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### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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**Product Name:**        **LH-DNWS**

**Product Code:**        **850196**

**Manufacturer:**        FUJIFILM HUNT CHEMICALS SINGAPORE PTE. LTD.  
Co. Reg. No. 198901418E  
15 Tuas Ave 7 Singapore 639270  
Tel: (65) 6862 2116 Fax: (65) 6861 4829

**Distributor:**

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### SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

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Ingredients (Mixture)

<u>Component</u>	<u>CAS No.</u>	<u>%by Weight</u>	<u>ACGIH TLV</u>
Potassium Silicate	1312-76-1	1 - 5	NE
Water	7732-18-5	80 - 100	NE

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### SECTION 3 - HAZARDS IDENTIFICATION

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**Hazard Symbols:**



**Hazard Designation:**        Xi - Irritant

**Risk Phrases:**

**R36/38**

Irritating to eyes and skin.

**Safety Phrases:**

**S: 24-26-36/37/39**

Avoid contact with skin.

In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

Wear suitable gloves and eye/face protection.

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### SECTION 4 - FIRST AID MEASURES

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**Eye Contact:**

In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.

**Skin Contact:**

After contact with skin, wash immediately with plenty of water.

**Ingestion:**

If swallowed, contact a doctor or Poisons Information Centre immediately and show MSDS or label.

**Inhalation:**

Immediately remove victim to fresh air. Call a physician.

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### SECTION 5- FIRE FIGHTING MEASURES

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**Extinguishing Media:**

Water spray, carbon dioxide, alcohol foam, dry chemicals.

**Unsuitable Extinguishing Media:**

None under normal conditions.

**Fire Fighting Instructions:**

Use water to keep fire-exposed containers cool and to dilute and flush spills from exposure.

Evacuate area and fight fire from a distance. Wear positive pressure demand breathing apparatus and protect eyes and skin. Use water to cool fire-exposed containers, to protect personnel and to disperse vapors and spills. Water runoff can damage the environment. Dike and collect water used to fight fire.

### SECTION 6- ACCIDENTAL RELEASE MEASURES

**Small Spills:** Spills should be contained by, and covered with suitable absorbent material and removed for disposal

**Large Spills:** Prevent from entering into soil, waterways and groundwater

### SECTION 7- HANDLING / STORAGE

**Handling:** Avoid contact with skin and eyes.  
Use only in well ventilated area.  
Wear suitable protective clothing, gloves and eye/face protection.

**Storage:** Keep out of reach of children.

### SECTION 8- EXPOSURE CONTROL AND PERSONAL PROTECTION

**Ventilation:** Good general ventilation should be sufficient for most conditions.

**Personal Protective Equipment:**

**Eye Protection:** Chemical safety goggles.

**Skin Protection:** Neoprene gloves and apron.

**Respiratory Protection:** Required on all inadequately ventilated work stations.

### SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear Liquid  
**Colour:** Colourless  
**Odour:** practically odourless

**Flammable Properties**

**Flash Point:** N/Ap  
Not flammable

**Autoignition Temperature:** N/Av  
not flammable

**Explosion Limits:** Lower: N/Ap vol.%  
Upper: N/Ap vol.%

**Change in Physical State** Boiling Point >100°C  
Melting Point N/Av

**Specific Gravity:** 1.031

**Vapour Pressure:** N/Av

**Viscosity:** N/Av  
like water

**Solubility in water** completely soluble

**pH-value:** 13.20

### SECTION 10 - STABILITY AND REACTIVITY

**Hazardous Polymerization:** Will not occur

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>

**Materials and Conditions to avoid:** Avoid contact with strong oxidizers and strong acids.

**Further Information:** Product is stable

### SECTION 11 - TOXICOLOGICAL INFORMATION

**Product Information:**

**AcuteOral** (The oral LD50): > 2000 mg/kg

Test Animal: Rat (Slc:Wister)

**AcuteDermal** (The dermal LD50): N/Av

Test Animal: -----

**Acute Overexposure:**

**Primary Skin Irritation Index** 1.5 May cause slight skin irritation

(Primary irritation index)

Test Animal: Rabbit (Japanese)

**Primary Eye Irritation Index** 25.7 May cause moderate irritation to the eyes

(Single ocular instillation)

Test Animal: Rabbit (Japanese)

**Further Information:** NE

**Chronic Overexposure:** NE

**Ingredients Information:**

<u>Component</u>	<u>CAS No.</u>	<u>Acute Oral LD 50 (mg/kg)</u>	<u>Test Animal</u>
Potassium Silicate	1312-76-1	>2000	Rats

### SECTION 12- ECOLOGICAL INFORMATION

Ecotoxicity Data: N/Av

Chemical Fate Data: N/Av

<u>Component</u>	<u>CAS No.</u>	<u>Fish Toxicity</u>	<u>Fish Organism</u>
Potassium Silicate	1312-76-1	EC 50: 4857 mg/l	Daphnia magna

### SECTION 13- DISPOSAL CONSIDERATION

#### Disposal Regulations in Singapore:

Dispose off in accordance to the Environmental Public Health (Toxic Industrial Waste) Regulations under the Environmental Pollution Control Act 1999

#### Disposal Regulations Overseas:

Dispose off in accordance with all applicable local or national regulations

### SECTION 14 - TRANSPORT INFORMATION

#### Marine Transportation

**Class:** Class 8, Corrosive

**UN-No.:** 3266

**IMDG-code page:** -----

**EMS:** -----

**MFAG:** 705

**Packing group:** III

**Sea Transport Statement** Do not allow any contact with light metals - danger of corrosion.

**Proper shipping Name:** UN 3266 Corrosive Liquid, Basic, Inorganic, N.O.S. (contains Potassium Silicate).



### Air Transportation

**Class:** Class 8, Corrosive

**UN-No.:** 3266

**Proper Shipping Name:** UN 3266 Corrosive Liquid, Basic, Inorganic, N.O.S.  
(contains Potassium Silicate).

**Subsidiary risk:** None

**Labels:** Corrosive

**Packing group:** III

**Passenger aircraft:** Packing Instruction 819                      Max.    5L

**Cargo aircraft only:** Packing Instruction 821                      Max.    60L

**Further Information:** Do not allow any contact with light metals - danger of corrosion




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## SECTION 15 - REGULATORY INFORMATION

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### Singapore Law

**Environmental Public Health Act (Chapter 95) Rev. Ed. 1988**

Part III : Disposal and Treatment of Industrial Wastes

**The Environmental Pollution Control Act, 1999**

Part V: Water Pollution Control

Part VII: Hazardous Substances Control

**Water Pollution Control and Drainage Act, (Chapter 348) Rev. Ed. 1983**

Part IV: Water Pollution Control

Part V: Sewerage

**Workplace Safety and Health Act (Chapter 354A) Rev. Ed. 2007**

Part V: General Duties of Persons at Workplaces

**Workplace Safety and Health (General Provisions) Regulations 2006**

Part IV: Special Provisions Relating to Health, Safety and Welfare

First Schedule: Permissible Exposure Limits of Toxic Substances

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## SECTION 16 - OTHER INFORMATION

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This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.