

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** CR-56P H5II-R 5L UN

**Product Code:** 850686 750686

**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:**

### SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients (Mixture)

<u>Component</u>	<u>CAS No.</u>	<u>%by Weight</u>	<u>ACGIH TLV</u>
Ethylenediamine Tetraacetic Acid Tetraammonium	60-00-4	0.1 - 1	NE
Ethylenediaminetetraacetate	22473-78-5	0.5 - 1.5	NE
Ammonium Nitrate	6484-52-2	1 - 5	NE
Ammonium Bromide	12124-97-9	10 - 20	NE
Ferric Ammonium	21265-50-9	15 - 30	NE
Ethylenediaminetetraacetate Water	7732-18-5	50 - 70	NE

### SECTION 3 - HAZARDS IDENTIFICATION

**Hazard Symbols:**



**Hazard Designation:**

Xi - Irritant

**Risk Phrases:**

**R:36/38**

Irritating to eyes and skin.

**Safety Phrases:**

**S: 24/25-26-36/37/39**

Avoid contact with skin and eyes.

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

Wear suitable protective clothing, 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:** liquid  
**Colour:** Dark red  
**Odour:** Slightly ammoniacal

**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:** 1.221

**Vapour Pressure:** N/Av

**Viscosity:** N/Av  
like water

**Solubility in water** completely soluble

**pH-value:** 5.30 (25 deg C)

### SECTION 10 - STABILITY AND REACTIVITY

**Hazardous Polymerization:** Will not occur

**Hazardous Decomposition Products:** .

**Materials and Conditions to avoid:** -

**Further Information:** None.

### 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** 3.92  
 (Primary irritation index)  
 Test Animal: Rabbit (Japanese)

**Primary Eye Irritation Index** 6.00  
 (Single ocular instillation)  
 Test Animal: Rabbit (Japanese)

**Further Information:** N/Av

**Chronic Overexposure:** N/Av

**Ingredients Information:**

<u>Component</u>	<u>CAS No.</u>	<u>Acute Oral LD 50 (mg/kg)</u>	<u>Test Animal</u>
Ethylenediamine Tetraacetic Acid	60-00-4	N/Av	-
Tetraammonium Ethylenediaminetetraacetate	22473-78-5	N/Av	-
Ammonium Nitrate	6484-52-2	2217	Rats
Ammonium Bromide	12124-97-9	3300	Rats
Ferric Ammonium Ethylenediaminetetraacetate	21265-50-9	N/Av	-

### 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>
Ethylenediamine Tetraacetic Acid	60-00-4	N/Av	-
Tetraammonium Ethylenediaminetetraacetate	22473-78-5	N/Av	-
Ammonium Nitrate	6484-52-2	LC50:100-1000 ppm	-
Ammonium Bromide	12124-97-9	LC50:4000 ppm	carp
Ferric Ammonium Ethylenediaminetetraacetate	21265-50-9	LC50:190mg/L	Fathead Minnow

### 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.:** 1760

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

**EMS:** 8-15

**MFAG:** -----

**Packing group:** III

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

**Proper shipping Name:** Corrosive Liquid, Dangerous Goods under 'LTD QTY' (contains EDTA Ferric Ammonium).



### Air Transportation

<b>Class:</b>	Class 8, Corrosive	
<b>UN-No.:</b>	1760	
<b>Proper Shipping Name:</b>	Corrosive Liquid, Dangerous Goods under 'LTD QTY' (contains EDTA Ferric Ammonium).	
<b>Subsidiary risk:</b>	-----	
<b>Labels:</b>	Corrosive	
<b>Packing group:</b>	III	
<b>Passenger aircraft:</b>	Packing Instruction 818	Max. 5L
<b>Cargo aircraft only:</b>	Packing Instruction 820	Max. 60L
<b>Further Information:</b>	Do not allow any contact with light metal ----- 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.