

EMERSON AND CUMING,INC, A GRACE CO -- CATALYST 12-2H -- 5970-00-768-0527

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

Product ID:CATALYST 12-2H

MSDS Date:06/20/1996

FSC:5970

NIIN:00-768-0527

Kit Part:Y

MSDS Number: CHMCH

=== Responsible Party ===

Company Name:EMERSON AND CUMING,INC, A GRACE 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, 417-938-8630

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

Company Name:TRIMAN INDUSTRIES INC

Address:420 COMMERCE LN SUITE 8

Box:City:WEST BERLIN

State:NJ

ZIP:08091

Country:US

Phone:856-767-7945 /FAX: 856-

767-7154
CAGE:0ZBE8

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Composition/Information on Ingredients
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Ingred Name:PIGMENTS AND MODIFIERS
Fraction by Wt: < 5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:POLYMERS -- TRIMETHYLOLPROPANE/ADIPIC ACID
Fraction by Wt: 70-80%
Other REC Limits:NONE RECOMMENDED

Ingred Name:TRIMETHYLOLPROPANE PHOSPHITE (SARA 302)
CAS:824-11-3
RTECS #:TY6650000
Fraction by Wt: 10-15%
Other REC Limits:NONE RECOMMENDED

Ingred Name:ADIPIC ACID (CERCLA)
CAS:124-04-9
RTECS #:AU8400000
Fraction by Wt: < 5%
Other REC Limits:NONE RECOMMENDED
ACGIH TLV:5 MG/M3; 9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:SILICONE RESIN
Fraction by Wt: < 5%
Other REC Limits:NONE RECOMMENDED

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Hazards Identification
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LD50 LC50 Mixture:PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

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

Health Hazards Acute and Chronic:EYE:MAY CAUSE SEVERE

, REVERSIBLE EYE

IRRITATION. SKIN:MAY CAUSE SKIN IRRITATION. PROLONGED CONTACT MAY CAUSE DERMATITIS. INHALATION:MAY CAUSE RESPIRATORY SENSITIZATION RESPONSES IN SUSCEPTIBLE INDIVIDUALS CAUSING ASTHMA-LIKE SYMPTOMS. INGESTION:HARMFUL IF SWALLOWED. CHRONIC-

Explanation of Carcinogenicity:CONTAINS TOLUENE DIISOCYANATE. SEE THE INDIVIDUAL IARC & NTP REPORTS FOR DETAILS OF CARCINOGENICITY.

Effects of Overexposure:SKIN-SYMPTOMS MAY INCLUDE RASH, ITCHING, HIVES, REDDENING, OR S

WELLING OF THE EXTREMITIES. INHALATION-SYMPTOMS MAY INCLUDE TIGHTNESS OF THE CHEST, ASTHMA-LIKE SYMPTOMS, RESPIRATORY DISTRESS; SYMPTOMS MAY BE DELAYED.

Medical Cond Aggravated by Exposure: PERSONS W/ASTHMA-TYPE CONDITIONS, CHRONIC BRONCHITIS, OTHER CHRONIC RESPIRATORY DISEASES OR RECURRENT SKIN EDEMA OR SENSITIZATION SHOULD BE EXCLUDED FROM WORKING W/ISOCYANATES.

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

First Aid: IF IRRITATION PERSISTS OR IS SEVERE, GET MEDICAL ATTENTION.

EYE: FLUSH W/WATER FOR 15 MIN. SKIN: REMOVE CONTAMINATED CLOTHING & LAUNDRER BEFORE REUSE. FLUSH SKIN W/WATER THEN WASH W/SOAP & WATER. INHALED : REMOVE FROM EXPOSURE. AID OR RESTORE BREATHING AS NEEDED. INGESTED: DO NOT INDUCE VOMITING. GIVE 1-2 GLASSES OF MILK OR WATER TO DRINK. GET IMMEDIATE MEDICAL ATTENTION. NOTHING BY MOUTH IF UNCONSCIOUS

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

Flash Point: 270F, 132C

Lower Limits: N

OT GIVEN

Upper Limits: NOT GIVEN

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

AVOID USING DIRECT STREAMS OF WATER; FROTHING MAY OCCUR.

Fire Fighting Procedures: FIREFIGHTERS & RESCUE PERSONNEL SHOULD WEAR POSITIVE PRESSURE SCBA & FULL PROTECTIVE EQUIPMENT. COOL EXPOSED CONTAINERS W/WATER TO PREVENT PRESSURE BUILD-UP.

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

ITIONS. IF LARGE FIRE, EVACUATE & FIGHT FROM DISTANCE

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

Spill Release Procedures: ACTIVATE ALL EXHAUST VENTILATION IN THE IMMEDIATE AREA. WIPE UP, OR ABSORB SPILLED MATERIAL W/VERMICULITE OR OTHER SIMILAR MATERIAL. WASH AREA W/SOAPY WATER & ALLOW TO PLOYMERIZE. COLLECT ABSORBED WA STE & RINSES IN APPROPRIATE WASTE CONTAINERS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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===== Handling and S

storage =====

Handling and Storage Precautions:STORE IN A TIGHTLY SEALED COTAINER AT ROOM TEMPERATURE. PROVIDE PROPER VENTILATION. KEEP BLANKETED IN NITROGEN TO RETARD POLYMERIZATION.

Other Precautions:KEEP AWAY FROM OPEN FLAMES AND HEAT SOURCES. CONSULT THE PRODUCT TECHNICAL BULLETIN FOR DETAILING STORAGE INFORMATION.

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

Respiratory Protection:USE AN APPROPRIATE, PROPERLY FITTED RESPIRATOR IF EXP

OSURE EXCEED PEL/TLV VALUES. THE TYPE OF RESPIRATORY PROTECTION SELECTED WILL DEPEND ON THE CONDITIONS OF USE. OBSERVE OSHA REGULATION 29CFR1910.134 ON RESPIRATORY PROTECTION.

Ventilation:PROVIDE EFFECTIVE MECHANICAL EXHAUST VENTILATION TO DRAW VAPORS, MISTS OR FUMES AWAY FROM THE WORKER/PREVENT INHALATION.

Protective Gloves:WEAR APPROPRIATE PROTECTIVE GLOVES

Eye Protection:SPLASH-PROOF GOGGLES OR FACE SHIELD

Other Protective Equipment:CHEMICAL-RESISTANT APRON & ADDITIONAL IMPERV

IOUS CLOTHING TO PREVENT SKIN CONTACT. EYE WASH & SAFETY SHOWER, A MUST!

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

EMPLOYEES MUST BE PORPERLY TRAINED IN SAFE HANDLING OF THIS PRODUCT PRIOR TO USE.

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

HCC:T3

NRC/State Lic Num:NONE

Boiling Pt:B.P. Text:NOT GIVEN

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

De

comp Temp:Decomp Text:NOT GIVEN

Vapor Pres:NEGLIGIBLE

Vapor Density:NOT GIVEN

Spec Gravity:1.12

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:REACTS WITH WATER.

Appearance and Odor:RED LIQUID, SHARP ODOR.

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDERS, ACIDS, BASES; UNCONTROLLED MIXING W/ AMINES, WATER, POLYOLS OR ALCOHOLS MAY CAUSE HAZARDOUS POLYMERIZATI

Stability Condition to Avoid:OPEN FLAME

OR HEAT SOURCES, UNCONTROLLED

MIXING WITH CURING AGENTS OR EXPOSURE TO INCOMPATIBLE SUBSTANCES.

Hazardous Decomposition Products:OXIDES OF CARBON, ISOCYANATES, ORGANIC ACIDS, & ALDEHYDES, TRACES OF CYANIDE & OTHER ORGANIC SUBSTANCES FROM COMBUSTION.

Conditions to Avoid Polymerization:CONTAMINATION FROM INCOMPATIBLES, UNCONTROLLED MIXING, AVOID STORAGE IN OPEN CONTAINERS, MAY LEAD TO MIXTURE ABSORPTION.

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

Waste

Disposal Methods:KEEP CONTAINERS LOOSELY SEALED IN VENTILATED AREA FOR 24-48 HOURS. DISPOSE OF I/A/W LOCAL, STATE AND FEDERAL REGULATIONS.

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