SAFETY DATA SHEET



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Glycerol Name of the substance Trade name of the Couplant B

substance

Identification number 200-289-5 (EC number)

Registration number

None. **Synonyms**

15-August-2016 Issue date

Version number 04

22-November-2022 **Revision date**

Supersedes date

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

Identified uses Couplant. Uses advised against None known. 1.3. Details of the supplier of the safety data sheet

Supplier Evident Europe GmbH Caffamacherreihe 8-10, **Address**

20355 Hamburg

Germany

+49-402-3773-9112 **Telephone**

Fax

evident-safety@evidentscientific.com e-mail

1.4. Emergency telephone

number

CHEMTREC

US: 1-800-424-9300, International: +1 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Specific target organ toxicity - single Category 3 respiratory tract irritation H335 - May cause respiratory irritation.

exposure

Hazard summary May cause respiratory irritation.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Glycerol

Hazard pictograms



Signal word Warning

Hazard statements

May cause respiratory irritation. H335

Precautionary statements

Prevention

Avoid breathing mist or vapour. P261

Use only outdoors or in a well-ventilated area. P271

Response

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P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTRE or doctor/physician if you feel unwell. P312

Storage

Store in a well-ventilated place. Keep container tightly closed. P403 + P233

Store locked up. P405

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Supplemental label information None.

Not a PBT or vPvB substance or mixture. 2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

General information

| Chemical name | % | CAS-No. / EC No. | REACH Registration No. | INDEX No. | Notes |
|-----------------|----------------|----------------------|------------------------|-----------|-------|
| Glycerol | 100 | 56-81-5 200-289-5 | - | - | |
| Classification: | STOT SE 3;H335 | | | | |

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in

percent by volume.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion Rinse mouth thoroughly. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and

delayed

Exposure may cause temporary irritation, redness, or discomfort. May cause respiratory irritation.

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

SECTION 5: Firefighting measures

General fire hazards Will burn if involved in a fire.

5.1. Extinguishing media

Suitable extinguishing

Use fire-extinguishing media appropriate for surrounding materials.

media

Unsuitable extinguishing

media

5.2. Special hazards arising from the substance or mixture By heating and fire, harmful vapours/gases may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting

procedures

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

None known.

personnel

Ensure adequate ventilation. Avoid prolonged exposure. Keep unnecessary personnel away. In case of spills, beware of slippery floors and surfaces. Wear appropriate protective equipment and

clothing during clean-up.

Keep unnecessary personnel away. Be aware of potential for surfaces to become slippery. Use For emergency responders

personal protection recommended in Section 8 of the SDS.

Couplant B SDS UK 6.2. Environmental precautions Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for

containment and cleaning up

Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). After cleaning, flush away traces with water. For waste disposal, see section 13 of the SDS.

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Provide adequate ventilation. Avoid prolonged exposure. Avoid breathing mist or vapour. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in closed original container at temperatures between 18°C and 54°C. Store away from

incompatible materials (see section 10 of the SDS).

No biological exposure limits noted for the ingredient(s).

Couplant. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

Follow standard monitoring procedures.

Recommended monitoring procedures

Derived no effect levels (DNELs)

Predicted no effect

Not available

Not available.

concentrations (PNECs) 8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information Personal protection equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

Eye/face protection If contact is likely, safety glasses with side shields are recommended. Eye wash fountain is

recommended.

Skin protection

- Hand protection For prolonged or repeated skin contact use suitable protective gloves. Suitable gloves can be

recommended by the glove supplier.

- Other Wear suitable protective clothing.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

Always observe good personal hygiene measures, such as washing after handling the material Hygiene measures

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

Environmental exposure

controls

Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid. **Form** Viscous. Colour Clear. Odour

Odour threshold Not available. Not available. pН 19.85 °C (67.73 °F) Melting point/freezing point

Initial boiling point and boiling

290 °C (554 °F)

range

Flash point 198.9 °C (390.0 °F) Closed cup > 1 (Ether (anhydrous) =1) **Evaporation rate**

SDS UK Couplant B

933919 Version #: 04 Revision date: 22-November-2022 Issue date: 15-August-2016 Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

(%)

Flammability limit - upper 11.3

Flammability limit - lower

(%)

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Solubility(ies) Soluble in water.

Partition coefficient (n-octanol/water)

-1.76

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.Explosive propertiesNot explosive.Oxidising propertiesNot oxidising.

9.2. Other information

Molecular formula C3-H8-O3
Molecular weight 92.09 g/mol

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Hygroscopic.

10.2. Chemical stability Material is stable under normal conditions...

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Excessive heat. Ignition sources.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous

decomposition products

Hygroscopic

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation High mist concentrations may cause irritation of respiratory tract.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms Exposure may cause temporary irritation, redness, or discomfort. May cause respiratory irritation.

11.1. Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Product Species Test results
Glycerol (CAS 56-81-5)
Acute

Dermal

LD50 Rabbit

> 10 g/kg

Oral

LD50 Rat 12600 mg/kg

Skin corrosion/irritationBased on available data, the classification criteria are not met. **Serious eye damage/eye**Based on available data, the classification criteria are not met.

Respiratory sensitisation

Skin sensitisation

irritation

Due to lack of data the classification is not possible.

This product is not expected to cause skin sensitisation.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Couplant B SDS UK

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Based on available data, the classification criteria are not met.

Not an aspiration hazard. **Aspiration hazard** Mixture versus substance

information

No information available.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic

environment.

Product Test results Species

Glycerol (CAS 56-81-5)

Aquatic

LC50 Fish Fish 54000 mg/l, 96 hours

12.2. Persistence and

degradability

The product is readily biodegradable.

12.3. Bioaccumulative potential The product is not bioaccumulating.

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil No data available.

12.5. Results of PBT

and vPvB assessment Not a PBT or vPvB substance or mixture

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation 12.6. Other adverse effects potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Special precautions Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods. 14.7. Transport in bulk Not applicable.

according to Annex II of Marpol

and the IBC Code

SECTION 15: Regulatory information

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

EU regulations

SDS UK Couplant B

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at

work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as

amended.

National regulations Follow national regulation for work with chemical agents.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

vPvB: Very Persistent and very Bioaccumulative.

PBT: Persistent, bioaccumulative and toxic.

LD50: Lethal Dose 50%.

LC50: Lethal Concentration 50%.

References

Not available.

Information on evaluation method leading to the

classification of mixture

methods and test data, if available.

Full text of any H-statements

H335 May cause respiratory irritation.

not written out in full under

Sections 2 to 15
Training information

Follow training instructions when handling this material.

Disclaimer

Evident Scientific cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

The classification for health and environmental hazards is derived by a combination of calculation

sheet was written based on the best knowledge and experience currently available.

Couplant B SDS UK