

**Anti freezing liquid**Issued date October 29<sup>th</sup> 2004**1. PRODUCT AND COMPANY IDENTIFICATION**Product Name: **Anti freezing liquid**Product Code: **SPC-0394**

## Company Identification

Manufacturer's Name / Supplier Address **Mimaki Engineering Co., Ltd.  
5-9-41 Kita Shinagawa, Shinagawa-ku Tokyo 14-0001**Phone Number / Fax **81-3-5420-8671 / 81-3-5420-8687**Contact Person **Masaaki Fujita**Emergency Phone Number **81-3-5420-8671****2. COMPOSITION / INFORMATION ON INGREDIENTS**SUBSTANCE/MIXTURE : **MIXTURE**

## INGREDIENTS AND COMPOSITION :

	COMPOSITION	CHEMICAL FORMULA	CAS REGISTRY NUMBER	UN CLASS UN NO.
Propylene glycol	55 ~ 60%	C <sub>3</sub> H <sub>8</sub> O <sub>2</sub>	57-55-6	Not applicable
Water	33 ~ 42%	H <sub>2</sub> O	-	Not applicable
Miscellaneous compounds	3 ~ 7%	-	-	Not applicable

**3. HAZARDS IDENTIFICATION**CLASS NAME OF HAZARDOUS  
CHEMICALS FOR SDS IN JAPAN : **Not applicable.**PHYSICAL AND CHMICAL HAZARDS: **May cause fire if water content is 10% or below.**ADVERSE HUMAN HEALTH HAZARDS: **Irritating of eyes. Harmful if swallowed.**ENVIRONMENTAL EFECTS: **This substance is biodegradable.**

## **4. FIRST-AID MEASURES**

### **EYE CONTACT**

Gently rinse the affected eye(s) with clean water for at least 15 minutes. Arrange for transport to the nearest medical facility for examination and treatment by a physician.

### **SKIN CONTACT**

Wash the affected area under tepid running water using a mild soap. In the case of skin contact at high temperature, cool the affected area with iced water after washing under running water. Remove all contaminated clothing, shoes and socks from the affected areas as quickly as possible. Refer for medical attention.

### **INHALATION (OF MIST)**

Remove the victim from the contamination immediately to fresh air.  
Keep the victim warm and quiet. Refer for medical attention.

### **INGESTION**

Rinse mouth with water. Give the person one or two glasses of water, try to get the victim to vomit by having the victim touch the back of their throat with finger. Do not give an unconscious person anything to drink. Arrange for transport to the nearest medical facility for examination and treatment by a physician as soon as possible. If the victim stops breathing, wipe away material off the lips and clear the airway and administer artificial respiration.

## **5. FIRE-FIGHTING MEASURES**

### **EXTINGUISHING MEDIA:**

In case of fire, use water spray, dry chemical power, carbon dioxide or alcohol-type foam.

### **SPECIFIC HAZARDS WITH REGARD TO FIRE-FIGHTING MEASURES**

Keep personnel removed from and upwind of fire.

Move container from fire areas if it can be done without risk. Apply water from a safe distance to cool and protect surrounding area. Firefighters should wear proper protective equipment. Toxic gases (carbon monoxide, nitrogen oxides) will form upon combustion. Spilled chemicals and flammable liquids should not be flushed down the drain or gutter or ditch without considering consequences.

## **6. ACCIDENTAL RELEASE MEASURES**

Evacuate non essential personnel. Shut off all sources of ignition; No flares, smoking or flames in area, and ventilate the area until material pick up is complete. Wear proper protective equipment. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container with covers for disposal, using nonsparking tools. For large spills, dike for later disposal. Remove leaking containers to a safe place, if feasible. Notify police and fire brigade. Prevent spills from entering sewers, watercourses or low areas.

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## 7. HANDLING AND STORAGE

### HANDLING

Make available in the work area emergency shower and eyes wash. Avoid contact with skin or eyes, and wear proper protective equipment if feasible. Keep container tightly closed. Protective against physical damage. Do not drop onto, or slide across sharp objects. Do not flush to sewer or waterways. Do not mix with any other chemical materials.

### STORAGE

It should be kept in tightly closed container. Store in cool, well-ventilated location. Keep away from heat, steam pipe or sunlight. Separate from oxidizing materials.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

CONTROL PARAMETERS : ACGIH(1993-94)

No data available.

### ENGINEERING MEASURES

Good general ventilation should be sufficient for most condition.

### PERSONAL PROTECTIVE EQUIPMENT:

#### RESPIRATORY PROTECTION (Fire-Fighting etc.);

Chemical cartridge respirator with an organic vapor cartridge or positive-pressure self-contained breathing apparatus..

#### EYE PROTECTION ;

Wear protective eyeglasses or chemical safety goggles.

#### HAND, SKIN AND BODY PROTECTION :

Impervious clothing. Chemical-resistant gloves, apron and impervious boots.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE ;Rouge liquid

DENSITY ;1.05g/cm<sup>3</sup>(20 ) BOILING POINT ;107 /101KPa  
(Initial boiling point)

MELTING POINT ; -40 Max. VAPOUR PRESSURE ;1.3KPa/20

SOLUBILITY IN WATER ;Miscible

SOLUBILITY IN BENZENE ;Insoluble

## 10. PHYSICAL HAZARD(STABILITY AND REACTIVITY)

FLASH POINT ;Not applicable

STABILITY ;This product is considered a stable material under normal condition and anticipated storage and handling condition. May ignite explosively if water content is 10% or below.

REACTIVITY ;May be explosive when mixed with oxidizing substance or strong acid

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY :

Oral LD<sub>50</sub> (rat, males) 43.0g/kg

Oral LD<sub>50</sub> (rat, females) 43.2g/kg

### CORROSIVE AND IRRITANT PROPERTIES:

As this product include small amounts of alkaline materials, the product is irritating to eye severely. Repeated or prolonged contact may cause skin sensitization.

## 12. ECOLOGICAL INFORMATION

### BIODEGRADABILITY :

This substance is biodegradable.

## 13. DISPOSAL CONSIDERATION

Burn in a chemical incinerator equipped with an afterburner and scrubber.

When water contents is high, dissolve or mix the material with a combustible fuel and burn in the incinerator. Do not flush into the sewer.

## 14. TRANSPORT INFORMATION

Keep away from oxidizing materials and source of ignition.

Follow all regulations in your country.

## 15. REGULATORY INFORMATION

The Mimaki Engineering CO., Ltd is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

## 16. OTHER INFORMATION

\* To the best of our knowledge, the information contained here in is accurate. However, neither Mimaki Engineering Co., Ltd. nor any subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of user. All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

End of MSDS