

EMERSON CUMING INC. SUB OF W R GRACE AND CO. -- CATALYST 9,ECCOBOND 56 C 9-11
CTLST,PART B -- 8040-01-058-9504

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Product Identification
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Product ID:CATALYST 9,ECCOBOND 56 C 9-11 CTLST,PART B

MSDS Date:07/10/1990

FSC:8040

NIIN:01-058-9504

Kit Part:Y

MSDS Number: BXFRY

=== Responsible Party ===

Company Name:EMERSON CUMING INC. SUB OF W R GRACE AND CO.

Address:77 DRAGON COURT

City:WOBURN

St

ate:MA

ZIP:01855

Country:US

Info Phone Num:617-828-3300

Emergency Phone Num:617-935-4850/617-938-2630

Preparer's Name:DAVID HAAS

CAGE:0B562

=== Contractor Identification ===

Company Name:EMERSON & CUMING

Address:55 HAYDEN AVE

Box:City:LEXINGTON

State:MA

ZIP:02173

Country:US

Phone:617-861-6600

CAGE:0B562

Company Name:GRACE W R & CO EMERSON & CUMING DEWEY & ALMY CHEM

Address:869 WASHINGTON ST

City:CANTON

State:MA

ZIP:02021-2513

Country:US

Phone:617-935-4850

CAGE:04552

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Composition/I

Information on Ingredients =====

Ingred Name:TETRAETHYLENEPENTAMINE
CAS:112-57-2
RTECS #:KH8585000
Fraction by Wt: 60 - 70%
Other REC Limits:NONE RECOMMENDED

Ingred Name:TRIETHYLENE TETRAMINE
CAS:112-24-3
RTECS #:YE6650000
Fraction by Wt: 20 - 30%
Other REC Limits:NONE RECOMMENDED

Ingred Name:PENTAETHYLENE HEXAMINE
CAS:4067-16-7
RTECS #:RZ2680000
Fraction by Wt: 10%
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixtu

re:LD50 (ORAL, RAT) IS NOT KNOWN.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, RESPIRATORY &
GI TRACTS. ACUTE- CORROSIVE TO EYES, SKIN, MOUTH & UPPER GI TRACT.
MAY CAUSE ALLERGIC SKIN REACTION. VAPORS MAY CAUSE RESPIRATORY
SENSITIZATION IN SUSCEPTIBLE INDIVIDUALS. HARMFUL IF
SWALLOWED/ABSORBED THROUGH SKIN. CHRONIC- HAVE CAUSED LIVER & KIDNEY
INJURY ON LA

LABORATORY ANIMALS.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION, SENSITIZATION, HEADACHE, BLURRED
VISION, PAIN, BURNS, ASTHMA-LIKE SYMPTOMS, TIGHTNESS IN CHEST,
ALLERGIC SKIN REACTION, TEARING

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING
DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT, LIVER, KIDNEYS MAY
HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE
EXPOSURES.

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

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First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. SKIN:REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP & WATER. EYE:FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. CONSULT PHYSICIAN. INHALED:REMOVE TO FRESH AIR. ORAL:GET MEDICAL ATTENTION. DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK WATER TO DILUTE.

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

Flash Point:280F,138C

Extinguishing Media:WATER FOG, CARBON DIOXIDE, SAND, FOAM/DRY CHEMICAL.

WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN THE POSITIVE PRESSURE MODE. TOXIC FUMES MAY BE PRESENT.

Unusual Fire/Explosion Hazard:CLOSED CONTAINER MAY BURST.

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

Spill Release Procedures:VENTILATE AREA. AVOID PERSONAL CONTACT. WIPE UP OR ABSORB SPILLED MATERIAL WITH VERMICULITE AND PLACE IN A

SUITABLE, LABELED CONTAINER FOR WASTE DISPOSAL. WASH AREA WITH SOAPY WATER TO REMOVE RESIDUE. DO NOT FLUSH TO SEWER.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL, DRY, VENTILATED PLACE AWAY FROM OPEN FLAMES, HEAT SOURCES, INCOMPATIBLE MATERIALS. KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER CLOSED

Other Precautions:AVOID BREATHING VAPORS. DO NOT GET IN EYES, ON SKIN

OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. REMOVE CONTAMINATED CLOTHING PROMPTLY. LAUNDRY BEFORE REUSE.

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

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS TO AN ACCEPTABLE LEVEL, A NIOSH-APPROVED RESPIRATOR FOR CORROSIVE AMINES MUST BE WORN. A PROGRAM SHOULD BE INSTITUTED TO ASSURE COMPLIANCE WITH OSHA STANDARD 29 CFR 1910

.134.

Ventilation:ADEQUATE

Protective Gloves:LATEX OR VINYL

Eye Protection:SAFETY GLASSES OR GOGGLES

Other Protective Equipment:SAFETY SHOWER AND EYE WASH FOUNTAIN SHOULD BE LOCATED NEARBY. LAB COAT, COVER ALL IF REQUIRED.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

KEY1:C2. THIS PRODUCT IS A KIT. PART A, HAS PNI D; PART B HAS PNI E, SAME NSN. FORMULA CHANGED. FOR PREVIOUS FORMULATIONS SEE PNI A, B A ND C, SAME NSN.

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

HCC:B2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:604F,318C

Vapor Pres:1

Spec Gravity:0.99

Solubility in Water:SOLUBLE

Appearance and Odor:AMBER LIQUID, AMINE ODOR

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, STRONG ACIDS, STRONG BASES, EPOXIDES

Stability Condition to Avoid:OPEN FLAME, UNCONTROLLED HEAT,

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UNCONTROLLED MIXING WITH CURING AGENTS

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, AMINES AND OTHER ORGANIC SUBSTANCES MAY BE FORMED.

Conditions to Avoid Polymerization:OPEN FLAME, UNCONTROLLED HEAT, UNCONTROLLED MIXING WITH CURING AGENTS

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

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ation by the compiling agencies):

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