

ALDRICH CHEMICAL CO INC./SUB OF SIGMA-ALDRICH CORP -- EPSILON-CAPROLACTAM,99 +  
%,24059-1 -- 6810-01-446-5539

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Product Identification  
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Product ID:EPSILON-CAPROLACTAM,99 + %,24059-1

MSDS Date:10/12/1995

FSC:6810

NIIN:01-446-5539

MSDS Number: CFRLP

=== Responsible Party ===

Company Name:ALDRICH CHEMICAL CO INC./SUB OF SIGMA-ALDRICH CORP

Address:1001 W. ST. PAUL AVE

Box:355

City:MILWAUKEE

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State:WI

ZIP:53201

Country:US

Info Phone Num:414-273-3850/FAX -4979

Emergency Phone Num:414-273-3850

CAGE:60928

=== Contractor Identification ===

Company Name:ALDRICH CHEMICAL CO INC

Address:1001 WEST ST PAUL AVE

Box:355

City:MILWAUKEE

State:WI

ZIP:53233

Country:US

Phone:414-273-3850

CAGE:60928

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Composition/Information on Ingredients  
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Ingred Name:CAPROLACTAM (CERCLA)

CAS:105-60-2

RTECS #:CM3675000

Fraction by Wt: >99%

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:1MG/M

3 DUST/5 VAP;95  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

===== Hazards Identification =====

LD50 LC50 Mixture:LD50 (ORAL, RAT) 1210 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, NERVES,  
RESPIRATORY & GI TRACTS. ACUTE- MAY BE HARMFUL IF SWALLOWED OR  
ABSORBED THROUGH SKIN. MAY BE FATAL IF INHALED. CAUSES EYES & SKIN  
IRRITATION. HIGH  
LY TOXIC. INHALATION OF DUST MAY CAUSE UPPER  
RESPIRATORY TRACT IRRITATION. EXPOSURE CAN CAUSE NAUSEA, VOMITING,  
HEADACHE. CHRONIC- DERMATITIS  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:IRRITATION, COUGHING, HEADACHE, NAUSEA,  
VOMITING, ALLERGIC SKIN REACTION, DERMATITIS, SEIZURES  
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN  
DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE  
MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:MOVE TO FRESH  
AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES/SKIN:IMMEDIATELY FLUSH WITH  
WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. ORAL:IF CONSCIOUS, WASH  
OUT MOUTH WITH WATER. GET MEDICAL ATTENTION.

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

Flash Point:NONE  
Lower Limits:1.4%  
Upper Limits:8%  
Extinguishing Media:WATER SPRAY, CARBON DIOXIDE,  
FOAM OR DRY CHEMICAL.  
USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.  
Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED  
SELF-CONTAINED BREATHING APPARATUS. TOXIC FUMES MAY BE PRESENT.  
Unusual Fire/Explosion Hazard:AS WITH ANY FINELY DIVIDED ORGANIC SOLID,  
DUST MAY BE EXPLOSIVE IF MIXED WITH AIR IN CRITICAL PROPORTIONS AND  
IN THE PRESENCE OF AN IGNITION SOURCE.

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

Spill Release Procedures:WEAR

SELF-CONTAINED BREATHING APPARATUS,  
RUBBER BOOTS AND HEAVY RUBBER GLOVES. SWEEP UP SPILL. AVOID  
CREATING DUST. PLACE IN A BAG. HOLD FOR DISPOSAL. VENTILATE AREA  
AND WASH SPILL SITE AFTER PICKUP IS COMPLETE.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE AWAY FROM  
INCOMPATIBLES. KEEP CONTAINER TIGHTLY CLOSED.

Other Precautions:HIGHLY TOXIC AND HYGROSCOPIC. DO NOT RAISE  
DUST.

AVOID CONTACT WITH EYES, SKIN OR CLOTHING. AVOID INHALATION OF  
DUST. WASH THOROUGHLY AFTER HANDLING MATERIAL. KEEP OUT OF REACH OF  
CHILDREN. DO NOT INGEST. USE ONLY IN A CHEMICAL FUME HOOD.

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

Respiratory Protection:WEAR A NIOSH-APPROVED DUST RESPIRATOR OR DUST  
MASK. IN EMERGENCY WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING  
APPARATUS.

Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP FUME  
OR

DUST LEVELS AS LOW AS POSSIBLE.

Protective Gloves:RUBBER

Eye Protection:SAFETY GLASSES WITH SIDE SHIELD/GOGGLES

Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, PROTECTIVE  
CLOTHING AND/OR UNIFORM

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES. WASH BEFORE EATING OR DRINKING.

Supplemental Safety and Health

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

HCC:T3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B

.P. Text:277F - 280F

Melt/Freeze Pt:M.P/F.P Text:158F,70C

Vapor Pres: