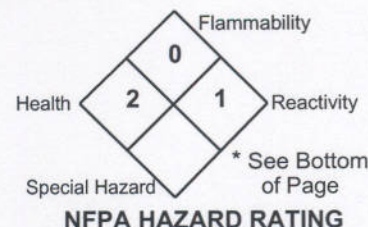


# MATERIAL SAFETY DATA SHEET

Distributed by:  
**HILLYARD, INC.**

302 N. Fourth St.  
St. Joseph, Missouri 64502



Product Name: **Steamline 190**

EMERGENCY PHONE #: 1-800-424-9300 (CHEMTREC)

## I. IDENTIFICATION

### Chemical Name And Synonyms:

Not Applicable - Mixture.

### Chemical Family:

Amine.

### DOT Shipping Name

Corrosive liquid, basic, organic, N.O.S.  
(Cyclohexylamine, Diethylene Oximide)

### DOT Hazard Class & I.D. Number

Corrosive Material UN3263

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III

## II. HAZARDOUS INGREDIENTS

Component	CAS NO.	%	TLV	PEL	Toxic	Hazard
Cyclohexylamine	108-91-8	<7	10 ppm	Not Est.	NA	Irritant to skin and eyes, absorbed by skin.
Diethylaminoethanol	100-37-8	<10	10 ppm	Not Est.	NA	Irritant to skin and eyes, absorbed by skin.

\*\*Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR §372).

NA: Not applicable

## III. PHYSICAL DATA

Boiling Point: About 212° F.

Specific Gravity: 0.990

Appearance: Clear, slight yellow.

Form: Liquid.

pH, Neat: 12.3

Solubility In Water: Complete.

Odor: Amine (slightly ammoniacal).

## IV. FIRE AND EXPLOSION HAZARD DATA

Flashpoint: Not Applicable

Extinguishing Media: Alcohol foam, water spray, water fog, carbon dioxide (CO<sub>2</sub>), dry chemical.

### Special Fire

Fighting Procedures: Although this product is not combustible, if a fire occurs in the near vicinity, good fire-fighting practice dictates the use of self-contained breathing apparatus and other protective gear.

### Unusual Fire And

Explosion Hazards: If the stock solution container breaks, the solution should be handled with care as it is corrosive. Cool fire exposed containers with water.

## V. HEALTH HAZARD DATA

Carcinogenic: The raw materials used in this product are *not* considered to be a carcinogen by ACGIH and OSHA.

Effects Of Over-exposure: May cause skin and eye burns. Breathing vapors and absorption through the skin may cause systemic illness such as nausea, vomiting, and/or headache.

### Emergency And First

Aid Procedures: **Eyes:** Immediately flush with water for 15 minutes, raising eyelids for complete rinsing. *Get immediate medical attention.*

**Skin:** Wash thoroughly with soap and water. *Get medical attention* if irritation persists. Wash all contaminated clothing before reuse. Destroy contaminated shoes.

**Inhalation:** Remove victim to fresh air, apply artificial respiration if necessary; *obtain medical assistance.*

**Ingestion:** Rinse mouth with water. Give large quantities of water to dilute. Do NOT induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person.

\* NFPA Degree or Hazard: 4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant.

*Continued On Back*

A. Safety Glasses B. Safety Glasses, Gloves C. Safety Glasses, Gloves, Apron D. Face Shield, Gloves, Apron E. Safety Glasses, Gloves, Dust Respirator  
F. Safety Glasses, Gloves, Apron, Dust Respirator G. Safety Glasses, Gloves, Vapor Respirator H. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and  
Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor and Dust Respirator K. Air Line, Hood or Mask, Gloves, Full Suit, Boots X. Ask your supervisor for guidance.



## VI. REACTIVITY DATA

Stability - Unstable: ☐

Stable: ☒

Conditions To Avoid: Not applicable.

**Incompatibility:** Strong oxidizers, strong acids. Mixing with nitrites will form nitrosamines--considered to be cancer causing agents.  
(Materials To Avoid)

### Hazardous

**Decomposition Products:** Thermal decomposition may produce nitrogen oxides, carbon monoxide, and/or dioxide, ammonia vapors.  
Mixture with nitrites will form nitrosamines which are dangerous cancer causing agents.

## VII. SPILL OR LEAK PROCEDURES

### Steps To Be Taken In Case Material Is Released Or Spilled:

Eliminate all ignition sources. Wear respiratory protection and body protection. Contain spill, ventilate area, avoid breathing vapor. Avoid personal contact. Remove with inert absorbent material. Use non-sparking tools.

**Waste Disposal Method:** Dispose in approved chemical disposal area or in a manner which complies with all local, state and federal regulations.

## VIII. SPECIAL PROTECTION INFORMATION

**Respiratory Protection:** Not required for normal use. If mist level is high, wear NIOSH approved respirator.

**Ventilation:** Adequate mechanical.

**Protective Gloves:** Synthetic rubber or other non-permeable gloves.

**Eye Protection:** Safety goggles, face shield.

**Protective Clothing:** Face mask, eye bath, safety shower, protective apron.

## IX. SPECIAL PRECAUTIONS

### Precautions To Be Taken In Handling And Storing:

Keep away from heat, sparks, flames, avoid any contact with skin and eyes. Wash thoroughly after handling.  
cover closed when not in use.

Keep

**Other Precautions:** Absorption through skin may be harmful.

## X. REVISED INFORMATION

**MSDS Status:** V. HEALTH HAZARD DATE (updated ingestion)

**Revised:** 9/27/2000 Imt

**Supersedes:** 12/9/1998

The opinions expressed herein are those of qualified experts within ANDERSON Chemical Company. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of the product are not within the control of ANDERSON Chemical Company, it is the user's obligation to determine the conditions of safe use of the product.