

EMERSON CUMING INC. SUB OF W R GRACE AND CO. -- CATALYST 11 -- 5970-00-081-4333  
===== Product Identification =====

Product ID:CATALYST 11  
MSDS Date:02/06/1995  
FSC:5970  
NIIN:00-081-4333  
Kit Part:Y  
MSDS Number: CCBXV  
=== 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  
Emerge  
ncy Phone Num:617-935-4850/617-938-8630  
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:P-PHENYLENEDIAMINE (SARA 313) (CERCLA)  
CAS:106-50-3  
RTECS #:SS8050000  
Fraction by Wt: >70%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:S, 0.1 MG/M3  
ACGIH TLV:0.1 MG/M3; 9596  
EPA Rpt Qty:1 LB  
DOT Rpt Qty

:1 LB

Ingred Name:N-METHYL PYRROLIDONE

Fraction by Wt: 20-30%

Other REC Limits:NONE RECOMMENDED

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

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

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

Health Hazards Acute and Chronic:MAY CAUSE SEVERE EYE IRRITATION. MAY CAUSE MODERATE SKIN IRRITATION. PROLONGED OR REPEATED EXPOSURE TO THE LIQUID MAY CAUSE DEFATTING OR DRYING OF SKIN, LEADING TO DERMATITIS. M

AY CAUSE SKIN SENSITIZATION. INHALATION MAY CAUSE RESPIRATORY IRRITATION, NAUSEA, HEADACHES. HARMFUL IF SWALLOWED.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:EYE IRRITATION, BLURRED VISION, BURNING SENSATION, TEARING, SKIN IRRITATION, DEFATTING, DRYING, DERMATITIS, RESPIRATORY TRACT IRRITATION, RASH, ITCHING, HIVES, SWELLING OF EXTREMITIES, NAUSEA, HEADACHES.

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

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

First Aid:INHALATION- REMOVE TO FRESH AIR. EYES- IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES; GET MEDICAL ATTENTION. SKIN- REMOVE CONTAMINATED CLOTHING; WASH AFFECTED AREA WITH SOAP AND WATER. INGESTION- IF PERSON IS ALERT, DILUTE BY GIVING PLENTY OF WATER. GET MEDICAL ATTENTION IMMEDIATELY.

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

Flash Point Method:PMCC

Flash Point:>200F,>93C

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

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

Fire Fighting Procedures:FIRE FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL TANKS AND CONTAINERS EXPOSED TO FIRE WITH WATER.

Unusual Fire/Explosion Hazard:TOXIC FUMES MAY BE EVOLVED UPON EXPOSURE TO HEAT OR OPEN FLAME

ME. CLOSED CONTAINERS MAY VIOLENTLY RUPTURE  
UNDER FIRE CONDITIONS.

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

Spill Release Procedures:SMALL: WIPE UP, OR ABSORB WITH VERMICULITE OR  
OTHER ABSORBENT MATERIAL. COLLECT WASTE IN SEALED CONTAINERS. USE  
OF SOLVENTS FOR CLEAN-UP SHOULD BE LIMITED TO VERY SMALL SPILLS.  
SCRUB AREA WITH SOAPY WATER AND RINSE. LARGE: DIKE AREA. PUMP TO  
DRUM.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP CONTAINER CLOSED WHEN NOT IN USE.  
WEAR PROTECTIVE CLOTHING. AVOID SKIN AND EYE CONTACT. AVOID  
BREATHING VAPORS.

Other Precautions:VAPORS ARE HEAVIER THAN AIR AND WILL SETTLE AND  
COLLECT IN LOW AREAS AND PITS, DISPLACING BREATHING AIR.

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

Respiratory Protection:NONE SPECIFIED BY MANUFACTURER.

Ventilation:PROVIDE ADEQUATE VENTILATION TO PROTECT FROM HAZARDS AND  
KEEP BELOW MAXIMUM EXPOSURE VALUES.

Protective Gloves:NEOPRENE OVER RUBBER LATEX

Eye Protection:SPLASH-PROOF GOGGLES

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO  
PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE  
AVAILABLE.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER  
BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health

THIS IS A THREE PART KIT. 1 QT.

STYCAST, 3 OZ. CATALYST 9, AND 4 OZ.

CATALYST 11.

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

HCC:T6

Boiling Pt:B.P. Text:NOT GIVEN

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

Decomp Temp:Decomp Text:NOT GIVEN

Vapor Pres:AIR

Spec Gravity:1.02-1.14

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:NOT GIVEN

Appearance and Odor:DARK BROWN LIQUID, ODOR NOT SPECIFIED

Percent Volatiles by Volume:NEG.

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

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Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZERS, ACIDS, BASES, EPOXIDES.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: THE CHEMICAL NATURE AND QUANTITY OF  
DECOMPOSITION BY-PRODUCTS WILL VARY WIDELY DEPENDING ON THE  
CONDITIONS OF COMBUSTION

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

Waste Disposal Methods: DISPOSE OF ALL SPILLED MATERIAL AND WATER RINSES  
IN ACCORDANCE WITH CURRENT STATE, LOCAL  
AND FEDERAL REGULATIONS.

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