

1. Product and company identification

Product name	Couplant D
Product code	D-12 u8770026
Supplier	Olympus Australia Pty Ltd
Address	3 Acacia Place, Notting Hill, Victoria 3168, Australia
Telephone	+61 130-013-299
FAX	+61 395-431-350
e-mail	
Emergency telephone number	CHEMTREC US: 1-800-424-9300, International: +1 703-527-3887

Recommended use and Limitations on use

Recommended use Couplant.

2. Hazards identification

GHS classification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.

Label elements

Symbols	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.

Precautionary statements

Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.

3. Composition/information on ingredients

Substance or mixture Mixture

Chemical property	CAS Number	Concentration (%)
Propylene glycol	57-55-6	<35
Sodium molybdate	7631-95-0	<2

4. First aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Potential delayed effects	Direct contact with eyes may cause temporary irritation.
Personal protection for first-aid responders	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

Extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Extinguishing media to avoid	None known.
HAZCHEM Code Number	None.
Specific hazards during fire fighting	During fire, gases hazardous to health may be formed.

Special fire fighting procedures	Move containers from fire area if you can do so without risk.
Protection of fire-fighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Hazards from combustion products	None.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid prolonged exposure. Keep unnecessary personnel away. In case of spills, beware of slippery floors and surfaces. For personal protection, see section 8.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
Spill cleanup methods	Sweep or scoop up and remove. 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

Handling

Precautions	Avoid prolonged exposure. It is a good industrial hygiene practice to minimise skin contact. Use personal protection recommended in Section 8 of the SDS.
Safe handling advice	Observe good industrial hygiene practices.
Prevention of fire and explosion	No specific recommendations.
Local and general ventilation	Provide adequate ventilation.

Storage

Suitable storage conditions	Store away from incompatible materials (see Section 10 of the SDS).
Incompatible materials	Strong oxidising agents.
Safe packaging materials	Store in original tightly closed container.

8. Exposure controls/personal protection

Workplace exposure limits

New Zealand. WES. (Workplace Exposure Standards)

Components	Type	Value	Form
Propylene glycol (CAS 57-55-6)	TWA	474 mg/m ³	Vapor and particulates.
		10 mg/m ³	Particulate.
		150 ppm	Vapor and particulates.
Sodium molybdate (CAS 7631-95-0)	TWA	5 mg/m ³	

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Sodium molybdate (CAS 7631-95-0)	TWA	0.5 mg/m ³	Respirable fraction.

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Propylene glycol (CAS 57-55-6)	TWA	474 mg/m ³	Total vapour and particulates.
		10 mg/m ³	Particulate.
		150 ppm	Total vapour and particulates.
Sodium molybdate (CAS 7631-95-0)	STEL	10 mg/m ³	
	TWA	5 mg/m ³	

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value	Form
Propylene glycol (CAS 57-55-6)	TWA	474 mg/m ³	Total vapour and particulates.
		10 mg/m ³	Particulate.

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value	Form
		150 ppm	Total vapour and particulates.
Sodium molybdate (CAS 7631-95-0)	TWA	5 mg/m ³	

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value	Form
Propylene glycol (CAS 57-55-6)	TWA	474 mg/m ³	Total vapour and particulates.
		10 mg/m ³	Particulate.
		150 ppm	Total vapour and particulates.
Sodium molybdate (CAS 7631-95-0)	TWA	5 mg/m ³	

Biological limit values

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

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 equipment**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves. Suitable gloves can be recommended by the glove supplier.

Skin protection

Wear suitable protective clothing.

Eye/face protection

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

Radioactive or thermal hazards

Follow standard monitoring procedures.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties**Appearance****Physical state**

Liquid.

Form

Viscous.

Colour

Light. Blue green.

Odour

Mild.

Odour threshold

Not available.

pH

8

Melting point/freezing point

-15 °C (5 °F)

Boiling point, initial boiling point, and boiling range

> 104.44 °C (> 220 °F)

Flash point

Not available.

Auto-ignition temperature

Not applicable.

Flammability (solid, gas)

Not applicable.

Flammability limit - lower (%)

Not applicable.

Flammability limit - upper (%)

Not applicable.

Vapour pressure

Not applicable.

Vapour density

1

Evaporation rate

Not available.

Relative density

1.1 - 1.4 g/cc (Water = 1)

Density

Not available.

Solubility(ies)**Solubility (water)**

100 %

Partition coefficient (n-octanol/water)	Not available.
Decomposition temperature	Not available.
Viscosity	60000 cps Brookfield
Other data	
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
VOC (Weight %)	< 1.5 % (Calculated)

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Stability	Material is stable under normal conditions.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	No hazardous decomposition products are known.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	Prolonged contact may cause dryness of the skin.
Eye contact	Direct contact with eyes may cause temporary irritation.

Components	Species	Test results
Propylene glycol (CAS 57-55-6)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	20800 mg/kg
<i>Oral</i>		
LD50	Rat	22000 mg/kg
Sodium molybdate (CAS 7631-95-0)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 1930 mg/m ³
<i>Oral</i>		
LD50	Rat	4233 mg/kg
Routes of exposure	Skin contact. Eye contact.	
Symptoms	Direct contact with eyes may cause temporary irritation.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory sensitizer	Not a respiratory sensitiser.	
Skin sensitizer	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.	
Toxic to reproduction	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	No data available.	
Specific target organ toxicity - repeated exposure	No data available.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	None known.	

Relevant negative data No data available.

12. Ecological information

Ecotoxicological data

Components		Species	Test results
Propylene glycol (CAS 57-55-6)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Selenastrum capricornutum	19000 mg/l, 72 hours
Crustacea	LC50	Ceriodaphnia	18340 mg/l, 48 hours
Fish	LC50	Pimephales promelas	46500 mg/l, 96 hours
Sodium molybdate (CAS 7631-95-0)			
Aquatic			
Fish	LC50	Chinook salmon (Oncorhynchus tshawytscha)	> 1000 mg/l, 96 hours

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.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulation

Partition coefficient

n-octanol/water (log Kow)

Propylene glycol (CAS 57-55-6) -0.92

Bioconcentration factor (BCF) Not available.

Mobility No data available for this product.

Other hazardous 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. Disposal considerations

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.

14. Transport information

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

Applicable regulations Sodium molybdate: HSNO: HSR004007

New Zealand Inventory of Chemicals (NZIoC): Registration status

Sodium molybdate (CAS 7631-95-0) HSNO Approved

16. Other information

References Not available.

Issued by

Company name Olympus

Prepared by

Title Olympus

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.

Issue date 19-January-2016

Revision date -