SAFETY DATA SHEET

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

Product Name : JOY BLUE LHF-71

Product Description : Blue liquid and slight odor
Use of the Substance/Preparation : For industrial use only
Supplier : Mikuni Color Ltd.

67 Kokubunnji, Mikunino-Cho, Himeji, Japan

Emergency Telephone No. : +(81)-792-52-0783

2. HAZARDOUS IDENTIFICATION

Classification of the mixture

Classification in accordance with EC No 1272/2008:

Skin Irrit.2: H315 Eye Irrit.2: H319

Special Notice

Contains 2,2',2"-nitrilotriethanol and 1,2-benzisothiazolin-3-one.

May produce an allergic reaction.

[GHS LABEL ELEMENTS]

Pictogram



Signal Word : Warning

Hazard Statement : H315: Causes skin irritation

: H319: Causes serious eye irritation

Precautionary Statement

[Prevention] : P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/

face protection.

[Emergency Response] : P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P332+P313: If skin irritation occurs: Get medical advice/ attention. P337+P313: If eye irritation persisits,: Get medical advice/ attentio

P362: Take off contaminated clothing and wash before reuse.

[Disposal] : Not applicable

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3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

Hazardous Component(s)

| <u>Hazardous Component(s)</u> | | | | | | |
|---------------------------------|-----------|-----------|--------|-------------|--------------------------------|--------------------------------------|
| Component(s) | CAS No. | EU No. | %(W/W) | Pictograms | Hazard Statement Code(s) | Hazard Class and Category Code(s) |
| Ethane-1,2-diol | 107-21-1 | 203-473-3 | 5-10 | (| H302 | Acute Tox.4 |
| Ammonia, aqueous solution (25%) | 1336-21-6 | 215-647-6 | 0.1-1 | | H314 | Skin Corr.1B |
| | | | | (| H400 | Aquatic Acute 1 |
| Propan-2-ol | 67-63-0 | 200-661-7 | 0.1-1 | | H225 | Flam.Liq.2 |
| | | | | (1) | H319 | Eye Irrit.2 |
| | | | | (!) | H336 | STOT SE 3 |
| 2,2',2''-nitrilotriethanol | 102-71-6 | 203-049-8 | 0.1-1 | (!) | H315 | Skin Irrit.2 |
| | | | | (| H319 | Eye Irrit.2 |
| | | | | () | H317 | Skin Sens. 1 |
| | | | | () | H335 | STOT SE 3 |
| 1,2-benzisothiazolin-3-one | 2634-33-5 | 220-120-9 | <0.05 | (| H302 | Acute Tox.4 |
| | | | | (!) | H315 | Skin Irrit.2 |
| | | | | () | H317 | Skin Sens. 1 |
| | | | | | H318 | Eye Dam.1 |
| | | | | 4 | H400 | Aquatic Acute 1 |
| Potassium hydroxide | 1310-58-3 | 215-181-3 | 0.1-1 | () | H302 | Acute Tox.4 |
| | | | | | H314 | Skin Corr.1A |
| Phthalocyanine blue | 147-14-8 | 205-685-1 | 5-10 | _ | _ | |

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4. FIRST AID MEASURES

Skin Contact

General information : Symptoms of poisoning may even occur after several hours;

therefore medical observation for at least 48 hours after the

accident.

Eye Contact : IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persisits,: Get medical advice/ attention.
: If skin irritation occurs: Get medical advice/ attention.

Inhalation : Remove to fresh air. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen.

Ingestion : If swallowed, wash out the mouth. Never give anything by mouth

to an unconscious person.

: Get medical attention immediately.

: Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Fire Fighting : Remove all sources of ignition and extinguish with the designated

extinguisher.

Extinguish Media : Water spray, foam, dry chemical powder, carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

In case of small quantity : Wipe with the meterials such as waste cloth.

In case of large quantity : Pick up to the container after leading to the safer place by using

sand, earth, other appropriate barriers.

: Prevent from spreading or entering drains, ditches or rivers.

7. HANDLING AND STORING

Handling: Avoid the damage to the container.

Storage : Must be stored in a well-ventilated area, away from sunlight, ignitio

sources and other sources of heat.

: Stir the product before use when stored for a long time.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits : ACGIH : 5mg/m3 (2,2',2"-nitrilotriethanol)

: ACGIH: 100mg/m3 (aerosol, upper) (Ethane-1,2-diol)

Equipment: Install the local exhaust ventilator and eyewash stations.

Personal Protection : Wear safety eyewear, protective gloves and protective mask.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Blue liquid
Flash Point : Not available

Explosion Limit : Lower: Not available Upper: Not available

Boiling Point : Approx. 100°C

Density : Not available

Solubility : Soluble in water

Volality : Not available

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Solids Content : Not available PH-Value at 25°C : Not available Viscosity at 25°C : Not available

10. STABILITY AND REACTIVITY

Flammability : None

Combustibility : Not applicable
Oxidizing Properties : Not applicable
Self-reactivity/explosibity : Not applicable
Dust Explosibility : Not applicable

Stability : Stable under normal condition of use.

Other Properties : Not available

11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Acute Toxicity (Oral): Classification not possibleAcute Toxicity (Skin): Classification not possibleAcute Toxicity (Inhalation): Classification not possibleSkin Irritation: Causes skin irritation

Eye Irritation: Causes serious eye irritationRespiratory sensitization: Classification not possibleSkin sensitization: Classification not possibleCarcinogenicity: Classification not possibleGerm cell mutagenicity: Classification not possibleReproductive toxicity:: Classification not possible

Specific target organ toxicity (STOT) - single exposure : Classification not possible Specific target organ toxicity (STOT) - repeated exposure : Classification not possible

Aspiration hazard : Classification not possible

12. ECOLOGICAL INFORMATION

Decomposition Nature : Not available
Accumulative Properties : Not available

Fish Toxicity : LC50 (96h, Oryzias latipes) : >100mg/L (as Ethane-1,2-diol)

13. DISPOSAL CONSIDERATIONS

Product : Do not dump this material into sewers, on the ground or into any

body of water. Comply with all relevant regulations.

Contact an accredited disposal contractor for the special advice.

14. TRANSPORT INFORMATION

Land Transport: ADR/RID

ADR/RID Class : Not applicable/Not regulated

Maritime Transport: IMDG

IMDG Class : Not applicable/Not regulated

Air Transport: ICAO-TI/IATA-DGR

ICAO-TI/IATA-DGR Class : Not applicable/Not regulated

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15. REGULATORY INFORMATION

Please refer to any other national measures that may be relevant.

German Water Hazard Class : WGK 1 (as Ethane-1,2-diol)

16. OTHER INFORMATION

Uses and Restrictions

: Use only in industrial manufacturing processes.

Disclaimer : The information in this document is based on our current

knowledge and is intended to describe the product for the purposes of health, safety, and environmental requirements only.

It should not therefore be construed as guaranteeing any specific

property of the product.