

# Safety Data Sheet

according to the WHS Regulations

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### **SECTION 1: Product identifier**

#### 1.1. GHS Product identifier

Product form : Mixture
Product name : DS Solvent
Product code : 12332 12333

#### 1.2. Other means of identification

Synonyms : 12332 DS Solvent; 12333 DS Solvent 20Lt; Marking Ink Solvent; Conditioner.

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Solvent for thinning and cleaning signet DS Ink, signet Rola ink and similar stencilling inks,

can be used for cleaning ink appliances and conditioning stamp pads, rollers, etc as well as

replacing solvent lost in inks.

Restrictions on use : Not to be used for any purpose other than the one the product was designed for

#### 1.4. Details of manufacturer or importer

#### Supplier

Signet Pty Ltd 56 Ingleston Rd WAKERLEY, QLD 4154 Australia

T +61 (07) 3179 2100

sales@signet.net.au - www.signet.net.au

#### 1.5. Emergency phone number

Emergency number : Office hours: +61 (07) 3179 2100

Poisons Information Centre (24 h): 13 11 26

#### **SECTION 2: Hazard identification**

#### 2.1. Classification of the hazardous chemical

#### Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Flammable liquids, Category 4

Acute toxicity (oral), Category 4

Acute toxicity (inhalation:dust,mist) Category 4

H332

Skin corrosion/irritation, Category 2

H315

Serious eye damage/eye irritation, Category 2A

H319

Specific target organ toxicity – Repeated exposure, Category 2

H373

### 2.2. GHS Label elements, including precautionary statements

Hazard pictograms (GHS AU)





Exclamation Health hazard

mark : Warning

Signal word (GHS AU)

Contains : ethylene glycol monobutyl ether (0-100 %)

Hazard statements (GHS AU) : H227 - Combustible liquid

H302+H332 - Harmful if swallowed or if inhaled

H315 - Causes skin irritation H319 - Causes serious eye irritation

H373 - May cause damage to organs through prolonged or repeated exposure

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Precautionary statements (GHS AU) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read carefully and follow all instructions.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

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

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.

#### 2.3. Other hazards which do not result in classification

No additional information available

### **SECTION 3: Composition and information on ingredients**

Name	CAS-No.	%
ethylene glycol monobutyl ether	111-76-2	0 – 100

#### **SECTION 4: First aid measures**

### 4.1. Description of necessary first-aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a

doctor if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse immediately with plenty of water. Removal of contact lenses after an eye injury should

only be undertaken by skilled personnel. If eye irritation persists: Get medical

advice/attention.

First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

#### 4.2. Symptoms caused by exposure

Symptoms/effects after skin contact : Irritation.
Symptoms/effects after eye contact : Eye irritation.

#### 4.3. Medical attention and special treatment

Other medical advice or treatment : Treat symptomatically.

### **SECTION 5: Fire-fighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. Unsuitable extinguishing media : Unsuitable extinguishing media are not known.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid.

General measures : No action shall be taken without appropriate training or involving any personal risk. Notify

authorities if product enters sewers or public waters.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exercise caution when fighting any chemical fire. Keep upwind. Fight fire from safe distance

and protected location.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

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#### **SECTION 6: Accidental release measures**

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

General measures

: No action shall be taken without appropriate training or involving any personal risk. Notify authorities if product enters sewers or public waters.

#### 6.1.1. For non-emergency personnel

**Emergency procedures** 

: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and materials for containment and cleaning up

Methods for cleaning up

 Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Do not breathe

dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid

contact with skin and eyes.

Hygiene measures

: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Does not require any specific or particular technical measures.

Storage conditions

: Store in a well-ventilated place. Keep cool.

Information on mixed storage

: Store away from incompatible materials and products. Refer to the detailed list of

incompatible materials in section 10 Stability/Reactivity.

Storage area

: Keep out of direct sunlight.

Special rules on packaging

: Position containers so that any labeling information is visible. Keep packaging closed when

not in use. Check containers and packaging regularly for leaks and damage.

Packaging materials : Keep only in original packaging.

### **SECTION 8: Exposure controls and personal protection**

### 8.1. Control parameters - exposure standards

ethylene glycol monobutyl ether (111-76-2)		
Australia - Occupational Exposure Limits		
Local name	2-Butoxyethanol (Butyl cellosolve; Butyl glycol; Ethylene glycol monobutyl ether; Glycol monobutyl ether)	
OES TWA [1]	96.9 mg/m³	
OES TWA [2]	20 ppm	
OES STEL	242 mg/m³	
OES STEL [ppm]	50 ppm	
Remark (AU)	Sk - Absorption through the skin may be a significant source of exposure.	

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Regulatory reference Workplace exposure standards for airborne contaminants (2019)

#### 8.2. Monitoring methods

Monitoring methods : Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents. Gas detectors should be used when toxic gases may be

released. Gas detectors should be used when flammable gases/vapours may be released.

#### 8.3. Engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Use spark-/explosionproof appliances and lighting system. Use grounded electrical/mechanical equipment.

#### 8.4. Individual protection measures, such as personal protective equipment (PPE)

Personal protective equipment : Personal protective equipment (PPE) must be suited to the nature of the work and any

hazard associated with the work as identified by the risk assessment conducted.

Avoid all unnecessary exposure. Ocular shower with suitable liquid.

Hand protection : Wear protective gloves: Antistatic gloves

Eye protection : Wear eye protection: Chemical goggles or safety glasses

Skin and body protection : Wear protective clothing: Antistatic clothing, Flame retardant protective clothing. Wear foot

protection

Respiratory protection : Wear appropriate mask: Combined gas/dust mask with filter type

#### Personal protective equipment symbol(s)













Consumer exposure controls

Other information

- : Personal protective equipment (PPE) is not required when handling individual retail pack.
- PPE compliant to the recommended standards should be selected. The following Australian and New Zealand Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Industrial Clothing: AS2919, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.

### **SECTION 9: Physical and chemical properties**

Physical state : Liquid

Appearance : Clear yellowish colour liquid with mild sweet smelling odour.

Molecular mass : Not applicable
Colour : Colourless
Odour : Not available
Odour threshold : No data available
pH : Not available
pH solution : Not available
Relative evaporation rate (butylacetate=1) : No data available

Melting point / Freezing point : Melting point: Not available

Boiling point : 170.8 °C

Flash point : 68 °C

Auto-ignition temperature : Not available

Decomposition temperature : Not available

Flammability : No data available

Vapour pressure : Vapour pressure: 0.1 kPa

Relative density : Relative vapour density at 20°C: Not available. (Air=1).

Density : Relative density: 0.902 (Water = 1).

Solubility : No data available
Partition coefficient n-octanol/water (Log Pow) : Not available
Viscosity, kinematic : Not available
Explosive properties : No data available
Explosive limits : No data available

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Minimum ignition energy : No data available VOC content : Not available Fat solubility : No data available

#### **SECTION 10: Stability and reactivity**

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

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.

Conditions to avoid : Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of

gnition.

Incompatible materials : Strong acids. Strong bases. Strong oxidizers.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not

be produced.

### **SECTION 11: Toxicological information**

Acute toxicity (oral) : Harmful if swallowed.

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Harmful if inhaled.

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ethylene glycol monobutyl ether (111-76-2)		
	1414 mg/kg bodyweight Animal: guinea pig, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1020 - 1961	
LD50 dermal rat	> 2000 mg/kg Source: ECHA	

1414 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.

pH: Not available

1.5 mg/l/4h

Serious eye damage/irritation : Causes serious eye irritation.

pH: Not available

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

### ethylene glycol monobutyl ether (111-76-2)

NOAEL (dermal, rat/rabbit, 90 days)	> 150 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study), Remarks on results: other:	
STOT-repeated exposure	ded exposure May cause damage to organs through prolonged or repeated exposure.	

Aspiration hazard : Not classified

#### **DS Solvent**

DS Solvent
ATE AU (oral)

ATE AU (dust, mist)

Viscosity, kinematic Not available

### ethylene glycol monobutyl ether (111-76-2)

Animal studies and expert judgment for classification False

### **SECTION 12: Ecological information**

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

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### 12.1. Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term (acute)

: Not classified

Hazardous to the aquatic environment, long-term

: Not classified

(chronic)

ethylene glycol monobutyl ether (111-76-2)		
LC50 - Fish [1]	1474 mg/l Source: ECHA	
EC50 - Crustacea [1]	1800 mg/l Source: ECHA	
NOEC (chronic)	100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC chronic fish	≥ 100 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'	
Partition coefficient n-octanol/water (Log Pow)	0.81 Source: ECHA	

#### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

DS Solvent	
Partition coefficient n-octanol/water (Log Pow)  Not available	
ethylene glycol monobutyl ether (111-76-2)	
Partition coefficient n-octanol/water (Log Pow) 0.81 Source: ECHA	

### 12.4. Mobility in soil

DS Solvent	
Partition coefficient n-octanol/water (Log Pow)  Not available	
ethylene glycol monobutyl ether (111-76-2)	
Partition coefficient n-octanol/water (Log Pow) 0.81 Source: ECHA	

#### 12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

DS Solvent	
Fluorinated greenhouse gases	False
ethylene glycol monobutyl ether (111-76-2) Fluorinated greenhouse gases False	

### **SECTION 13: Disposal considerations**

 $: \ \, \text{Dispose of contents/container in accordance with licensed collector's sorting instructions}.$ Waste treatment methods

### **SECTION 14: Transport information**

ADG	IMDG	IATA
14.1. UN number		
Not regulated for transport	Not regulated for transport	Not regulated for transport

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ADG	IMDG	IATA	
14.2. UN Proper Shipping Name			
Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	
14.4. Packing group			
Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	

#### 14.6. Special precautions for user

Specific storage requirement : No data available Shock sensitivity : No data available

#### 14.7. Additional information

Other information : No supplementary information available

#### Transport by road and rail

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### 14.8. Hazchem or Emergency Action Code

Hazchem Code : Not applicable

### **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations specific for the product in question

### Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AICIS : Listed

Inventory) status

#### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Relevant Poisons Schedule number : Schedule 6

### 15.2. International agreements

No additional information available

### **SECTION 16: Other information**

#### Indication of changes:

Update of the SDS from former GHS version to the 7th edition of the GHS (GHS 7).

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Data sources : Safe Work Australia - Code of Practice - Preparation of Safety Data Sheets for Hazardous

Safe Work Australia - Code of Practice - Labelling of Workplace Hazardous Chemicals

Safe Work Australia - Workplace Exposure Standards for Airborne Contaminants

Safe Work Australia - Hazardous Chemical Information System (HCIS)

Australian Inventory of Industrial Chemicals (AICIS Inventory)

Environmental Protection Authority - Hazardous Substances (Hazard Classification) Notice 2020

Environmental Protection Authority - Hazardous Substances (Safety Data Sheets) Notice 2017

Environmental Protection Authority - Hazardous Substances (Labelling) Notice 2017

New Zealand - Chemical Classification and Information Database (CCID)

New Zealand - Inventory of Chemicals (NZIoC)

European Chemicals Agency (ECHA) - Annex VI (C&L Inventory)
European Chemicals Agency (ECHA) - REACH Study Results

European Chemicals Agency (ECHA) - REACH Registration Dossiers

United Nations - Globally Harmonised System of Classification and Labelling of Chemicals

Uniform Scheduling of Medicines and Poisons (SUSMP)

United Nations Recommendations on the Transport of Dangerous Goods (UNRTDG Model Regulation)

Australian Dangerous Goods Code (ADG Code)

International Air Transport Association Dangerous Goods Regulations (IATA DGR)

International Maritime Dangerous Goods (IMDG Code).

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Classification	
Flam. Liq. 4	H227
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
STOT RE 2	H373

Full text of H-statements	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Acute Tox. 5 (Dermal)	Acute toxicity (dermal), Category 5
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq. 4	Flammable liquids, Category 4
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
H227	Combustible liquid
H302	Harmful if swallowed
H313	May be harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled

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Full text of H-statements	
H373	May cause damage to organs through prolonged or repeated exposure

Safety Data Sheet (SDS), Australia

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.