

AMERICAN SAFETY TECHNOLOGIES INC -- M-375 HARDENER -- 8010-01-397-3806

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===== Product Identification =====

Product ID:M-375 HARDENER

MSDS Date:08/04/1998

FSC:8010

NIIN:01-397-3806

Status Code:A

MSDS Number: CKZCV

=== Responsible Party ===

Company Name:AMERICAN SAFETY TECHNOLOGIES INC

Address:565 EAGLE ROCK AVE

City:ROSELAND

State:NJ

ZIP:07068

Country:US

Info Phone Num:973-403-2600

Emergency Phone

Num:1-800-424-9300

Preparer's Name:ERNEST CARTER

Chemtrec Ind/Phone:(800)424-9300

CAGE:88444

=== Contractor Identification ===

Company Name:AMERICAN SAFETY TECHNOLOGIES INC

Address:565 EAGLE ROCK AVE

Box:City:ROSELAND

State:NJ

ZIP:07068

Country:US

Phone:973-403-2600

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

Ingred Name:FATTY ACIDS, C18-UNSATD., DIMERS, POLYMERS WITH
TRIETHYLENETETRAMINE, REACTION PRODUCTS WITH POLY(BISPHENOL A
DIGLYCIDYL ETHER)

CAS

:68424-41-9
Minumum % Wt:40.
Maxumum % Wt:60.

Ingred Name:AMIDOAMINE RESIN
CAS:68443-08-3
Code:F
Minumum % Wt:10.
Maxumum % Wt:15.

Ingred Name:1-METHOXY-2-PROPANOL
CAS:107-98-2
RTECS #:UB7700000
Minumum % Wt:10.
Maxumum % Wt:25.
ACGIH TLV:369 MG/M3;100 PPM
ACGIH STEL:553 MG/M3;150 PPM

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:EYES: CAUSES SEVERE IRRITATION OR
BURNS. SKIN:
CAUSES SEVERE IRRITATION OR BURNS. INHALATION: MAY
CAUSE UPPER RESPIRATORY TRACT IRRITATION. INGESTION MAY CAUSE BURNS
OF MOUTH AND THROAT.
Effects of Overexposure:IRRITATION,SENSITIZATION AND DERMATITIS
Medical Cond Aggravated by Exposure:ALLERGY, ECZEMA AND OTHER SKIN
CONDITIONS.

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

First Aid:EYES: FLUSH WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15
MINUTES. GET MEDICAL ATTENTION. SKIN:REMOVE CONTAMINATED CLOT
HING.
WASH CONTACT AREA WITH MILD SOAP AND WATER . INHALATION: REMOVE TO
FRESH A IR. IF SYMPTOMS PERSIST CONSULT A PHYSICIAN. INGESTION: DO
NOT INDUCE VOMITING. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER
TO DILUTE. GET MEDICAL ATTENTION.

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

Flash Point Method:PMCC
Flash Point:=38.C, 100.4F
Lower Limits:2.0
Upper Limits:12.0
Extinguishing Media:DRY CHEMICAL, CHEMICAL FOAM, CARBON DIOXIDE OR
WATER
Fire Fighti

ng Procedures:REMOVE ALL SOURCES OF IGNITION. WEAR COMPLETE PERSONAL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS WHERE POTENTIAL FOR EXPOSURE TO VAPORS OR PRODUCTS OF COMBUSTION EXISTS.

Unusual Fire/Explosion Hazard:DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC.

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

Spill Release Procedures:REMOVE ALL SOURCES OF IGNITION. DIKE SPILL. ABSORB WITH INERT MATERIAL AND COLLECT FOR DISPOSAL

L. FLUSH

CONTAMINATED AREA WITH DILUTE ACETIC ACID (5%0 AND COLLECT RINSAFE FOR DISPOSAL.

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

Handling and Storage Precautions:AVOID ALL PERSONAL CONTACT. DO NOT EXCEED 110 F/43 C IN STORAGE AREA. GROUND AND BOND METAL CONTAINERS FOR LIQUID TRANSFER TO AVOID STATIC SPARKS.

Other Precautions:A SAFETY SHOWER AND EYE WASH FACILITY SHOULD BE AVAILABLE TO EMPLOYEES.

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

Respiratory Protection:NIOSH/MSHA APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE IF REQUIRED.

Ventilation:EXPLOSION-PROOF MECHANICAL VENTILATION AND LOCAL EXHAUST RECOMMENDED

Protective Gloves:IMPERVIOUS GLOVES

Eye Protection:CHEMICAL SPLASH-PROOF GOGGLES

Other Protective Equipment:IN OPERATIONS WHERE CONTACT MAY OCCUR

COVERALLS, APRON AND IMPERVIOUS FOOT COVERING AREA RECOMMENDED

Supplemental Safety and Health

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

Boiling Pt:=118.C, 244.4F

Vapor Pres:4.3MMHG

Vapor Density:(AIR=1)

Spec Gravity:0.96

Evaporation Rate & Reference:(BUTYL ACETATE=1)

Solubility in Water:PARTIALLY SOLUBLE

Appearance and Odor:AMBER LIQUID, SOLVENT ODOR

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:EXCESSIVE HEAT

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE , AND OXIDE

S OF NITROGEN.

Conditions to Avoid Polymerization:WILL NOT OCCUR

===== Toxicological Information =====

Toxicological Information:PROTECTIVE CLOTHING:DEPENDENT UPON APPLICATION METHOD WEAR RESISTANT COVERALLS,GLOVES&SHOE COVERINGS-PREVENT SKIN CONTACT.CONSULT 29 CFR 1910.132, 133, 136, 138; ANSI Z87.1 AN Z41. USE EXPLOSION AND SPARK PROOF EQUIPMENT. TITANIUM DIOXIDE: LD50 10G/KG (DERMAL RABBIT), LC50 6820PPM (INHALE, RAT) XYLENE: LD50 3.9G/KG (DERMAL, RABBIT) LC50 6700PPM (INHALE, RAT) NAPHTHA: LD50 3.1 G/KG (DERMAL ,RABBIT) LC50 3670 PPM(INHALE, RAT) EPOXY RESIN: LD50 4G/KG (DERMAL, RABBIT) MANGANESE OXIDE: LD50 0.40 G/KG (DERMAL, RABBIT)

===== Ecological Information =====

Ecological:IMPLEMENT ADMINISTRATIVE AND ENGINEERING CONTROLS TO REDUCE EXPOSURE. PROVIDED SUFFICIENT VENTILATION IN VOLUME AND PATTERN TO KEEP AIR CONTAMINANT CONCENTRATIONS BELOW THE TLV LIMITS. REMOVE WELDING OR FLAME CUTTING DECOMPOSITION PRODUCTS, FOLLOW CURRENT ANSI Z49.1, "SAFETY IN WELDING AND CUTTING." REFER TO 29 CFR PARTS 1910 AND 1915. FOR COATING OPERATIONS; PART 1910.146, CONFINED SPACES. EPA WASTE NO.: D001

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

Waste Disposal Methods:THIS PRODUCT, IF DISPOSED AS SHIPPED, MEETS EPA CRITERIA OF A HAZARDOUS WASTE AS SPECIFIED IN 40 CFR 261 ON THE BASIS OF ITS IGNITABILITY. DISPOSE OF IN A LICENSED HAZARDOUS WASTE FACILITY IN ACCORDANCE WITH APPLICABLE LAWS.

===== MSDS Transport Information =====

Transport Information:DOT: PAINT, DOT: FLAMMABLE UN# 1263

===== Regulatory Information =====

SARA Title III Information:ALL INGREDIENTS ARE ON TSCA INVENTORY OR ARE EXEMPT. (SARA, CERCLA, HAPS) TOXIC CHEMICAL SUBJECT TO REPORTING REQUIREMENTS OF SAARA AND CERCLA (40 CFR 302, 355, 372) OR HAPS (40

CFR 63).

State Regulatory Information: CALIFORNIA PROPOSITION 65: WARNING! THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. WARNING! THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. 1) ALUMINO SILICATE 2) ANTISKID AGGREGATE 3) XYLENE 4) HIGH FLASH NAPHTHA 5) REACTIVE DILUENT

===== Other Information =====

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