American Society for Testing and Materials

ATP Adaptation to Technical Progress

BCF Bioconcentration factor

BetrSichV German Ordinance on Industrial Safety and Health

c.c. closed cup

CAS Chemical Abstract Services

CESIO European Committee of Organic Surfactants and their Intermediates

Chem G German Chemicals Act

CMR carcinogenic-mutagenic-toxic for reproduction

DIN German Institute for Standardization
DMEL Derived minimum effect level
DNEL Derived no effect level

European Inventory of Existing Commercial Chemical Substances

EC50 half maximal effective concentration

GefStoffV German Ordinance on Hazardous Substances

GGVSEB German ordinance for road, rail and inland waterway transportation of dangerous goods

GGVSee German ordinance for sea transportation of dangerous goods

GLP Good Laboratory Practice
GMO Genetic Modified Organism

IATA International Air Transport Association
ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
ISO International Organization For Standardization

LOAEL
LOWEST Observed adverse effect level
LOEL
NOAEL
NOEC
LOWEST Observed adverse effect level
A observed adverse effect level
No observed adverse effect level
no observed effect concentration

NOEL no observed effect level

o. c. open cup

OECD Organisation for Economic Cooperation and Development

OEL Occupational Exposure Limit
PBT Persistent, bioaccumulative, toxic
PEC Predicted effect concentration
PNEC Predicted no effect concentration

REACH REACH registration

RID Convention concerning International Carriage by Rail

STOT Specific Target Organ Toxicity
SVHC Substances of Very High Concern

TA Technical Instructions

TPR Third Party Representative (Art. 4)

TRGS
VCI
VPVB
Technical Rules for Hazardous Substances
German chemical industry association
very persistent, very bioaccumulative

VOC volatile organic compounds

VwVwS German Administrative Regulation on the Classification of Substances Hazardous to Waters

into Water Hazard Classes

WGK Water Hazard Class
WHO World Health Organization