

EMERSON AND CUMING, INC; A GRACE COMPANY -- TU917A -- 8030-01-024-9574  
===== Product Identification =====

Product ID:TU917A  
MSDS Date:06/17/1988  
FSC:8030  
NIIN:01-024-9574  
Kit Part:Y  
MSDS Number: BQSJF  
=== Responsible Party ===  
Company Name:EMERSON AND CUMING, INC; A GRACE COMPANY  
Address:77 DRAGON COURT  
City:WOBURN  
State:MA  
ZIP:01888  
Country:US  
Info Phone Num:617: 935-4850/938-8630/828-3300  
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ncy Phone Num:617: 935-4850/938-8630  
Preparer's Name:DAVID A HAAS  
CAGE:OB562  
=== 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:EMERSON AND CUMING, INC,  
Address:77 DRAGON CT.  
City:WOBURN  
State:MA  
ZIP:01888-5000  
Country:US  
Phone:617-935-4850/617-938-8630  
CAGE:OB562

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

Ingred Name:DIPHENYL METHANE DIISOCYA

NATE (MDI) (SARA III)  
CAS:26447-40-5  
Fraction by Wt: >70%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.02 MG/M3  
ACGIH TLV:0.02 MG/M3

Ingred Name:MDI HOMOPOLYMER  
Fraction by Wt: 350F,>177C  
Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, FOAM  
Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS. COMPLETE BODY PROTECTION REQUIRED FOR FIGHTING MAJOR FIRES.  
Unusual Fire/Explosion Hazard:AVOID WATER CONTAMINATION IN CLOSED/CONFINED AREA. REACTION W/WATER/MOISTURE MAY RESULT IN POLYMERIZATION LEADING TO CO2 & HEAT BLDUP-MAY RUPTURE SEALED CNTNR.

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

Spill Release Procedures:LRG:EVACUATE NONESSENTIAL. CLEAN IN ACCORD W/OSHA 29CFR1910.120. WEAR SCBA. SMALL:TURN ON VENT EQUIP. WIPE UP/USE ABSORBENT. COLLECT IN SEALED CNTNRS. SCRUB W/SOAPY WATER. RINSE. PREVENT RINSES FROM ENTERING WATERBODIES.DIKE.SHOVEL/PUMP TODRUM/TANK.  
Neutralizing Agent:DECONTAM USING WATER/AMMONIA SOLUTION W/1-2% DETERGENT. LET STAND 10 MIN.

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

Handling and Storage Precautions:MAY CAUSE SKIN SENSITIZATION. DONT INGEST. DONT EXPOSE TO MOISTURE. MOISTURE WILL MAKE PRODUCT UNUSEABLE. KEEP FROM FREEZING.  
Other Precautions:KEEP MATERIAL BLANKETED UNDER NITROGEN TO PREVENT REACTION WITH AIR OR MOISTURE. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME.

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

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Respiratory Protection:WEAR AN APPROPRIATE, PROPERLY FITTED RESPIRATOR WHEN CONTAMINANT LEVELS EXCEED THE RECOMMENDED EXPOSURE LIMITS. FOR SPRAYING APPLICATIONS, OR FOR NON-SPRAY APPLIC ABOVE 10X TLV, AN APPROPRIATE SUPPLIE D-AIR RESPIRATOR IS REQUIRED.

Ventilation:USE WITH PROPER MECHANICAL EXHAUST VENTILATION.

Protective Gloves:WEAR PROPER PROTECTIVE GLOVES.

Eye Protection:WEAR PROPER PROTECTIVE GOGGLES.

Other Protective Equipment:WEAR PROPER PROTECTIVE CLOTHING TO PREVENT

EXPOSURE. USE CHEM RESISTANT APRON OR IMPERVIOUS CLOTHING.

Work Hygienic Practices:REMOVE CONTAMINATED CLOTHING & WASH BEFORE REUSE.

Supplemental Safety and Health

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

Boiling Pt:B.P. Text:>350F,>177C

Decomp Temp:Decomp Text:>500F,>260C

Vapor Pres:3 X 10<sup>-4</sup>

Spec Gravity:1.2 (WATER=1)

Solubility in Water:REACTS WITH WATER

Appearance and Odor:COLORLESS TO SLIGHTLY YELLOW LIQUID; VERY SLIGHT, IF ANY, ODOR

Percent Vola

tiles by Volume:NEG

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

Stability Indicator/Materials to Avoid:YES

WATER, STRONG BASES, ALCOHOLS, METAL COMPOUNDS OR SURFACE ACTIVE AGENTS.

Stability Condition to Avoid:STORAGE IN OPEN CNTNRS, EXPOSURE TO HEAT/FLAME, UNCONTROLLED MIXING W/INCOMPATIBLE SUBSTANCES. AVOID TEMPS >120F.

Hazardous Decomposition Products:CARBON MONOXIDE, OXIDES OF NITROGEN, TRACES OF HYDROGEN CYANIDE, ISOCYANATES.

Conditions to Avoid Poly

merization:AVOID MIXING WITH INCOMPATIBLE

MATERIALS (WATER, STRONG BASES, ALCOHOLS, METAL COMPOUNDS OR SURFACE ACTIVE AGENTS).

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

Waste Disposal Methods:SPILLED MATERIAL & WATER RINSES AREA CLASSIFIED AS CHEMICAL WASTE & MUST BE DISPOSED OF IN ACCORDANCE WITH CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

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