

VAN WATERS AND ROGERS INC., UNIVAR CORP. -- CYCLOHEXYLAMINE -- 6810-00-805-9798

===== Product Identification =====

Product ID:CYCLOHEXYLAMINE

MSDS Date:02/22/1995

FSC:6810

NIIN:00-805-9798

MSDS Number: BHXTJ

=== Responsible Party ===

Company Name:VAN WATERS AND ROGERS INC., UNIVAR CORP.

Address:INVALID INFO. PER COMPANY USE 0STM5

Box:5932

City:SEATTLE

State:WA

ZIP:98104-1564

Country:US

Info Phone

Num:206-447-5911

Emergency Phone Num:206-447-5911

CAGE:87664

=== Contractor Identification ===

Company Name:CHEMICAL COMMODITIES AGENCY, INC.

Address:27447 PACIFIC STREET

Box:City:HIGHLAND

State:CA

ZIP:92346-2640

Country:US

Phone:909-864-2310

CAGE:60777

Company Name:VAN WATERS AND ROGERS INC., UNIVAR CORP.

Address:1600 NORTON BLDG. 801 2ND AVENUE

Box:City:SEATTLE

State:WA

ZIP:98104-1564

Country:US

Phone:206-447-5911/800-424-9300(CHEMTREC)

CAGE:87664

Company Name:VOPAK USA INC

Address:6100 CARILL

ON POINT
Box:City:KIRKLAND
State:WA
ZIP:98033-7357
Country:US
Phone:425-889-3400/425-889-3617
CAGE:0STM5

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Composition/Information on Ingredients
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Ingred Name:CYCLOHEXYLAMINE (SARA 302)
CAS:108-91-8
RTECS #:GX0700000
Fraction by Wt: 99%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:10 PPM
ACGIH TLV:10 PPM; 9596

Ingred Name:CYCLOHEXANOL
CAS:108-93-0
RTECS #:GV7875000
Fraction by Wt: 0.1%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:S, 50 PPM
ACGIH TLV:S, 50 PPM; 9596

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Hazards Identification
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LD50 LC50 Mixture:LD50 ORAL RAT = 11 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:CORROSIVE TO EYES AND SKIN. MAY CAUSE
PERMANENT EYE DAMAGE AND BLINDNESS. MAY CAUSE SKIN SENSITIZATION.
AFFECTS THE CENTRAL NERVOUS SYSTEM. SWALLOWING LARGE QUANTITIES CAN
CAUSE DEATH. CHRONIC EFFECTS :DESTRUCTION OF SKIN TISSUES OR

PRIMARY IRRITANT DERMATITIS. INHALATION MAY CAUSE DAMAGE TO AFFECTED
TISSUES.

Effects of Overexposure:EYES:SEVERELY IRRITATING. SKIN:SEVERE
IRRITATION AND BURNS. INHALATION:IRRITATION TO RESPIRATORY TRACT,
LIGHT-HEADEDNESS, DROWSINESS, ANXIETY, NAUSEA, AND VOMITING.
INGESTION:BURNS, SEVERE ABDOMINAL PAIN, NAUSEA, VOMITING,
COLLAPSE, DEATH.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH A HISTORY OF SKIN
OR RESPIRATORY ILLNESSES MAY BE MORE ADVERSELY AFFECTED.

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===== First Aid Measures =====

First Aid:EYES: FLUSH WITH PLENTY OF WATER FOR 15 MINUTES.SEE DOCTOR.
SKIN:REMOVE CONTAMINATED CLOTHING AND SHOES. WASH WITH SOAP AND WATER.SEE DOCTOR. INHALATION: REMOVE VICTIM TO FRESH AIR.GIVE OXYGEN/CPR IF NEEDED.SEE DOCTOR. INGESTION:GIVE LARGEAMOUNTS OF WATER OR MILK.DO NOT INDUCE VOMIT.NOTHING BY MOUTH IF UNCONSCIOUS.SEE DOCTOR.

===== Fire Fighting Measures =====

Flash
Point Method:CC
Flash Point:83.0F,28.3C
Lower Limits:0.66
Upper Limits:8.2
Extinguishing Media:USE CARBON DIOXIDE, FOAM, OR DRY CHEMICAL. DO NOT USE WATER TO FIGHT FIRE.
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire/Explosion Hazard:AVOID WATER BECAUSE PRODUCT WILL FLOAT ON WATER AND MAY REIGNITE. VAPORS HEAVIER THAN AIR.MAY TRAVEL A LONG DISTANCE ALONG GROUND AND FLASHBACK.

===== Accidental Release Measures =====

Spill Release Procedures:ELIMINATE IGNITION SOURCES. VENTILATE AREA.WEAR EYE PROTECTION,RESPIRATOR OR SCBA,FULL PROTECTIVE CLOTHING.USE NON-SPARKING TOOLS.STOP LEAK.ABSORB IN INERT ABSORBENT AND PLACE INTO APPROPRIATE DISPOSAL CONTAINER AND SEAL.

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN COOL,DRY ,WELL VENTILATED PLACE,AWAY FROM HEAT,IGNITION SOURCES AND INCOMPATIBLE MATERIALS.KEEP CONTAINERS CLOSED WHEN NOT IN USE.
Other Precautions:VENT CONTAINERS FREQUENTLY,AND MORE OFTEN IN WARM WEATHER,TO RELIEVE PRESSURE.ELECTRICALLY GROUND ALL EQUIPMENT.DO NOT USE PRESSURE TO EMPTY CONTAINER.DO NOT CUT,WELD,GRIND,DRILL NEAR CONTAINER.DO NOT GET IN EYES, SKIN OR ON CLOTHING.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NIOSH/MSHA

RESPIRATOR WITH ORGANIC VAPORS

CARTRIDGE APPROPRIATE FOR EXPOSURE OF CONCERN OR SCBA IF TLV IS EXCEEDED.

Ventilation:SUFFICIENT MECHANICAL (GENERAL) AND/OR LOCAL EXHAUST VENTILATION TO MAINTAIN EXPOSURE BELOW TLV.

Protective Gloves:RUBBER

Eye Protection:CHEMICAL GOGGLES AND FULL FACESHIELD.

Other Protective Equipment:FULL WORK CLOTHING,RUBBER APRON & BOOTS TO PREVENT REPEATED OR PROLONGED SKIN CONTACT.EYE WASH STATION AND SAFETY SHOWER

Work Hygienic Practices:AVOID CONTACT WITH EYES & SKIN.DO NOT BREATHE

VAPORS.WASH THOROUGHLY AFTER HANDLING.LAUNDER CONTAMINATED CLOTHING.

Supplemental Safety and Health
NONE NOTED.

===== Physical/Chemical Properties =====

HCC:F7

Boiling Pt:B.P. Text:135F,57C

Melt/Freeze Pt:M.P/F.P Text:0F,-18C

Vapor Pres:11

Vapor Density:3.42

Spec Gravity:0.867

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS LIQUID, STRONG FISHY ODOR.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

OXIDIZING AGENTS, ACIDS, ALL COPPER ALLOYS, LEAD.

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, NITROGEN OXIDES.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. EMPTY CONTAINERS CAN HAVE RESIDUES,AND ARE SUBJECT TO

T TO PROPER WASTE DISPOSAL.

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