

MATERIAL SAFETY DATA SHEET

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Product.....> **BCT-232**

Section 1: Material Identification

Chemical Family..... alkyl alkanol amine mixture in water
DOT Shipping name..... Compound, Boiler Preserving
Hazard Class..... Combustible liquid, NA1993
EMERGENCY response.... (517) 546-7800
Date Prepared..... July 1, 1992

Section 2: Ingredient and Hazards

Hazardous Classification: combustible, corrosive, toxic

<u>Ingredients</u>	<u>Percent</u>	<u>Limits(TLV)</u>
diethylaminoethanol (CAS 100-37-8)	< 9	10 ppm (skin)
cyclohexylamine (CAS 108-91-8)	< 8	10 ppm (skin)

Section: 3 Physical Data

Boiling Point..... 212 deg F
Specific Gravity..... 0.9774
Vapor Pressure..... 150 mm Hg 100 F
Evaporation Rate..... <1 (BUTYL ACETATE=1)
Vapor Density..... 3.4 - 4.0 (AIR=1)
Measured pH (neat).... 11.5 - 12.0
Water Solubility..... complete
Appearance..... clear peach color liquid
Odor..... distinct amine (fish like) scent

Abbreviation: n/a = not applicable



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Section: 4 Fire and Explosion Data

Flash Point, F, TCC.....	124
Flammable Limits.....	LEL: 6% UEL: 12%
Auto Ignition Temp....	not determined
Extinguishing Media...	alcohol foam, CO ₂ , dry (water fog may not be effective).
Special Procedures....	do not direct water stream into burning liquid. Use SCBA with full face shield.
Unusual Fire Hazards..	drums heated by fire can rupture. Heavier than air vapors can travel & ignite at remote areas.

Section 5: Health Hazard Data

Threshold Limit Value..	10 ppm (skin)
Carcinogen.....	none
* ROUTES OF EXPOSURE *	
Eye Contact.....	DERMAL highly corrosive, possible permanent damage unless promptly water flushed.
Skin Contact.....	irritation & corrosive burns possible if the area is not promptly rinsed with water. Chemical will absorb into skin tissue.
Inhalation.....	corrosive to nose, throat & lung tissue.
Oral.....	gastrointestinal irritation, corrosive with toxic component, cyclohexylamine LD ₅₀ 320 mg/kg Rabbit.

* EMERGENCY FIRST AID *

Eyes.....	immediately flush with water 15 minutes, get medical attention.
Skin.....	wash with soap & flush with water 15 minutes. Remove contaminated clothing.
Inhalation.....	move to fresh air.
Ingestion.....	DO NOT induce vomiting. give 2-3 glasses of milk or water. Get emergency medical care as soon as possible. Avoid stomach evacuation techniques that would aspirate chemical into the lungs.

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Section 6: Reactivity Data

Stability..... stable
Incompatability..... strong oxidizing agents, acids, aluminum.
Decomposition Products. ammonia, NOx, COx upon combustion.
Hazardous Polymerization will not occur

Section: 7 Environmental Protection Procedures

Spill..... Cover liquid with absorbent material and shovel into closable containers. Do not flush away to sewers or any natural waterways.

Waste Disposal..... contaminated waste maybe considered hazardous due to corrosivity or flammability. Dispose of by incineration or hazardous waste facility. Follow proper federal, state or local regulations where applicable.

Section: 8 Control Measures/Special Protection

Respiratory Protection.. use with adequate ventilation.
Ventilation Recommended. provide local exhaust.
Protective Gloves..... chemical or solvent resistant material.
Eye Protection..... chemical goggles or face shield.
Other Equipment..... safety/eye wash nearby.
Work/Hygienic Practices: wash thoroughly after handling.

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Section: 9 ADDITIONAL INFORMATION

HMIS Rating Code: HMIS

Health.....	3	0 = minimal
Flammability.....	2	1 = slight
Reactivity.....	0	2 = moderate
Personal Protection... D		3 = serious
		4 = severe
		D = full face shield or splash proof goggles, chemical resistant gloves, & a rubber apron.

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