



Product Name: Sb210 maintenance
Washing liquid
MSDS No.: 031-37C110B
First issue: Apr 20, 2011
Revised:
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Material Safety Data Sheets

CONSIDERED A HAZARDOUS SUBSTANCE ACCORDING TO OSHA 29 CFR 1910.1200.

1. Product and Company Identification

Product Name : Sb210 maintenance washing liquid
Product Code : SPC-0701
General Use : Machine maintenance
Product Description : Washing liquid
MSDS Number : 031-37C110B
Manufacture : -
Company Name : Mimaki Engineering Co., Ltd
Address : 2182-3 Otsu, Shigeno, Tomi-shi, Nagano 389-0512 Japan
Telephone No. : +81-268-64-2413
Importer/Distributor Established in USA
Company Name : MIMAKI USA. INC.
Address : 150 Satellite Boulevard, suite A, Suwanee, Georgia 30024, U.S.A
Telephone No. : 1-678-730-0100
Emergency Telephone No. : +81-268-64-2413

2. Hazards Identification

WARNING!

Emergency Overview : May be harmful if swallowed or if inhaled, or absorbed through skin
May cause skin, eye, and respiratory tract irritation
May produce an allergic reaction
Vapors may be irritating to eyes, nose, throat, and lungs
May cause central nervous system depression
Contains a known or suspected reproductive toxin

Appearance : Clear

Physical State : Liquid

Odor : Specific

Potential Health Effects

Principle Routes of Exposure : Inhalation. Skin contact. Eye contact.

Acute Toxicity
Eyes : May cause irritation.



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- Skin : May be harmful in contact with skin. May be harmful if absorbed through skin. May cause irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
- Inhalation : May be harmful if inhaled. May cause irritation of respiratory tract. Exposure to high concentrations of vapor may cause central nervous system depression.
- Ingestion : May be harmful if swallowed. May cause additional affects as listed under "Inhalation".
- Chronic Effects : May cause central nervous system depression. Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. Contains a known or suspected reproductive toxin.
- Aggravated Medical Conditions : Allergies. Skin disorders. Respiratory disorders. Central nervous system. Pre-existing eye disorders. Reproductive toxicity.
- Environmental Hazard : See Section 12 for additional Ecological Information.

3. Composition / Information On Ingredients

SUBSTANCE/MIXTURE : Mixture

No	Chemical Name	Wt%	CAS No.	Chemical Formula
1	Benzisothiazolinone l	15-40	2634-33-5	
2	Dipropylene glycol monomethyl ether	1-5	34590-94-8	
3	Methyl pyrrolidone	1-5	872-50-4	
4	Water	50-70	7732-18-5	H ₂ O

OSHA Hazardous : Not hazardous.

Components
(29 CFR 1910. 1200)

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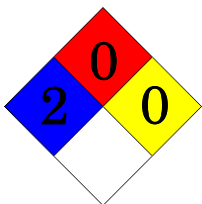
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4. First Aid Measures

- General Advice : If symptoms persist, call a physician.
- Eye Contact : I Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
- Skin Contact : Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.
- Inhalation : Move to fresh air in case of accidental inhalation of vapors. If breathing is difficult, give oxygen. If symptoms persist, call a physician.
- Ingestion : Call a physician or Poison Control Center immediately. Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person.
- Notes to Physician : May cause sensitization of susceptible persons. Treat symptomatically.

5. Fire Fighting Measures

- Flammable Properties : Not flammable.
- Flash Point : Not determined.
- Suitable Extinguishing : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Media
- Explosion Data
- Sensitivity to Mechanical Impact : None
- Sensitivity to Static Discharge : None
- Protective Equipment and Precautions for Firefighters : As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA	
Health Hazard : 2	
Flammability : 0	
Instability : 0	
Physical and Chemical Hazards : -	

HMIS	
Health Hazard : 2	
Flammability : 0	
Physical Hazard : 0	
Personal Protection : -	



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6. Accidental Release Measures

- Personal Precautions : Use personal protective equipment. Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.
- Environmental Precautions : Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Refer to protective measures listed in Sections 7 and 8.
- Methods for Containment : Prevent further leakage or spillage if safe to do so. Prevent spillage from entering drains.
- Methods for Cleaning Up : Use personal protective equipment. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water.

7. Handling And Storage

- Handling : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition.
- Storage : Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.

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8. Exposure Controls / Personal Protection

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Dipropylene glycol monomethyl ether 34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	(vacated) TWA: 100 ppm (vacated) TWA: 600 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 900 mg/m ³ (vacated) S*	IDLH: 600 ppm TWA: 100 ppm TWA: 600 mg/m ³ STEL: 150 ppm STEL: 900 mg/m ³
Sodium hydroxide 1310-73-2	Ceiling: 2mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits.

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value.

NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines : Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Engineering Measures : Showers
 Eyewash stations
 Ventilation systems

Personal Protective Equipment

Eye/Face Protection : Safety glasses with side-shields.



Skin and Body Protection : Wear protective gloves/clothing.



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Respiratory Protection : If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.



Hygiene Measures : When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

9. Physical And Chemical Properties

Appearance	- Physical state	: Liquid
	- Color	: Clear
Odor		: Specific
Odor Threshold		: No information available.
pH		: 6-8
Boiling Point / Boiling Range		: No information available.
Melting Point / Melting Range		: No information available.
Decomposition Temperature		: No information available.
Flash Point		: No information available.
Autoignition Temperature		: No information available.
Flammability Limits in Air		: No information available.
Explosion Limits		: No information available.
Vapor Pressure		: No data available
Specific Gravity		: 1.0-1.2(25 degree C)
Solubility		: No information available.
Water solubility		: Soluble in water
Viscosity		: 9-11mPa.s(25 degree C)
Vapor Density		: No data available
Evaporation Rate		: No information available
VOC Content (%)		: 4.32



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10. Stability And Reactivity

- Conditions to Avoid : None known based on information supplied.
- Stability : Stable under recommended storage conditions.
- Incompatible Products : Strong oxidizing agents. Alkalis. Acid anhydrides. Halogens.
- Hazardous : Carbon oxides. Nitrogen oxides (NO_x). Sulfur oxides.
- Decomposition Products
- Hazardous : Hazardous polymerization does not occur.
- Polymerization

11. Toxicological Information

Acute Toxicity

Product Information : May be harmful by inhalation, ingestion, or skin absorption.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dipropylene glycol monomethyl ether	5230 mg/kg (Rat)	9500 mg/kg (Rabbit)	-
Methyl pyrrolidone	3598 mg/kg (Rat)	2000 mg/kg (Rabbit) 2500 mg/kg (Rat)	3.1 mg/L (Rat) 4 h

Chronic Toxicity

Chronic Toxicity : May cause central nervous system depression. Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. Contains a known or suspected reproductive toxin.

Target Organ Effects : Central nervous system (CNS). Eyes. Respiratory system. Bone marrow. Lymphatic System. Thymus.



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12. Ecological Information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name		
Dipropylene glycol monomethyl ether	Toxicity to Algae	-
	Toxicity to Fish	LC50 96 h: > 10000 mg/L static (Pimephales promelas)
	Toxicity to Microorganisms	-
	Daphnia Magna (Water Flea)	LC50 48 h: = 1919 mg/L (Daphnia magna)
Methyl pyrrolidone	Toxicity to Algae	EC50 72 h: > 500 mg/L (Desmodesmus subspicatus)
	Toxicity to Fish	LC50 96 h: = 1072 mg/L static (Pimephales promelas) LC50 96 h: = 1400 mg/L static (Poecilia reticulata) LC50 96 h: = 4000 mg/L static (Leuciscus idus) LC50 96 h: = 832 mg/L static (Lepomis macrochirus)
	Toxicity to Microorganisms	-
	Daphnia Magna (Water Flea)	EC50 48 h: = 4897 mg/L (Daphnia magna)

Chemical Name	Log Pow
Benzisothiazolinone	1.3
Dipropylene glycol monomethyl ether	-0.064
Methyl pyrrolidone	-0.46



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13. Disposal Considerations

- Waste Disposal Methods : This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
- Contaminated Packaging : Do not re-use empty containers.

14. Transport Information

- DOT : Not regulated
TDG : Not regulated
- MEX : Not regulated
ICAO : Not regulated
IATA : Not regulated
IMDG/IMO : Not regulated
RID : Not regulated
ADR : Not regulated
ADN : Not regulated
- UN No.: Not regulated

15. Regulatory Information

International Inventories

- TSCA : Complies
DSL : Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations



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Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA).

This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

SARA 311/312 Hazard Categories

Acute Health Hazard	: Yes
Chronic Health Hazard	: Yes
Fire Hazard	: No
Sudden Release of Pressure Hazard	: No
Reactive Hazard	: No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA – Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide				X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations

California Proposition 65 : This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Methyl pyrrolidone	872-50-4	Developmental

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U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Dipropylene glycol monomethyl ether	X	X	X	X	X
Methyl pyrrolidone	X	X	X	-	-
Sodium hydroxide	X	X	X	-	X

International Regulations

Chemical Name	Carcinogen Status	Exposure Limits
Dipropylene glycol monomethyl ether		Mexico: TWA 100 ppm Mexico: TWA 60 mg/m ³ Mexico: STEL 150 ppm Mexico: STEL 900 mg/m ³
Sodium hydroxide		Mexico: Ceiling 2 mg/m ³

Canada

: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class : D2B Toxic materials



16. Other Information

General Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.



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Washing liquid

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Revision history

Version	Date	Content
1.0	Apr 20, 2011	First issue.