

Material Safety Data Sheet

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SECTION 1 Product Name: Clover Liquid for Fabric Folding Pen and Refill

SECTION 2 Component/Information on Ingredients

Substance/Mixture: Mixture

Ingredients and Composition

| Ingredients | CASNO. | %By Weight |
|----------------------------|------------|------------|
| Nonionic Surfactant | 84133-50-6 | 40 |
| Polyhydric Alcohol | 107-98-2 | 5 |
| Ethanol | 64-17-5 | 10 |
| Methyl parahydroxybenzoate | 99-76-3 | 2 |
| Water | — | 43 |

UN Hazard Class & NO.

Non-Hazardous Material

SECTION 3 Hazards Identification

| | |
|---|---------------------|
| Class name of hazardous for MSDS in Japan | N/A(Not applicable) |
| Physical and chemical hazards | N/A(Not applicable) |
| Adverse human health hazards | N/A(Not applicable) |
| Environmental effects | N/A(Not applicable) |

SECTION 4 First-Aid Measures

| | |
|--------------|--|
| Eye contact | Immediately wash the eyes with clean running water for at least. |
| Skin contact | Remove all contaminated clothing, from the affected areas as soon as possible and wipe the penetrant out by cloth. |
| Inhalation | Remove to fresh air. |
| Ingestion | Rinse the mouth well and take a medical attention. |

SECTION 5 Fire-fighting Measures

Specific hazards with regard to fire-fighting measures

Use appropriate extinguish media.

Cool surrounded equipment by water spray, if the fire may be spread.

Extinguishing media

Water, foam and dry chemical powder.

SECTION 6 Accidental Release Measures

Adsorb spill with sawdust or dry sand, then place in waste containers.

Wear protective equipment and place in waste containers as much as possible.

SECTION 7 Handling & Storage

Handling

Wear protective equipment. (safety glasses, gloves)

Safety mask is recommended if mists is generated during processing.

Storage

Store under the roof at room.

Seal container tight at time of storage and whenever not in use.

SECTION 8 Exposure Control / Personal Protection

| | |
|--------------------------------|---|
| Control parameters | ACGIH TLV: Not available |
| permissible parameters | 100ppm TWA Polyhydric Alcohol 150ppm STEL Polyhydric Alcohol |
| Engineering measures | Use exhaust ventilation according to circumstance. |
| Personal protection | Recommended |
| Eye protection | Recommended |
| Hand, Skin and body protection | Recommended |

SECTION 9 Physical & chemical Properties

| | |
|---------------------|--------------|
| Appearance and odor | clear liquid |
| Density | 0.96±0.02 |
| Boiling point | a solution |
| Solubility in water | ∞ |

SECTION 10 Physical Hazard (Stability & Reactivity)

| | |
|------------------------------------|---------|
| Corrosive and Irritant properties | Unknown |
| Acute toxicity | Unknown |
| Carcinogenic effects | Unknown |
| Mutagenic effects | Unknown |
| Effects on the reproductive system | Unknown |
| Teratogenic effects | Unknown |

SECTION 11 Toxicological Information (Including medical case regarding human and epidemiological information)

| | |
|-------------------------------------|---|
| Acute Toxicity (Orally) | *LD 50 1800mg/kg (Rat) Nonionic Surfactant *LD 50 6000 mg/kg (Rabbit) Methyl Parahydroxybenzoate *LD 50 5660 mg/kg (Rat) Polyhydric Alcohol |
| Irritative | Low (Rabbit, 20 percent solution) |
| No corrosiveness | Polyoxyethylene Alkyl Ether |
| Carcinogenicity, Mutagenicity, etc. | No data |

SECTION 12 Ecological Information

| | |
|------------------|---------|
| Biodegradability | Unknown |
| Bioaccumulation | Unknown |
| Fish toxicity | Unknown |

SECTION 13 Disposal Consideration

Disposal practice must be done in compliance with all federal, state / provincial and Local law and regulation.

Do not allow to carry it into and sewers, on the ground or into and body of water.

SECTION 14 Transport Information

While carrying, take care not to fall, drop and damage the package and container when loading.

SECTION 15 Regulatory Information

PRTR (Pollutant Release and Transfer Register Law):

Class I Designated Substances 407

Polyoxyethylene alkyl ether (C12-15)

Content (by percentage) 1.5%

The Fire Services Act: N/A

Industrial Safety and Health Law: N/A

SECTION 16 Other Information

The contents described herewith are drawn up by the materials, information, and data that could be procured at the present time. Hence, those information be revised by the future, new knowledge and/or information. Besides, warning instruction(s) is (are) subject to deal with under a normal use. In case the product would be treated in a peculiar, specific way/purpose, please bring an appropriate, proper safety-measurement. The above-mentioned is just an information, not the one to be guaranteed.