

RESIN TECHNOLOGY GROUP INC -- ACTIVATOR A -- 1660-00-325-0283

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===== Product Identification =====  
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Product ID:ACTIVATOR A

MSDS Date:01/11/1995

FSC:1660

NIIN:00-325-0283

Kit Part:Y

MSDS Number: CCMQH

=== Responsible Party ===

Company Name:RESIN TECHNOLOGY GROUP INC

Address:28 NORFOLK AVE

City:SOUTH EASTON

State:MA

ZIP:02375

Country:US

Info Phone Num:508-230-8070 FAX: 508-230-2318

Emergency Phone Num:

800-424-9300 CHEMTREC

CAGE:0JVX9

=== Contractor Identification ===

Company Name:MORTON THIOKOL,INC;ARMSTRONG PRODUCTS COMPANY

Address:407-ARGONNE ROAD

Box:647

City:WARSAW

State:IN

ZIP:46580-3811

Country:US

Phone:219-267-3226

CAGE:98911

Company Name:RESIN TECHNOLOGY GROUP INC

Address:28 NORFOLK AVE

Box:City:S EASTON

State:MA

ZIP:02375

Country:US

Phone:508-230-8070

CAGE:0JVX9

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===== Composition/Information on Ingredients =====  
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Ingred Name:DIETHYLENETRIAMINE

CAS:111-40-0

RTECS #:

IE1225000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 PPM

ACGIH TLV:S, 1 PPM; 9596

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

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

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

Health Hazards Acute and Chronic:CORROSIVE! CONTACT MAY CAUSE SEVERE IRRITATION/BURNS TO SKIN & EYES; MAY CAUSE HYPERSENSITIVITY IN SOME INDIVIDUALS. INHALA

TION MAY CAUSE IRRITATION OF RESPIRATORY SYSTEM; MAY CAUSE HYPERSENSITIVITY I N SOME. INGESTION MAY CAUSE SEVERE IRRITATION/BURNS TO MOUTH/THROAT/GI TRACT. MAY ALSO AFFECT LIVER, KIDNEY, IMMUNE SYS.

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.

Effects of Overexposure:EYES-SEVERE IRRITATION, BURNS. SKIN-BURNS, TISSUE DAMAGE, HYPERSENSITIVITY. INHALED-IRRITATION OF UPPER RESPIRATORY SYS

TE, COUGHING, SHORTNESS OF BREATH, TIGHTNESS IN CHEST. INGESTED-SEVERE BURNS TO M OUTH/THROAT/DIGESTIVE TRACT, NAUSEA, VOMITING, GI TRACT UPSET.

Medical Cond Aggravated by Exposure:PRE-EXISTING LIVER, KIDNEY, RESPIRATORY, IMMUNE SYSTEM DISORDERS.

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

First Aid:IN ALL CASES GET MEDICAL ATTENTION. EYES-FLUSH WITH WATER FOR 15 MINUTES. SKIN-REMOVE CONTAMINATED CLOTHES. WASH WITH MILD SOAP & WATER. INHALED-REMOVE

TO FRESH AIR. ADMINISTER OXYGEN OR ARTIFICIAL RE SPIRATION AS NEEDED. INGESTED-CONTACT POISON CONTROL CENTER AND OBTAIN IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING! IF CONSCIOUS, GIVE 2 CUPS WATER. NO CARBONATED BEVERAGES!

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

Flash Point Method:SCC

Flash Point:>200F,>93C

Extinguishing Media:SMALL FIRES: HALON, WATER FOG, CARBON DIOXIDE, DRY CHEMICAL, FOAM. LARGE FIRES: WATER SPRAY/FOG, ALCOHOL FOAM.

Fire

Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL FIRE FIGHTER'S PROTECTIVE GEAR. WATER MAY CAUSE FROTHING.  
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:VENTILATE AREA. EVACUATE IF EXPOSURE EXCEEDS TLV. CONTAIN SPILL. IF LARGE AMOUNT SPILLED, USE PUMP OR VACUUM TO PICK-UP. OTHERWISE, ABSORB WITH INERT MATERIAL. SCOOP UP & PLACE IN A CONTAINER FOR LATER DISPOSAL. REPORT SPILL IF REQUIRED BYLAW.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED PLACE. DO NOT STORE ABOVE 86F. AVOID CONTACT WITH EYES, SKIN, CLOTHES. USE APPROPRIATE VENTILATION/RESPIRATORS.  
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:  
IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.  
Ventilation:USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).  
Protective Gloves:IMPERVIOUS-RUBBER.  
Eye Protection:CHEMICAL SPLASH GOGGLES+FACESHIELD.  
Other Protective Equipment:RUBBER APRON. EYE WASH STATION & SAFETY SHOWER.  
DO NOT WEAR CONTACT LENSES.  
Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.  
Supplemental Safety and Health  
KEY1=C4. PART B OF 81 PART KIT. ONLY PNI A, B & C ARE HAZARDOUS-AS BEST AS DLA-HMIS CAN FIGURE OUT.

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

HCC:B2  
Boiling Pt:=203.3C, 398.F  
B.P. Text:398F,203C  
Vapor Pres:1  
Vapor Density:3.56  
Spec Gravity:0.95  
Solubility in Water:COMP

LETE

Appearance and Odor:AMBER, VISCOUS LIQUID; AMINE ODOR.

Percent Volatiles by Volume:1.0

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, ACIDS, WATER, CHEMICALLY ACTIVE METALS; EG  
NICKEL, COBALT, COPPER, IRON.

Stability Condition to Avoid:AVOID CONTACT WITH INCOMPATIBLE MATERIALS.

Hazardous Decomposition Products:AMINES, OXIDES OF NITROGEN, SMOKE,  
SOOT, CARBON DIOXIDE, CARBON MONOXIDE.

Conditions

to Avoid Polymerization:WILL NOT OCCUR.

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

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

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