



# Safety Data Sheet (LD1)

Revision Date : 6 April 2015

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## 1.Product and Company Identification

**Trade name:** LD1

**Product code:** Not Applicable

**Supplier Info:**

KMG Ultra Pure Chemicals Pte, Ltd.

14 Tuas Ave 20

Singapore 638826

**Tel:** +65 68651982

**Fax:** +65 68621985

**Recommended use:** Use according to manufacturers' directions

**Emergency contact**

**Mobile:** +65 97415009

**Mobile:** +65 98357459

## 2.Hazard Identification

**Hazard Classification**

**Classification of the substance or mixture :**

**Not Classified**

**GHS label elements :**

**Pictograms**



**Signal Word:** Warning!

**Hazard Statements:**

H315: Causes skin Irritation

**Precautionary Statements:**



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## Prevention:

P280 Wear protective gloves

## Response:

P302 + P352 If ON SKIN: Wash with plenty of water  
P332 + P313 If skin irritation occurs: Get medical advice/attention  
P362 + P364 Take off contaminated clothing and wash it before reuse

## 3. Composition/Information on ingredients

### Chemical Property

#### Description

Components	CAS No.	% Weight
Inorganic Salts	Non Hazardous	1--20%
Surfactant	Non Hazardous	1- 10%
Water	Non Hazardous	70-98%

## 4. First-Aid Measures

### The first aid measures for different routes of exposure:

<b>General information:</b>	Immediately remove contaminated clothing. Rinse skin with water/shower
<b>Inhalation:</b>	Wear respiratory protection, as necessary, and remove patient promptly to fresh air. Restore breathing, if required and, if breathing is difficult, give oxygen provided a qualified operator is available. Keep patient warm and at rest. Get medical attention.
<b>Skin contact:</b>	Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician, immediately. Wash clothing before reuse.
<b>Eye contact:</b>	If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapour exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.
<b>Ingestion:</b>	Do not induce vomiting. If conscious, Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Get medical attention.
<b>Protection for first aiders:</b>	Personal protective equipment.
<b>Indications to physicians:</b>	Pre existing disorders of the following organs (or organ systems) may be



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aggravated by exposure to this material : skin, lung (for example, asthma-like conditions).

## 5. Fire-fighting Measures

### FIRE AND EXPLOSION DATA

FLASH POINT: NO FLASH POINT

FLAMMABLE LIMITS: LOWER: NA, UPPER: NA

AUTOIGNITION TEMP.: NA

### EXTINGUISHING MEDIA:

Use any standard fire fighting agent (water spray or fog, dry chemical, foam, etc.) as appropriate to surrounding fire conditions.

### SPECIAL FIRE FIGHTING PROCEDURES:

Use self-contained, NIOSH-approved, breathing apparatus and full protective clothing, including eye and skin protection.

Use water to keep fire-exposed containers cool or move from fire area if without risk.

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Non combustible.

- Not considered to be a significant fire risk.
- Acids may react with metals to produce hydrogen, a highly flammable and explosive gas.
- Heating may cause expansion or decomposition leading to violent rupture of containers.

Decomposition may produce toxic fumes of: hydrogen chloride.

May emit poisonous fumes.

May emit corrosive fumes.

## 6. Accidental Release Measures

### SMALL SPILL:

Cover the contaminated surface with sodium bicarbonate or a soda ash/flaked lime mixture (50-50). Mix and add water if necessary to form a slurry. Scoop up slurry and wash site with soda ash solution. Proper mixing procedures are essential. Trained personnel should conduct this procedure. Untrained personnel should be removed from the spill area.

### LARGE SPILL:

Eliminate all ignition sources (flares, flames including pilot lights, electrical spark). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up is completed. Stop spill at source. Dike to prevent spreading. Pump to salvage tank.

## 7. Handling and Storage



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**Storage:**

Protect from physical damage. Do not store in tin, aluminium, or zinc containers. Sealed or closed the container tightly.

**Handling:**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the substance.

**Conditions for storage rooms and vessels:** Keep in a cool, well ventilated area

## 8. Exposure Controls and Personal Protection

**Engineering controls:** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Ensure that eyewash stations and safety showers are proximal to the work station location

**Biological standards:** Not Available

**Personal protective equipment (PPE):****Respiratory protection:**

Wear respiratory equipment with suitable filter or wear a self contained respiratory apparatus.

**Hand protection:** Protective gloves

**Eye protection:** Safety goggles

**Skin and body protection:** Chemical protective clothing Wear splash apron, work uniform and shoes to prevent skin contact.

**Hygiene measures:** Do not inhale vapor .Avoid contact with skin and eyes. Do not wear contaminated clothing.

## 9. Physical and Chemical Properties

**Form:** Liquid

**Color:** Colorless

**Odor:** Odorless

**Odor Threshold:** Not Available

**PH value:** 12.5 – 13.5g/ml @25C

**Melting point/Freezing Point:** Not available



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<b>Boiling Point/Boiling Range:</b>	<i>Not available</i>
<b>Flammability (Solid, gas):</b>	<i>Non-Flammable</i>
<b>Flashpoint:</b>	-
<b>Test method:</b>	-
<b>Open cup:</b>	-
<b>Close cup:</b>	-
<b>Decomposition temperature:</b>	-
<b>Percent Volatile:</b>	<i>Not available</i>
<b>Specific Vapor density:</b>	<i>Not available</i>
<b>Vapor pressure:</b>	<i>Not available</i>
<b>Specific Gravity @ 25°C:</b>	<i>1.05 -1.10</i>
<b>Solubility:</b>	<i>Soluble in water</i>

### 10. Stability and Reactivity

**Stability:**

Stable under ordinary conditions of use and storage.

**Special Remarks on Reactivity:**

Reacts with copper, aluminium, zinc and their alloys.

**Conditions to avoid:**

No information available

**Incompatible materials:**

Incompatible with strong acids, oxidising agents and halogenated compounds.

**Corrosivity**

Not Applicable

### 11. Toxicological Information

**Toxicity to Animals**

Not Available

**ROUTES OF ENTRY:**

Not Available.

**CHRONIC EFFECTS ON HUMANS:**

Not Available.

**OTHER TOXIC EFFECTS ON HUMANS:**

Not Available.

**SPECIAL REMARKS ON TOXICITY TO ANIMALS:**

Not Available.

**SPECIAL REMARKS ON CHRONIC EFFECTS ON HUMANS:**

Not available.

**SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS:**

Not Available.



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## 12. Ecological Information

**ENVIRONMENTAL FATE:**

Not available

**ENVIRONMENTAL TOXICITY:**

Not available.

**BOD5 AND COD:**

Not available.

**PRODUCTS OF BIODEGRADATION:**

Not available.

**TOXICITY OF THE PRODUCTS OF BIODEGRADATION:**

Not available

## 13. Disposal Considerations

**Methods of Waste Disposal:**

Waste material shall be disposed of in accordance with the local legislation. Leave chemicals in original containers. No mixing with other waste. Handle unclean containers like the product itself.

Consult Federal, State or Local authorities for proper disposal procedures.

## 14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: Not Regulated

Hazard Class: 8

UN / NA: 1814

Packing Group: II

International (Water, I.M.O.)

Proper Shipping Name: Not Regulated

Hazard Class: 8

UN / NA: 1814

Packing Group: II

International (Air, I.C.A.O.)

Proper Shipping Name: Not Regulated

Hazard Class: 8

UN / NA: 1814

Packing Group: II

## 15. Regulatory Information



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Follow in accordance with all local, state and federal regulation

## 16. Other Information

Abbreviations and acronyms:

- **GHS**: Globally Harmonized System of Classification and Labeling of Chemicals
- **OSHA** : The Occupational Health & Safety Assessment Series (Singapore)
- **NIOSH** : National Institute for Occupational Safety and Health (USA)
- **CAS**: Chemical Abstracts Service
- **UN**: United Nations

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Version : 1

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Designation : EHS Manager

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