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## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME: Cyclohexamine**

**CY200-00**

### SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

**MANUFACTURER:** Same as above  
**PREPARED BY:** Production Department  
**VERSION DATE:** 01-Aug-16  
**TELEPHONE NO.:** (519) 451-1614  
**EMERGENCY PHONE NO.:** (800) 424-9300  
**CHEMICAL FAMILY:** Not Available      **CHEMICAL FORMULA:** Not Applicable  
**MOLECULAR WEIGHT:** Not Applicable      **MATERIAL USE:** Please Refer to technical literature  
**SYNONYMS:**

### SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
Cyclohexylamine	>99.5%	108-91-8	N.Av.	N.Av.	N.Av.

### SECTION 03: HAZARD IDENTIFICATION

#### ROUTE OF ENTRY

**Eyes:** Corrosive. Vapor or contact will cause burns or irritation of the eyes.  
**Skin:** Corrosive. May cause burning of the skin.  
**Inhalation:** May cause irritation of the nose and throat. Coughing, sneezing, and burning of the throat may be experienced.  
**Ingestion:** Corrosive. Toxic. Swallowing can cause sore throat, abdominal pain, and vomiting. May cause burns to digestive system.

### SECTION 04: FIRSTAID

**Skin Contact:** Wash with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. GET MEDICAL ATTENTION.  
**Eye Contact:** Wash eyes with plenty of soap and water for atleast 15 minutes lifting upper and lower eyelids occasionally.GET MEDICAL ATTENTION IMMEDIATELY.  
**Inhalation, Acute:** Remove from contaminated area to fresh air and provide oxygen if breathing is difficult. CAUTION: Rescuer must not endanger himself! If breathing stops, administer artificial respiration and seek medical aid promptly.GET MEDICAL ATTENTION IMMEDIATELY.  
**Ingestion:** Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person. GET MEDICAL ATTENTION IMMEDIATELY.

**Notes to physician:** Treat symptomatically and supportively.

### SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES

**FLAMMABLE?** Yes  
**IF YES, UNDER WHICH CONDITIONS?**

**FLASH POINT (TCC) (C):** 27 o C  
**FLAMMABLE LIMITS:** **LEL(% BY VOL.):** Not Available **UEL(% BY VOL.):** Not Available  
**AUTO IGNITION TEMPERATURE (C)** 265 o C  
**EXTINGUISHING MEDIA** Water, dry extinguishing media, foam, carbon dioxide.  
**SPECIAL PROCEDURES:** In the event of fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.  
  
**HAZARDOUS COMBUSTION PRODUCTS:**  
**UNUSUAL FIRE AND EXPLOSION HAZARDS** Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.  
  
**SENSITIVITY TO STATIC DISCHARGE** Not Available  
**SENSITIVITY TO MECHANICAL IMPACT:** Not Available

#### SECTION 06: ACCIDENTAL RELEASE MEASURES

**Leak and Spill Procedure:** Evacuate area of all unnecessary personnel. Remove all sources of ignition. Ventilate area of leak or spill. Wear appropriate personal protective equipment. Use non-sparking tools and equipment. Absorb spilled material using inert material or absorbent pads. Pick up spill for recovery or disposal and place in a closed container,

#### SECTION 07: HANDLING AND STORAGE

##### Handling Procedures and Storage Requirements

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Do not reuse container. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product. Avoid all types of ignition sources. Employ grounding, venting and explosion relief provisions in accord with accepted engineering practices in any process capable of generating static electricity. Handle in accordance with good industrial hygiene and safety practices. Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Avoid breathing vapors, mists, or dust. Do not eat, drink or smoke in work area. Wash thoroughly after handling.

#### SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS

**GLOVES/TYPE:** Butyl or "Viton" gloves recommended  
**RESPIRATOR/TYPE:** A NIOSH/MSHA respirator with organic vapor cartridge.  
**EYE/TYPE:** Safety glasses.  
**OTHER/TYPE:** Not Available  
**ENGINEERING CONTROL** Not Available

#### SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL STATE/APPEARANCE:</b>	Liquid		
<b>ODOUR:</b>	amine-like	<b>ODOUR THRESHOLD:</b>	N.Av
<b>VAPOUR PRESSURE (mm Hg @ 20C):</b>	14 mbar 20C	<b>VAPOUR DENSITY (Air=1):</b>	N.Av
<b>EVAPORATION RATE (Ether = 1):</b>	N.Av	<b>SPECIFIC GRAVITY:</b>	N.Av
<b>BOILING POINT (C):</b>	133-134 o C	<b>FREEZING POINT (C)</b>	-18 o C
<b>Ph (% SOLUTION):</b>	11.5		
<b>SOLUBILITY IN WATER (% W/W)</b>	1000 g/l	<b>% VOLATILE (WT):</b>	N.Av

#### SECTION 10: STABILITY AND REACTIVITY

**CHEMICALLY STABLE?** No  
**IF NO, UNDER WHICH CONDITIONS?** Stable under ordinary conditions of use.  
**INCOMPATIBILITY WITH OTHER SUBSTANCES** Yes  
**IF YES, WITH WHICH ONES:** Acids  
**SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS** Exothermic reaction  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Avoid all sources of ignition: heat, sparks, open flame. Avoid electro-static charge.

#### SECTION 11: TOXICOLOGICAL INFORMATION

**EXPOSURE LIMIT OF MATERIAL**

**LC 50 OF MATERIAL, SPECIES AND ROUTE** Rat

**LD 50 OF MATERIAL, SPECIES AND ROUTE**

**CARCINOGENICITY OF MATERIAL**

**REPRODUCTIVE EFFECTS:**

**IRRITANCY OF MATERIAL**

**SENSITIZING CAPABILITY OF MATERIAL**

**SYNERGISTIC MATERIALS**

**SECTION 12: ECOLOGICAL INFORMATION**

**AQUATIC TOXICITY**

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** Recover, reclaim or recycle when practical. Dispose of material in accordance with federal, state and local requirements.

**SECTION 14: TRANSPORT INFORMATION**

**TDG CLASSIFICATION** Class 8, Cyclohexamine

**UN NUMBER:** 2357

**PACKING GROUP:** II

**Special Provisions for Transport**

**SECTION 15: REGULATORY INFORMATION**

**WHMIS CLASSIFICATION** Class E, Class B Division 2

**SECTION 16: OTHER INFORMATION**

**ABBREVIATIONS USED:** N.Av. = Not Available  
N.App. / N.Ap. = Not Applicable

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**SOURCES:** Supplier MSDS

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