

Page 1/9

Safety Data Sheet acc. to OSHA HCS

03/17/2017 Reviewed on 03/17/2017

1 Identification

- · Product identifier
- · Trade name: Glycerol Formal Stabilized
- · Article number: 30710
- **CAS Number:** 5464-28-8 4740-78-7
- · Application of the substance / the mixture Food additives
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

McGean-Rohco, Inc. 2910 Harvard Ave. Cleveland, OH 44105 USA 216-441-4900

msds.info@mcgean.com

- · Information department: Environmental, Health, and Safety
- Emergency telephone number: Chemtrec: 800-424-9300 or 703-527-3887

2 Hazard(s) identification

· Classification of the substance or mixture



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard statements

H319 Causes serious eye irritation.

· Precautionary statements

P280

Wear eye protection / face protection.

P264

Wash thoroughly after handling.

(Contd. on page 2)



Page 2/9

Safety Data Sheet acc. to OSHA HCS

03/17/2017 Reviewed on 03/17/2017

Trade name: Glycerol Formal Stabilized

(Contd. of page 1)

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention. P337+P313

- · Additional information: "This product is from non-animal origin."
- · Classification system:
- NFPA ratings (scale 0 4)



Health = 1 Fire = 1 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



1 Health = 1 Fire = 1 Reactivity = 0

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description

4740-78-7 1,3-Dioxan-5-ol

- · Chemical characterization:
- · Description: Mixture of the substances listed below with nonhazardous additions.
- Dangerous components:

5464-28-8 1,3-Dioxolane-4-methanol

25-50%

4 First-aid measures

- Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

(Contd. on page 3)



Page 3/9

Safety Data Sheet acc. to OSHA HCS

03/17/2017 Reviewed on 03/17/2017

Trade name: Glycerol Formal Stabilized

(Contd. of page 2)

5 Fire-fighting measures

- Extinguishing media
- · Suitable extinguishing agents:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: Protect from heat.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

store under nitrogen, in airtight container

· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information: The lists that were valid during the creation were used as basis.

(Contd. on page 4)



Page 4/9

Safety Data Sheet acc. to OSHA HCS

03/17/2017 Reviewed on 03/17/2017

Trade name: Glycerol Formal Stabilized

(Contd. of page 3)

- · Exposure controls
- Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- · Breathing equipment: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form:

Liquid

Color:

Colorless

· Odor:

Pungent

· Odor threshold:

Not determined.

· pH-value at 20 °C (68 °F):

5

· Change in condition

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

193 °C (379 °F)

(Contd. on page 5)



Page 5/9

Safety Data Sheet acc. to OSHA HCS

03/17/2017 Reviewed on 03/17/2017

Trade name: Glycerol Formal Stabilized

(Contd. of page 4)

	(Conta. or pa
· Flash point:	96 °C (205 °F)
· Flammability (solid, gaseous):	Not determined.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure:	Not applicable.
· Density at 20 °C (68 °F): · Relative density · Vapor density · Evaporation rate	1.22 g/cm³ (10.181 lbs/gal) Not determined. Not applicable. Not applicable.
· Solubility in / Miscibility with Water:	Soluble.
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.
· Solvent content: Organic solvents: VOC content:	0.0 % 0.0 g/l / 0.00 lb/gl
Solids content: · Other information	100.0 % No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability This product is stable.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

(Contd. on page 6)



Page 6/9

Safety Data Sheet acc. to OSHA HCS

03/17/2017 Reviewed on 03/17/2017

Trade name: Glycerol Formal Stabilized

(Contd. of page 5)

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: unknown
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

McGean-Rohco, Inc. 2910 Harvard Ave., Cleveland OH 44105 USA • www.mcgean.com • +1-216-441-4900



Page 7/9

Safety Data Sheet acc. to OSHA HCS

03/17/2017 Reviewed on 03/17/2017

Trade name: Glycerol Formal Stabilized

(Contd. of page 6)

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

· UN-Number · DOT, ADN, IMDG, IATA	Not Regulated for Transport
· UN proper shipping name · DOT, ADN, IMDG, IATA	Not Regulated for Transport
· Transport hazard class(es)	
· DOT, ADN, IMDG, IATA · Class	Not Regulated for Transport
· Packing group · DOT, IMDG, IATA	Not Regulated for Transport
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
· UN "Model Regulation":	Not Regulated for Transport

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

None of the ingredients is listed.

- Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

(Contd. on page 8)



Page 8/9

Safety Data Sheet acc. to OSHA HCS

03/17/2017 Reviewed on 03/17/2017

Trade name: Glycerol Formal Stabilized

(Contd. of page 7)

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



- · Signal word Warning
- · Hazard statements

H319 Causes serious eye irritation.

· Precautionary statements

P280 Wear eye protection / face protection.
P264 Wash thoroughly after handling.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment Health and Safety
- · Contact: Darla Rivera
- · Date of preparation / last revision 03/17/2017 / 8
- Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

(Contd. on page 9)

McGean-Rohco, Inc. 2910 Harvard Ave., Cleveland OH 44105 USA • www.mcgean.com • +1-216-441-4900



Page 9/9

Safety Data Sheet acc. to OSHA HCS

03/17/2017 Reviewed on 03/17/2017

Trade name: Glycerol Formal Stabilized

(Contd. of page 8)

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A