



LUKI VIETNAM CO., LTD

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FIXER

(LukiChem # 06202)-MSDS

1. PRODUCT IDENTIFICATION/SUPPLIER

- Description : LukiChem # 06202
- Supplier : **LUKI VIETNAM CO., LTD**
203/9 Dang Thuy Tram Str., Ward 13, Binh Thanh Dist.
HoChiMinh City, Vietnam
Tel: 84-8-3553 4001-2-3-4 Fax: 84-8-3553 4005-6

2. COMPOSITION/INFORMATION ON INGREDIENTS

A water based, slightly acidic photographic fixer concentrate solution containing ammonium thiosulphate as the principal ingredient.

3. HAZARDS IDENTIFICATION

Human Health Hazards

Not classified as hazardous.

Safety Hazards

Contact with acids liberates toxic gas, (sulphur dioxide and hydrogen sulphide).

Contact with alkalis, including many photographic developers, liberates irritant gas (ammonia).

Environmental Hazards

Will cause short term oxygen depletion if allowed to enter aquatic environment..

4. FIRST AID MEASURES

Eyes

Flush immediately with eye-wash solution or clean water.

Obtain medical attention.

Inhalation

Inhalation of the product is unlikely to occur. In the event of inhalation move to fresh air and obtain medical attention if symptoms occur. Asthmatics or persons with known respiratory problems should receive immediate medical attention.

Skin Contact:

Wash well with soap and water.

Ingestion:

Rinse mouth and drink plenty of water. Obtain medical attention.

IN ALL CASES OF DOUBT OR IF SYMPTOMS PERSIST, SEEK MEDICAL ADVICE. SHOW THE PRODUCT LABEL AND THIS SAFETY DATA SHEET TO THE DOCTOR

5. FIRE-FIGHTING MEASURES

Not classified as flammable (water based). If involved in a major fire, toxic gases, (ammonia and sulphur dioxide) could be produced.

Extinguishing Media:

Suitable for the surrounding fire.

Protective Equipment:

Self-contained respiratory equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection:

When dealing with spillages use the personal protection detailed in Section 8. In the event of a large spillage in an enclosed area ensure thorough ventilation while cleaning up, as acetic acid vapour may be produced.

Environmental Precautions:

Prevent large spillages from entering drain by absorption into inert absorbent material (eg. Dry sand) and transfer to a container for disposal by a licensed waste contractor in accordance with current local and national legislation.

Cleaning Up:

Clean floors and surfaces with water.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Do not eat, drink, or smoke when using. Ensure adequate ventilation, especially over mixing vessels and processing tanks. Re-cap containers after use.

Storage:

Store in a dry, well ventilated area at a ambient temperature of 13-18°C in the original container. Ensure containers are securely re-capped after use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:

Ensure good ventilation or local exhaustion of the working areas as acetic acid vapour may be produced.

UK. OEL for Acetic Acid:

TWA (8 hour): 25mg/M³

Respiratory Protection:

Not normally required.

Hand Protection :

Impervious gloves.

Eye Protection:

Wear safety glasses as the minimum level of protection. Provide eye-wash bottles in the immediate working area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless to very pale yellow liquid

Odour: Slightly acidic.

pH : 4.5-5.0

Relative Density: 1.32

Freezing Point: <0°C

Flammability: Not flammable

Solubility in water: Completely miscible – water based.

10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions. (See section 7).

Materials to avoid:

Incompatible with strong acids, alkalis, photographic developers and with oxidizing agents.

Hazardous Decomposition Products:

Sulphur Dioxide, Ammonia, Hydrogen Sulphide.

11. TOXICOLOGICAL

Eye Contact:

Irritation or severely irritant.

Skin Contact:

Prolonged contact may cause irritation .

Ingestion:

Not thought to be toxic-may cause gastro-intestinal irritation.

Inhalation:

May cause irritation. The presence of sulphite in the product may cause respiratory difficulties to asthmatics or persons with known respiratory problems.

12. ECOLOGICAL INFORMATION

The following summary indicates the expected behavior of the product in the environment based on the physical and chemical properties and known data for the principal components.

Mobility:

Very mobile in soils given average irrigation. Very mobile in aquatic environment.

Persistence:

Harmful short term effects due to oxygen demand are rapidly reduced by dilution, aerial oxidation and photodecomposition. The product has a very low potential to persist in a harmful form.

Bio-accumulation:

Does not bio-accumulate.

Aquatic Toxicity:

Causes localized damage to aquatic organisms due to oxygen depletion. After dilution and waste treatment, the product should have no adverse environmental effects.

13. DISPOSAL CONSIDERATIONS

Surplus Product and Working Strength Solution:

Disposal should be in accordance with current local and national legislation. When disposing of used working strength solution recover silver before disposal.

Plastic Containers:

Rinse with water. Dispose as solid waste to landfill or re-cycle where possible.

Cardboard Cartons:

Re-cycle where possible or treat as solid waste.

14. TRANSPORT INFORMATION

IMDG Classification:

Non-hazardous for carriage by sea.

ADR: RID Classification:

Non-hazardous for carriage by road/rail.

IATA Classification:

Non-hazardous for carriage by air.

15. REGULATORY INFORMATION

Hazard Symbol: None.

Risk Phrases: None.

Safety Phrases: None.

16. OTHER INFORMATION

The information contained in this Safety Data Sheet does not constitute the user's own assessment of workplace risk as required by other health and safety legislation. (eg. COSHH Regulations in the UK).

The information contained in this Safety Data Sheet is to our best present knowledge correct and complete and is given in good faith but without warranty.

