

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **CN 16Q NQ1R FLEX PART B**

Product Code: **850440 750441**

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>
1-hydroxyethane-1,1-diphosphonic acid	2809-21-4	1 - 5	NE
Diethylenetriamine Pentaacetic Acid	67-43-6	1 - 5	NE
Hydroxylamine Sulfate	10039-54-0	5 - 10	NE
Water	7732-18-5	80 - 100	NE

SECTION 3 - HAZARDS IDENTIFICATION

Hazard Symbols:



Hazard Designation:

Xi - Irritant

Contains 5 - 10% Hydroxylamine Sulfate.

Risk Phrases:

R:36/38

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 protective clothing, gloves and eye/ face protection.

SECTION 4 - FIRST AID MEASURES

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.

SECTION 5- FIRE FIGHTING MEASURES

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: colourless

Odour: 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: 1.0760

Vapour Pressure: N/Av

Viscosity: N/Av
like water

Solubility in water completely soluble

pH-value: 3.20 (25°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): > 5000 mg/kg
 Test Animal: Rat (Slc:Wister)

AcuteDermal (The dermal LD50): N/Av
 Test Animal: -----

Acute Overexposure:

Primary Skin Irritation Index -----
 (Primary irritation index)
 Test Animal: -----

Primary Eye Irritation Index -----
 (Single ocular instillation)
 Test Animal: -----

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>
1-hydroxyethane-1,1-diphosphonic acid	2809-21-4	NAv	-
Diethylenetriamine Pentaacetic Acid	67-43-6	NAv	-
Hydroxylamine Sulfate	10039-54-0	600	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>
1-hydroxyethane-1,1-diphosphonic acid	2809-21-4	NAv	-
Diethylenetriamine Pentaacetic Acid	67-43-6	NAv	-
Hydroxylamine Sulfate	10039-54-0	LC50:N/Av	-

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: not classified as dangerous material
UN-No.: -
IMDG-code page: -
EMS: -----
MFAG: -----
Packing group: -----
Sea Transport Statement Material not classified for transport at sea.
Proper shipping Name: not classified as dangerous material

Issue Date: 24 June 2004 MSDS Number: Pdt DB No. 6153AB (B)

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Air Transportation

Class: not classified as dangerous material
UN-No.: -
Proper Shipping Name: not classified as dangerous material

Subsidiary risk: -----
Labels: -
Packing group: -
Passenger aircraft: N/Av
Cargo aircraft only: N/Av
Further Information: Material not classified for air transport.

SECTION 15 - REGULATORY INFORMATION

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

SECTION 16 - OTHER INFORMATION

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.