



Product Name: MILD SOLVENT WASHING LIQUID

Cleaning Solution 200 for Solvent Ink

SDS No. 037-C032028

First issue: 2017/04/17

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## Safety Data Sheets

### 1. Identification

Product Name : MILD SOLVENT WASHING LIQUID  
Cleaning Solution 200 for Solvent Ink

Order No. : SPC-0294 / SPC-0369

General Use : Cleaning solution for ink jet printer

Product Description : Solvent clear liquid

SDS Number : 037-C032028

Manufacture

Company Name : Mimaki Engineering Co., Ltd.

Address : 2182-3 Shigeno-otsu, Tomi-shi, Nagano 389-0512 JAPAN

Telephone No. : +81-268-64-2413

Importer / Distributor Established in Australia

Company Name : MIMAKI AUSTRALIA PTY LTD.

Address : Unit 14, 38-46 South Street, Rydalmere, NSW 2116, Australia

Telephone No. : + 61-2-8036-4500

Emergency Telephone No. : +61 2 8014 4558 (within Australia only)  
18000 74234 (within Australia only)  
+65 3158 1074

### 2. Hazards Identification

#### [GHS Classification]

##### Physical Hazards

Flammable Liquids : Category 4

##### Health Hazards

Eye Damage / Irritation : Category 2

Specific Target Organ Toxicity : Category 3

(Single Exposure) (Respiratory irritation, drowsiness or dizziness)

The above list does not include category being non-classifiable or not-applicable.

#### [GHS Label Elements]

## Safety Data Sheets

Symbol



Signal Word

Warning

## Hazard Statements

H227 Combustible liquid

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

## Precautionary Statements

[Prevention]

P210 Keep away from open flames and other ignition sources. No smoking.

P261 Avoid breathing gas/mist/vapours.

P264 Wash hands and eyes thoroughly after handling.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

[Response]

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER/doctor if you feel unwell.

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

P370+P378 In case of fire: Use Alcohol-resistant-related fire foam for extinguish.

[Storage]

P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

P405 Store locked up.

[Disposal]

P501 Dispose of contents and container in accordance with local, regional, national and international regulation (to be specified).

HMIS Rating (scale 0 – 4)

Health = 1

Flammability = 2

Reactivity = 1

Protective Equipment = B

①	Health
②	Flammability
①	Reactivity
B	Protective Equipment

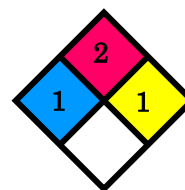
NFPA Rating (scale 0 – 4)

Health = 1

Flammability = 2

Instability = 1

Special = 0



CANADIAN WHMIS SYMBOLS : Not applicable (Manufactured article)

# Safety Data Sheets

## 3. Composition / Information on Ingredients

### Mixtures

Chemical Name	Wt%	CAS No.	Chemical Formula
Bis(2-ethoxyethyl)ether	35-45	112-36-7	C <sub>7</sub> H <sub>16</sub> O <sub>3</sub>
(2-Methoxymethylethoxy)propanol	35-45	34590-94-8	C <sub>8</sub> H <sub>18</sub> O <sub>3</sub>
Triethylene glycol monomethylether	15-25	112-35-6	C <sub>7</sub> H <sub>16</sub> O <sub>4</sub>

## 4. First Aid Measures

Skin Contact	<p>: Immediately take off all contaminated clothing.</p> <p>Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.</p> <p>Wash thoroughly the body (shower or bath).</p> <p>Remove contaminated clothing immediately and dispose off safely.</p> <p>After contact with skin, wash immediately with soap and plenty of water.</p>
Eye Contact	<p>: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p>
Ingestion	<p>: Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.</p>
Inhalation	<p>: Remove casualty to fresh air and keep warm and at rest.</p>
Most important symptoms and effects, both acute and delayed	<p>: none</p>
Indication of any immediate medical attention and special treatment needed	<p>: In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).</p> <p>Treatment: None</p>

## 5. Fire Fighting Measures

Flammable Properties	: Flash point : 76 °C / 169 ° F
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Extinguishing Media : CO2 or Dry chemical fire extinguisher.

Unsuitable Extinguishing Media : None in particular.

Media

Special hazards arising : Do not inhale explosion and combustion gases.

from the substance or : Burning produces heavy smoke.

mixture

Advice for firefighters : Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

### 6. Accidental Release Measures

Personal precautions, : Wear personal protection equipment.  
protective equipment : Remove persons to safety.  
and emergency : See protective measures under point 7 and 8.  
procedures

Environmental : Do not allow to enter into soil/subsoil. Do not allow to enter into  
precautions: surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

Methods and material for : Wash with plenty of water.  
containment and  
cleaning up

Reference to other : See also section 8 and 13  
sections

### 7. Handling and Storage

Precautions for safe : Avoid contact with skin and eyes, inhalation of vapours and mists.

handling : Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

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	Contaminated clothing should be changed before entering eating areas.
	Do not eat or drink while working.
	See also section 8 for recommended protective equipment.
Conditions for safe storage, including any incompatibilities	: Keep away from food, drink and feed. Incompatible materials: None in particular. Instructions as regards storage premises: Adequately ventilated premises.
Specific end use(s)	: None in particular

## 8. Exposure Controls / Personal Protection

Control parameters	: No occupational exposure limit available
DNEL Exposure Limit Values	: <b>Bis(2-ethoxyethyl) ether - CAS: 112-36-7</b> Worker Industry: 5.96 mg/m <sup>3</sup> - Exposure: Human Inhalation Worker Industry: 1.71 mg/kg/day - Exposure: Human Oral Worker Professional: 50.05 mg/m <sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Worker Professional: 3.43 mg/kg/day - Exposure: Human Dermal - Frequency: Long Term, systemic effects
PNEC Exposure Limit Values	: <b>Bis(2-ethoxyethyl) ether - CAS: 112-36-7</b> Target: Fresh Water - Value: 0.001 mg/l Target: Freshwater sediments - Value: 0.007 mg/kg Target: Marine water - Value: 0.0001397 mg/l Target: Marine water sediments - Value: 0.0006778 mg/kg Target: Air - Value: 0.000001105 mg/m <sup>3</sup>

Legend:

DNEL: Derived No Effect Level, PNEC: Predicted No Effect Concentration

### Exposure Controls

#### Occupational Exposure Controls

Engineering Controls	: Use exhaust ventilation to avoid from exposure.
Eye protection	: Not needed for normal use. Anyway, operate according good working practices.
Protection for skin	: Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.
Protection for hands	: Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

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Respiratory : Not needed for normal use.

protection

Thermal Hazards : none

Environmental : none

exposure controls

### 9. Physical and Chemical Properties

[Information on basic physical and chemical properties]

Appearance - Physical State : liquid

- Color : Clear

Odor : Slightly

Odour threshold : No data available

pH : Not Relevant

Melting point / freezing point : No data available

Initial boiling point and boiling range : No data available

Solid/gas flammability : No data available

Upper/lower flammability or explosive limits : No data available

Vapour density : No data available

Flash point : 76 °C / 169 ° F (Cleveland open cup method, JIS K2265-4)

Evaporation rate : No data available

Vapour pressure : No data available

Relative density : No data available

Solubility in water : Slightly soluble

Solubility in oil : No data available

Partition coefficient (n-octanol/water) : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Explosive properties : No data available

Oxidizing properties : No data available

[Other information]

Miscibility : No data available

Fat Solubility : No data available

Conductivity : No data available

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### 10. Stability and Reactivity

Reactivity	: Stable under normal conditions.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: none
Conditions to avoid	: Stable under normal conditions.
Incompatible materials	: None in particular.
Hazardous decomposition products	: none

### 11. Toxicological Information

[Information on toxicological effects]

Toxicological information of the mixture

acute toxicity	: Test: LD50 - Route: Oral - Species: Rat > 2500 mg/kg Test: LD50 - Route: Dermal - Species: Rat > 2000 mg/kg
skin	: Test: Skin Irritant - Species: Rabbit Mild irritant
corrosion/irritation	
serious eye	: Test: Eye Irritant - Species: Rabbit Mild irritant
damage/irritation	
respiratory or skin	: Test: Skin Sensitisation - Route: Maximisation Assay - Species:
sensitisation	Guinea pig Non-sensitiser
germ cell	: Test: Mutagenesis - Species: Salmonella Typhimurium and
mutagenicity	Escherichia coli Negative

Toxicological information of the main substances found in the mixture

**Bis(2-ethoxyethyl) ether - CAS: 112-36-7**

acute toxicity	: Test: LD50 - Route: Oral - Species: Rat = 4970 mg/kg - Notes: OECD TG No.401
serious eye	: Test: Eye Irritant - Species: Rabbit Non-irritant - Notes: OECD TG
damage/irritation	No.405

**Triethylene glycol monomethylether - CAS: 112-35-6**

acute toxicity	: Test: LD50 - Route: Oral > 10500 mg/kg
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Substance(s) listed on the IARC Monographs

: None.

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### 12. Ecological Information

Handling is noted because it might influence the environment when leaking and abandoning it. Especially, note that the product doesn't flow directly to ground, the river, and the drain ditch.

Toxicity : **Bis(2-ethoxyethyl) ether - CAS: 112-36-7**

Aquatic acute toxicity

Endpoint: LC50 - Species: Fish > 10000 mg/l - Duration h: 96

Endpoint: LC50 - Species: Daphnia = 6600 mg/l - Duration h: 96

Persistence and : No data available

Degradability

Bioaccumulative : No data available

Potential

Mobility in soil : No data available

Results of PBT and : vPvB Substances: None - PBT Substances: None

vPvB assessment

Other Adverse Effects : none.

### 13. Disposal Considerations

Waste treatment : Recover if possible. In so doing, comply with the local and national  
methods regulations currently in force.

### 14. Transport Information

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

UN number : Not classified as dangerous in the meaning of transport regulations.

UN proper shipping : No data available.  
name

Transport hazard : No data available.  
class(es)

Packing group : No data available.

Environmental hazards : No data available.

Special precautions for : No data available.  
user



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Transport in bulk : No data available.  
according to Annex II of  
MARPOL73/78 and the  
IBC Code

## 15. Regulatory Information

### [EU Information]

: Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)

Restrictions related to the product or the substances contained according to Annex XVII  
Regulation (EC) 1907/2006 (REACH) and subsequent modifications

Restrictions related : Restriction 3  
to the product

Restrictions related : No restriction  
to the substances  
contained

Where applicable, : Directive 2003/105/CE ('Activities linked to risks of serious  
refer to the following accidents') and subsequent amendments.  
regulatory provisions Regulation (EC) nr 648/2004 (detergents).  
1999/13/EC (VOC directive)

:

Provisions related to : No data available  
directives  
82/501/EC(Seveso),  
96/82/EC(Seveso II)

### [USA Information]

TSCA - Toxic : TSCA inventory: all the components are listed on the TSCA



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Substances Control Act	inventory. TSCA listed substances: Bis(2-ethoxyethyl) ether is listed in TSCA Section 5a - SNUR, Section 12b (2-Methoxymethylethoxy)propanol is listed in TSCA Section 8a - PAIR.
SARA - Superfund Amendments and Reauthorization Act	: Section 302 – Extremely Hazardous Substances: no substances listed. Section 304 – Hazardous substances: no substances listed. Section 313 – Bis(2-ethoxyethyl) ether, Triethylene glycol monomethylether.
CAA - Clean Air Act	: CAA listed substances: Bis(2-ethoxyethyl) ether is listed in CAA Section 111, Section 112. Triethylene glycol monomethylether is listed in CAA Section 112, Section 112(b) - HAP, Section 112(b) - HON.
California Proposition 65	: Substance(s) listed under California Proposition 65: None.
[Canada Information]	
WHMIS Controlled Product	: Not applicable (Manufactured article)
[Australia Information]	
Statement of Hazardous Nature	: Classified as Toxic and Irritant according to criteria of NOHSC
[New Zealand Information]	
Hazardous Substances and New Organisms Act 1996	: Not regulated
Chemical safety assessment	: No.

### 16. Other Information

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Mimaki Engineering Corporation.

It relates only to the specific material designated herein, and does not relate to use in combination with any other material or process.



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