

# MATERIAL SAFETY DATA SHEET

## 1. Articles and Corporate Identification

Product Name Cleaning Liquid

Description: Cleaning Liquid For Pigment Ink

Color: Transparent

MSDS Code: CL

Effective Date: 2021-03-21

Company Address »

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## 2. Composition Information

Ingredients	AMT. (%)	CAS No.
1) glycol	5%	57-55-6
2) Triethylene glycol	10%	112-27-6
3) Triethylene glycol momobutyl ether	5%	143-22-6
4) surfactant	0.8%	9002-93-1
5) Water	79.2%	7732-18-5

## 3. Hazard Identification

### Potential Health Effects

■ When steam piles up, there is fear of ignition.

◆ There is a possibility of causing organic-solvent poisoning,

◆ Don't absorb Intentionally. In addition; the following condition may case.

\*It might start giddiness, headache, etc.

\*There is a slight anesthesia action.

\*Eyes, skin and a respiratory tract have a stimulus.



## Emergency Overview

Inflammable liquid when expose to existing fire and acute toxicity substance. Keep out of Children.

### 4. First Aid Measures

Eyes	Immediately flush with large amounts of water for 15 minutes, hold eyelid apart to ensure Irrigation. Get medical attention.
Skin	Wash skin thoroughly with soap and water. Remove contaminated clothing and wash thoroughly before reuse. Consult a physician If Irritation continues.
Inhalation	Remove individual to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician Immediately.
Ingestion	Remain calm. Seek the attention of a physician.

### 5. Fire Fighting Measures

Flammability	Combustible liquid under hazard communication standard. See Section 9 for Flash point.
Extinguishing Media	Dry Chemical, carbon dioxide, or alcohol foam or dry sand.
Fire Fighting Instruction	Water should not be used; however, it should be used to keep Fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained positive pressure or pressure-demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, facemask and protective covering for exposed areas of the head.

### 6. Accidental Release Measures

\*Wear certain protections (gloves, mask, apron, goggles, etc). ♦Outflow things are collected in the container, which can be sealed places, such as an outdoor open space.

\*An adhesion thing waste, etc. should take a measure based on a re \*The neighboring source of Ignition, a high temperature object, and n combustibles are removed quickly.

♦Prepare suitable fire extinguisher for the case of Hashing.



◆Collect Inks using tools, such as products made from a plastic to avoid sparks.

\*Absorb by nonflammable thing of dryness sand, the ground, and others.

For a lot of outflow, It encloses with the landfill to prevent outflow.

## 7. Precautions For Safe Handling and Use

### Handling

It is dealt with In a well-ventilated place.

A container is sealed each time.

Use of fire, a spark, and a high temperature thing is forbidden on the outskirts.

For the measure against static electricity, equipment etc. is grounded and electric apparatus uses a unit-explode type (safety type).

Tools of none sparks type are used.

Fabrics which are used for removal or wiping of inks etc. are soaked in water until they are abrogated

Wear suitable protection implements (glove, protection mask, apron, goggles, etc.) for work. Equip

sufficient exhaust systems when working in the sealed place, and wear suitable protection

Implements.

### Storage

\* Avoid direct rays of sunlight.

\*Keep at the place with sufficient ventilation.

\*Sore in the place of away from fire and a heat source, as well as oxidizing agents or explosives.

\*Do not store in high or freezing temperatures.

## 8. Exposure Control and Personal Protection

### Engineering Controls

\*A proper ventilator system must be equipped to prevent piling up steam.

\*A machine, which uses this Ink, must be taken ground.

\*Near the handing place, It considers as equipments with which the temperature and the source of Ignition Is not placed.

### Exposure Controls

\*Handling equipments must be none-exposure type.

### Personal Protection



◆Eyes: Use protects goggle.

\*Skin: The glove of the quality of the material with which the organic solvent or chemicals does not permeate Is worn.

## 9. Physical and chemical Properties

Appearance: Liquid Blue

Odor: slightly

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Boiling Point: 165 °C over

Steam Pressure: 500Pa(20 °C)

Density (water=1): 0.966

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Others: No specified

## 10. Stability and Reactivity

Flash Point: 72.2 °C (dosed cup)

Auto flammability: None

Explosion lowers 75%

Explosion upper limit: 10.8%

Danaerous substance with contact

\*No information

Generation of detrimental gas by Combustion etc

◆Detrimental gas, such as CO and a low numerator monomer, occurs. Other reactivity Information

\*No dangerous reaction under standard conditions.

## 11. Toxicological Information

◆Based on toxicology data of chemically similar material. Routes of overexposure: Eye Skin  
Inhalation and oral.

- Overexposure of eye surface to Ink may be mildly Irritating
- Overexposure of skin to Ink contact may cause Irritation and In some peo  
redness



-Intentional Inhalation overexposure to Ink vapors may result In respiratory tract Irritation and anesthesia  
-Intentional or accidental oral Ingestion may cause an upset stomach  
Chronic Health Hazards: None Known  
Toxicity Data: Oral LD50 Dermal LD50 Inhalant LC50  
>2500mg/kg (Rat)\* >2000mg/kg(Rat)\* No data available

The contents are created based on the data which can come to hand at present, Information, and date, since evaluation of danger and detrimental nature Is not necessarily enough, be careful of handling enough.

## 12. Ecological Information

◆Follow the appearance cautions, which do not affect environment in the cases, such as abandonment, at the time of disclosure.

## 13. Disposal Considerations

\*For disposal of wastes, such as waste fluid and a container, observe local regulations. \*The drainage, which washed a container, machine equipment, etc. is passing as It is neither to the ground nor a drain.  
\*For the waste generated by drainage processing, incineration, etc; observe local regulations.  
\*In carrying out incineration, processing of the waste etc., n order to generate detrimental gas, the incinerator without cleaning equipment is not used.  
\*Disposal should be In accordance with local requirement.

## 14. Transport Information

### Common

◆General cautions of the clause of the cautions on handling and sto

### Land transportation

\*When it corresponds to Fire Service Law and labor security and hy< appointed abort transportation of a statute Is followed.

### Marine transportation

\*The place set to Law for Safety of Vessels Is followed.

### Air transportation

◆Follow the Aviation Law. The goods Is non-dangerous, non-inflammable, non-hazardous material for air transportation safely in any nature by plane.



## 15. Regulatory Information

Industrial Safety and Health Law: Flammable material

PRTR: Not corresponded

Fire Defense Law: Hazardous material 4th category, 2nd Petroleum oil (Non- aqueous) UN Number: Not corresponded

EU Risk Phrase

R22/41

S25/26

## 16. Other information

This "Material Safety Data Sheet" contains health, safety, and environmental information. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. It does not replace any precautionary language or use and disposal information, which accompanies the product. We make no warranty, expressed or implied with regard to such information. We make no liability resulting from its use. Users should make their own investigations to determine the suitability for their particular purposes, It is subject to revision from time to time due to revision of laws and/or new knowledge.

