



LUKI VIETNAM CO., LTD

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DEVELOPER

(LukiChem # 06201)-MSDS

1. PRODUCT IDENTIFICATION/SUPPLIER

- Description : LukiChem # 06201
- 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 photographic developer containing the following components contributing to hazard:

	CAS NO	% w/w
Sodium Sulfite	7757-837	5-10
Hydroquinone	123-31-9	5-10
Potassium Hydroxide	1310-58-3	1-5
Sodium Bromide	7647-15-6	1-5

3. HAZARDS IDENTIFICATION

Human Health Hazards:

Irritating to eyes and mucous membrane; irritating to skin.

Safety Hazards

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

Contact with photographic fixer liberates irritant gas from the fixer (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 for at least 15 minutes holding the eyelids apart. 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. No vapour hazard exists under normal conditions of use.

Skin Contact:

Remove any contaminated clothing. Wash skin with cold water then thoroughly with a neutral, (non-alkaline) cleanser and water. Thoroughly wash contaminated clothing before re-use. Obtain medical attention if irritation develops.

Ingestion:

Rinse mouth with water and drink about two glasses of water. Do not induce vomiting. 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 (CO, SO₂) 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 of concentrate or working strength solution, use the personal protection specified in Section 8. Ensure spill area is well ventilated.

Environmental Precautions:

Prevent large spillages from entering drain by absorption into inert absorbent material (eg. Dry sand or earth) and transfer to a container for disposal by a licensed waste contractor. Wash small spillages to drain with copious amounts of water.

Cleaning Up:

After collecting the bulk of the spillage thoroughly wash area to drain with water.

7. HANDLING AND STORAGE**Handling:**

When handling product concentrates, avoid contact with eyes, skin and clothing. Use in a well ventilated area. Avoid contact with the working strength solution. After handling, the routine use of a neutral, (non-alkaline), hand cleanser will minimize the risk of adverse skin reaction.

Storage:

Store in a dry, well ventilated area at a moderate temperature. Store away from incompatible substances, (see Section 10).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Relevant Exposure Limits:**

None.

Engineering Measures:

Ensure good ventilation or local exhaust ventilation of the working area.

Hand Protection:

Wear impervious gloves when handling concentrates and to prevent contact with the working strength solution.

Eye Protection:

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale yellow liquid
Odour:	Slight
pH at 25°C:	10.89
Weight per ml at 25°C:	1.260
Freezing Point:	<0°C
Flammability:	Not flammable
Solubility in water:	Completely soluble

10. STABILITY AND REACTIVITY**Stability:**

Stable under recommended storage conditions.

Materials to avoid:

Avoid contact with strong acids and oxidizing agents.

Avoid contact of the concentrate and working strength solution with photographic fixer, (Ammonia will be liberated from the fixer)

Hazardous Decomposition Products:

None under normal conditions of use.

11. TOXICOLOGICAL**Eye Contact:**

Likely to cause severe irritation and possible corneal damage due to presence of caustic alkali and hydroquinone.

Skin Contact:

Prolonged or repeated contact may cause irritation and possible sensitization.

Ingestion:

Likely to cause severe irritation of the mouth and gastro-intestinal tract. Expected to be of moderate systematic toxicity.

Inhalation:

Inhalation of the liquid is likely to cause irritation and inflammation to mucous membrane. No vapour hazard under normal conditions of use.

12. ECOLOGICAL INFORMATION

The following summary of expected environmental effects is based on known data for the principal ingredients and on the physico-chemical properties of the preparation.

A moderate bio-chemical oxygen demand and high pH will result in short term oxygen depletion and increased alkalinity in the aquatic environment, with subsequent localised damage to plant and animal organisms. Harmful short term effects are rapidly reduced by dilution, oxidation and photodecomposition and the product has a very low potential to persist in a harmful form.

As a result of the above properties, precautions should be taken to avoid release of the product or working strength solution into the environment, (see Section 13).

13. DISPOSAL CONSIDERATIONS

Surplus Product and Working Strength Solution:

Disposal should be in accordance with current local and national legislation and only by a licensed waste contractor. Do not dispose of either concentrate or working strength solutions into drains, sewers or waterways or on to soil.

Plastic Containers:

Rinse thoroughly with water and dispose as solid waste to land fill or re-cycle where possible.

Cardboard Cartons:

Re-cycle where possible or treat as solid waste.

14. TRANSPORT INFORMATION

Not classified as hazardous for transport purposes.

15. REGULATORY INFORMATION

Contains Potassium Hydroxide and Hydroquinone.

Hazard Symbol: Xi Irritant

Risk Phrases: R36/38 Irritating to eyes and skin.

Safety Phrases: S26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

Advisory Safety Phrase: S2 Keep out of reach of children.

16. OTHER INFORMATION

The information contained in this Safety Data Sheet does not constitute the user own assessment of work place 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.

