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Product name: Couplant B

SAFETY DATA SHEET

1. Identification

Name of the substance or

Couplant B-2

mixture (trade name)

Major recommended uses for the substance or mixture

Couplant.

Specific restrictions for use of

the substance or mixture

Not available.

Manufacturer/Importer/Distributor information

Supplier Olympus

Address 48 Woerd Ave. Waltham, MA 02453, USA

Telephone +1 781-419-3900 CHEMTREC **Emergency telephone**

number

2. Hazards identification

Classification of the substance or mixture

Physical hazards Not classified.

Health hazards Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

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

Environmental hazards Not classified.

GHS labeling elements, including precautionary statements

Hazard symbol(s)



Signal word Warning

Hazard statement(s) May cause respiratory irritation.

Precautionary statement(s)

Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Prevention

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

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

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

Other hazards which do not

result in classification

None known.

Supplemental information None.

3. Composition/information on ingredients

Substance

Common chemical name or technical name	CAS number	Concentration or concentration range
Glycerin	56-81-5	100

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

percent by volume.

4. First-aid measures

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.

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

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

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

symptoms/effects, acute and

delayed

Direct contact with eyes may cause temporary irritation. May cause respiratory irritation.

Personal protection for first-aid

responders

Most important

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

protect themselves.

Notes to physician Treat symptomatically.

5. Fire-fighting measures

Means of fire extinguishing

Suitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

By heating and fire, harmful vapors/gases may be formed.

Special fire fighting

procedures

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

Protective measures taken by

firefighting crews

General fire hazards

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

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

6. Control measures for spills and leaks

Personal precautions, protective equipment and emergency procedures

Will burn if involved in a fire.

To be taken by those who are not involved in rendering emergency services

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. For personal protection, see section 8 of the SDS.

To be taken by those who are involved in rendering emergency services

Keep unnecessary personnel away. Be aware of potential for surfaces to become slippery. Use personal protection recommended in Section 8 of the SDS.

Environmental precautions Methods and materials for

Avoid discharge into drains, water courses or onto the ground.

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.

7. Handling and storage

Precautions for safe handling

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

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).

8. Exposure controls/personal protection

Follow standard monitoring procedures **Control parameters** No exposure limits noted for ingredient(s). Occupational exposure limits

Biological limit values

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

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.

Personal protective measures

Eyes and 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.

9. Physical and chemical properties

Appearance

Product name: Couplant B

Physical state Liquid. Viscous. **Form** Color Clear. Mild. Odor

Odor threshold Not available. Not available. pН

67.73 °F (19.85 °C) Melting point/freezing point Initial boiling point and boiling 554 °F (290 °C)

temperature range

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

Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits 26

Flammability limit - lower

Flammability limit - upper 11.3

(%)

Vapor pressure < 0.13 kPa Vapor density 3.1 (Air = 1)1.4 - 1.6 Relative density

Soluble in water. Solubility(ies)

Partition coefficient

(n-octanol/water)

-1.76

Not available. Auto-ignition temperature **Decomposition temperature** Not available. Not available. **Viscosity**

Other physical and chemical parameters

Explosive properties Not explosive. Molecular formula C3-H8-O3 Molecular weight 92.09 g/mol **Oxidizing properties** Not oxidizing.

10. Stability and reactivity

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

Hygroscopic.

Chemical stability Material is stable under normal conditions..

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Excessive heat. Ignition sources.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Hygroscopic

11. Toxicological information

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.

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Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms Direct contact with eyes may cause temporary irritation. May cause respiratory irritation.

Acute toxicity Not expected to be acutely toxic.

Product Species Test Results

Glycerin (CAS 56-81-5)

Acute Dermal

LD50 Rabbit > 10 g/kg

Oral

LD50 Rat 12600 mg/kg

Skin irritation and corrosion

Serious eye damage/eye

irritation

No adverse effects due to skin contact are expected. Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitizationDue to lack of data the classification is not possible. **Skin sensitization**This product is not expected to cause skin sensitization.

Germ cell mutagenicity

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

mutagenic or genotoxic.

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

Toxic to reproductionThis product is not expected to cause reproductive or developmental effects.

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.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product Species Test Results

Glycerin (CAS 56-81-5)

Aquatic

Fish LC50 Fish 54000 mg/l, 96 hours

Persistence and degradability The product is readily biodegradable.

Bioaccumulative potential The product is not bioaccumulating.

Bioconcentration factor

(BCF)

Not available.

Mobility in soil No data available for this product.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Considerations on final disposal

Recommended methods for final destination

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.

Local disposal regulations
Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

14. Transport information

National regulations

ANTT

Not regulated as dangerous goods.

International regulations

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IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15. Regulatory information

Federal regulations

This chemical product safety data sheet was prepared in accordance with the Brazilian Standard (ABNT NBR 14725-4: (Safety data sheet for chemicals (SDS))). The Chemicals Safety Information Card of the hazardous chemical can be obtained from a supplier.

International regulations

Montreal Protocol

Not applicable.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Basel Convention

Not applicable.

16. Other information

Significant information, yet not specifically related to the previous sections

Not available.

Legends and abbreviations

LD50: Lethal Dose 50%.

LC50: Lethal Concentration 50%.

Disclaimer

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