

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the substance or preparation

Product Name : SS2 Cleaning Solution 500

Product Code : SPC-0478

1.2. Use of the substance/preparation

General Use : For ink jet

Product Description : Washing liquid

1.3. Company/undertaking identification

MANUFACTURER

Company Name : Mimaki Engineering Co., Ltd

Address : 2182-3 Otsu, Shigeno, Tomi-shi, Nagano 389-0512 Japan

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

Charge post : Inks and Media Division

Person in charge : Isao Tabayashi

E-mail address : tabayashi@mimaki.jp

IMPORTER/DISTRIBUTOR ESTABLISHED IN EU

Company Name : MIMAKI EUROPE B.V.

Address : Joan Muyskenweg 42-44, 1099CK Amsterdam

Telephone No. : +31-20-4627-640

Person in charge : Sakae Sagane

1.4. Emergency telephone

EMERGENCY : Mimaki Engineering Co., Ltd +81-268-64-2413

TELEPHONE : National Vaccine Information Center (NVIC)

NUMBER : +31-30-274888

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW :

Clear, flammable liquid

Irritating to eyes, skin and respiratory tract.

This product is classified as 'Irritant' and 'Harmful'.



Xi, Xn

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POTENTIAL HEALTH EFFECTS

- Inhalation : May cause sensitization by inhalation.
 Eye : R41 Risk of serious damage to the eyes.
 Skin : May cause sensitization by skin contact.
 Ingestion : R22 Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

No	Chemical Name	Wt%	CAS No.	EINECS No.	Symbol letters	Risk Phrase	Chemical Formula
1	Diethylene glycol derivative	80~90	Trade Secret	Trade Secret	NC	NC	Trade Secret
2	Lactone compound	10~20	Trade Secret	Trade Secret	Xn	22,36	Trade Secret

*The wording of the symbol(s) and risk phrase(s) is specified in 16.OTHER INFORMATION.

4. FIRST AID MEASURES

INHALATION If inhaled, immediately remove to fresh air and keep warm and calm. If breathing irregularly or not breathing, give artificial respiration. Keep from swallowing vomit. Consult a doctor immediately. If inhaled and feeling sick, remove to fresh air, keep warm and calm and consult a doctor

EYE Flush eyes with plenty of water for at least 15 minutes. Consult a doctor immediately.

SKIN Immediately remove from skin with cloth. Flush thoroughly with plenty of water and soap or skin detergent. Do not use solvent or thinner. Consult a doctor in case of change of appearance or ache.

INGESTION If swallowed, keep calm and consult a doctor immediately. Keep from swallowing vomit.

PROTECTION TO FIRST-AIDERS

: Wear a tool for appropriate protection. Ventilate.

NOTE TO PHYSICIAN

: Treatment may vary with condition of victim and specifics of incident.

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5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES

: The harmful gas such as carbon monoxide or the low molecule monomer occurs by combustion.

Flash point: 70.5 degree C

Ignition point: 169 degree C

EXTINGUISHING MEDIA

: CO₂, foam, powder, dry sand. Never splash water.

FIRE FIGHTING INSTRUCTIONS

: Use proper protection (heat-resisting clothes, etc.).

Promptly remove flammables.

Wear full fire-fighting turn-out gear (full bunker gear) and respiratory protection (self-contained breathing apparatus).

6. ACCIDENTAL RELEASE MEASURES

Contain spilled liquid with sand or earth.

DO NOT use combustible materials, such as sawdust.

The very fine particles can cause fire or explosion.

Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

The material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

7. HANDLING AND STORAGE

HANDLING : Use proper protection (gloves, masks, aprons, goggles, etc.)

Handle in well-ventilated area.

Prohibit use of fire, sparks or heat source.

Ground equipment against electrostatics and use explosion-proof electric equipment. Use spark-proof tools.

Keep used cloths, waste paints or spray dusts in water until disposal.

Use local exhaust system and proper protection if working in closed area.

STORAGE : Keep from sunlight. Store in well-ventilated area.

Keep from open fire or heat source.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values

Not Applicable

8.2. Exposure controls

8.2.1. Occupational exposure controls

Engineering Controls : Use explosion-proof handling equipment.
Use exhaust system to prevent vapor build-up
Ground transporting, scooping, agitating or other liquid handling equipment.
Keep heat or fire sources from handling area.
If working indoors, use automatic coating machine or other proper equipment to protect workers from direct exposure or use local exhaust system to protect workers from exposure.

Personal Protection

Respiratory Protection : Wear gas masks for organic gases.
Wear ventilation masks when working in closed area.
Hand Protection : Wear gloves that resist organic solvents and chemicals.
Eye Protection : Wear coverall, chemical goggles and face shield when handling.
Skin Protection : To prevent ANY contact, wear impervious clothing such as gloves, apron, boots, or whole body suits made from neoprene, as appropriate.

8.2.2. Environmental exposure controls

: Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance - Physical state : liquid
- Colour : clear
Odour : Slight solvent odor

9.2. Important health, safety and environmental information

pH : Not available
Boiling Point / Boiling Range : Not available
Flash Point : 70.5 degree C
Flammability(solid, gas) : Not available
Vapour Pressure : <133Pa (20 degree C)

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Relative density	: Not available
Solubility	: Not available
Water solubility	: No
Viscosity	: Not available

9.3. Other information

Melting Point / Melting Range	: Not available
Auto-Ignition Temperature	: 169 degree C
Specific Gravity	: 0.954±0.01 (20 degree C)

10. STABILITY AND REACTIVITY

CONDITONS TO AVOID : Excessive heat and cold. Sparks. Ignition sources.
Direct sunlight. High humidity.

STABILITY : Stable

MATERIALS TO AVOID : Strong acid. Strong bases.

HAZARDOUS : Will not occur.

DECOMPOSITION : To burn this product may be produce toxic gases such as CO and
PRODUCTS low-molecular-weight monomers.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	: Oral	Diethylene glycol derivative	LD50 rat 6,500 mg/kg
		Lactone compound	LD50 rat 1,540 mg/kg
	: Dermal	Not available	
	: Inhalation	Not available	
EYE IRRITATION	: Lactone compound		
		Irritating to eyes. (rabbit eyes, OECD Guideline 405)	
SKIN IRRITATION	: Diethylene glycol derivative	P.I.I 2.5 (Draiza)	
SENSITIZATION	: Not available		
MUTAGENICITY	: Not available		

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.

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ECOTOXICITY : Not available
PERSISTENCE AND DEGRADABILITY : Not available
BIOACCUMULATIVE POTENTIAL : Not available
RESULTS OF PBT ASSESSMENT : Not available
OTHER ADVERSE EFFECTS : Not available

13. DISPOSAL CONSIDERATIONS

Have waste liquids, containers and other materials disposed of by licensed industrial waste contractors.

Keep waste liquids from flushing containers, machines or other equipment from flowing directly to the ground or drainage.

Dispose of wastes from drainage, combustion, etc, in compliance with laws and regulations on waste disposal or cleaning, or have them disposed of by contractors.

To avoid harmful gases, do not use incinerators without flushing systems to burn wastes and other materials.

Comply with all EU, national and local regulations.

Do not dump this product into sewers, on the ground or into any body of water.

14. TRANSPORT INFORMATIONS

Check a thing without a leak in a container.

Perform prevention of collapse of cargo surely.

LAND TRANSPORT

ADR, RID Class : No classification assigned.

SEA TRANSPORT

IMDG Class : No classification assigned.

AIR TRANSPORT

ICAO/IATA Class : No classification assigned.

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15. REGULATORY INFORMATION

This product is classified as follows and labeled accordingly.

Symbol : Xn (Harmful)

Risk Phrase

22 Harmful if swallowed.

41 Risk of serious damage to the eyes.

Safety Advise

25 Avoid contact with eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

39 Wear eye / face protection.

Please refer to any other EU, national and local measures.

16. OTHER INFORMATION

From clause 3

Symbol letters Xn Harmful

Risk phrase : 22 Harmful if swallowed.

 36 Irritating to eyes.

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Revision history

Version	Date	Content
1.0	2008/03/21	First issue