

EMERSON CUMING INC. SUB OF W R GRACE AND CO. -- CT-5047-2, PART B -- 8040-00-728-2887
===== Product Identification =====

Product ID:CT-5047-2, PART B
MSDS Date:04/28/1992
FSC:8040
NIIN:00-728-2887
Kit Part:Y
MSDS Number: BVZHC
=== Responsible Party ===
Company Name:EMERSON CUMING INC. SUB OF W R GRACE AND CO.
Address:77 DRAGON COURT
City:WOBURN
State:MA
ZIP:01888
Country:US
Info Phone Num:617-828
-3300
Emergency Phone Num:617-935-4850/617-938-8630
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

===== Composition/Information on Ingredients =====

Ingred Name:PROPOXYLATED TRIETHYLENE TETRAMINE
CAS:112-24-3
RTECS #:YE6650000
Fraction by Wt: 65-75%
Other REC Limits:NONE RECOMMENDED

Ingred Name:TRIETHYLENE TETRAMINE
CAS:

112-24-3

RTECS #:YE6650000

Fraction by Wt: 25-35%

Other REC Limits:NONE RECOMMENDED

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===== Hazards Identification =====
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Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYE-CONTAINS MATERIAL CORROSIVE TO THE EYE. SKIN-CONTAINS MATERIALS CORROSIVE TO THE SKIN.
INHALATION-VAPORS MAY CAUSE IRRITATION. INGESTION-HARMFUL IF SWALLOWED.

Explanation of Carcinogenicity:NOT CARCINOGENIC.

Effects of Overexposure:EYE-MAY CAUSE BURNS AND POSSIBLE CORNEAL INJURY. PERMANENT IMPAIRMENT OF VISION OR BLINDNESS MAY OCCUR. SKIN-MAY CAUSE SEVERE BURNS AND BLISTERING. INHALATION-NAUSEA AND HEADACHES. SYMPTOMS MAY INCLUDE TIGHTNESS OF THE CHEST, ASTHMA-LIKE SYMPTOMS, RESPIRATORY DISTRESS.

Medical Cond Aggravated by Exposure:EXPOSURE MAY AGGRAVATE PREEXISTING SKIN AND/OR EYE DISORDERS.

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===== First Aid Measures =====
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First Aid:EYE-FLUSH EYES THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN-REMOVE ANY CONTAMINATED CLOTHING & FLUSH AREA THOROUGHLY WITH PLENTY OF WATER. THEN WASH WITH SOAP & WATER. GET MEDICAL ATTENTION. INHALATION-REMOVE VICTIM TO FRESH AIR. PROVIDE OXYGEN IF BREATHING IS HARD. PERFORM CPR IF NOT BREATHING. GET MEDICAL ATTENTION. INGESTION-DILUTE BY GIVING WATER. GET MEDICAL AID.

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===== Fire Fighting Measures =====
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Flash Point:>200F,>93C

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

Fire Fighting Procedures:FIREFIGHTERS/RESCUE PERSONNEL SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE EQUIPMENT. COOL EXPOSED CONTAINERS WITH WATER.

Unusual Fire/Explosion Hazard:DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC. CLOSED CONTAINERS MAY VIOLENTLY RUPTURE UNDER FIRE CONDITIONS.

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===== Accidental Release Measures

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Spill Release Procedures:ACTIVATE AVAILABLE EXHAUST VENTILATION EQUIPMENT IN SPILL AREA. WIPE UP OR ABSORB SPILLED MATERIAL WITH VERMICULITE OR OTHER SIMILIAR MATERIAL. WASH AREA WITH SOAPY WATER TO REMOVE RESIDUE. COLLECT AB SORBED MATERIAL & WATER RINSE IN APPROPIATE CANS.

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Handling and Storage

Handling and Storage Precautions:STORE IN A COOL, DRY LOCATION WITH ADEQUATE VENTILATION. KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE. KEEP AWAY FROM OPEN FLAME & HEAT SOURCES.

Other Precautions:CONSULT THE PRODUCT TECHNICAL BULLETIN FOR DETAILED STORAGE INFORMATION.

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Exposure Controls/Personal Protection

Respiratory Protection:USE AN APPROPRIATE, PROPERLY FITTED RESPIRATOR IF EXPOSURES EXCEED PEL/TLV VALUES. THE TYPE OF RESPIRATOR SELECTED WILL DEPEND UPON THE CONDITIONS OF USE. OBSERVE OSHA REGULATIONS FOR RESPIRATORY PROTE CTION (29CFR 1910.134).

Ventilation:PROVIDE EFFECTIVE MECHANICAL EXHAUST VENTILATION TO DRAW VAPORS, MIST OR FUMES GENERATED DURING PROCESSING AWAY.

Protective Gloves:APPROPIATE PROTECTIVE GLOVES.

Eye Protection:SAFETY/CHEMICAL GOGGLES, FACE SHIELD.

Other Protective Equipment:PROPER CHEMICAL RESISTANT APRON & ADDITIONAL IMPERVIOUS CLOTHING SHOULD BE USED TO PREVENT SKIN CONTACT.

Work Hygienic Practices:NORMAL WORK CLOTHING SHOULD BE WASHED BEFORE RESUE. WASH HANDS AND FACE THOROUGHLY AFTER HANDLING THIS PRODUCT

Supplemental Safety and Health
THIS ITEM IS A "TWO" PART KIT.

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Physical/Chemical Properties

HCC:N1

Boiling Pt:B.P. Text:>400F,>204C

Vapor Pres:AIR

Spec Gravity:1.02

Solubility in Water:SOLUBLE

Appearance and Odor:AMBER LIQUID, AMINE ODOR.

Percent Volatiles by Volume:NEGL

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Stability and Reactivity Data

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZERS, ACIDS, BASES.

Stability Condition to Avoid:AVOID STORA

GE IN OPEN CONTAINERS, EXPOSURE TO OPEN FLAMES OR UNCONTROLLED EXPOSURE TO HEAT, UNCONTROLLED MIXING.

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, AMMONIA, & OTHER ORGANIC SUBSTANCES MAY BE FORMED IN COMBUSTION.

Conditions to Avoid Polymerization: HAZARDOUS POLYMERIZATION WILL NOT OCCUR, HOWEVER, REVIEW REACTIVITY DATA CONCERNING CONDITIONS TO AVOID.

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

Waste Dispos

al Methods: DISPOSE OF IN ACCORDANCE WITH CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

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