

SAFETY DATA SHEET (SDS-US)

HYDROFOL 99.7% USP

VA-No.

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12/01/2014
04/15/2015
1 / 9**1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Trade name : HYDROFOL 99.7% USP

Chemical Name : Glycerin

1.2. Recommended use of the chemical and restrictions on use

Recommended use : Industrial Use

Non-recommended use(s) : None known.

1.3. Details of the supplier of the safety data sheetCompany : 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 : productsafety-cs@evonik.com

Contact CanadaCompany : 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 : productsafety-cs@evonik.com

1.4. Emergency telephone numberEmergency information : +1-800 424-9300 (Phone)
+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****2.1. 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.
- Eye 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 ophthalmologist 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 media : Dry chemical, water fog, alcohol foam

Unsuitable extinguishing media :

5.2. Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide

5.3. Advice for firefighters

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**6.1. Personal precautions, protective equipment and emergency procedures**

no data available

6.2. Environmental precautions

no data available

6.3. 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 handling : no data available

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/m ³	
		OSHA Z1 (02 2006)	PEL	5 mg/m ³	
		OSHA Z1 (02 2006)	PEL	15 mg/m ³	

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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Physical state	: no data available
Form	: liquid
Colour	: Colorless
Odour	: Faint
Odour Threshold	: not measured
pH	: 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 Limit	: Not measured
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 temperature	: not measured
Thermal decomposition	: no data available
Viscosity, kinematic	: no data available
Viscosity, dynamic	: 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 toxicity (oral) : no data available

Acute toxicity (inhalation) : no data available

Acute toxicity (dermal) : no data available

Irritation/corrosion of the skin : The toxic effects of this material is not known.

Serious eye damage/ eye irritation : Result: The toxic effects of this material is not known.

Respiratory/skin sensitization : no data available

Repeated dose toxicity : no data available

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 Organ Toxicity - Single exposure : no data available
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

Aquatic toxicity, fish : no data available

Aquatic toxicity, invertebrates : no data available

Aquatic toxicity, algae / aquatic plants : no data available

Toxicity in microorganisms : no data available

chronic toxicity in fish : no data available

Chronic toxicity in aquatic invertebrates : no data available

Toxicity in organisms which live in the soil : no data available

Toxicity in terrestrial plants : no data available

Toxicity to Above-Ground Organisms : no data available

12.2. Persistence and degradability

Photodegradation : no data available

Biological degradability : no data available

Physico-chemical removability : no data available

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 (AOX) : no data available

Distribution among environmental compartments : no data available

12.3. Bioaccumulative potential

Bioaccumulation : no data available

12.4. Mobility in soil

Environmental distribution : no data available

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 packaging : no data available

14. Transport information

Not dangerous according to transport regulations.

14.1 UN number: --
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 311/312 Hazard Categories : No SARA Hazards

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) : listed/registered or exempted

Canada (DSL) : listed/registered or exempted

16. Other information**List of references**

Other information : none

Revision date : 12/01/2014

Changes since the last version are highlighted in the margin. This version replaces all previous versions. This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

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**Legend**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning 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
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	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	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	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	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	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