

EMERSON & CUMING,INC., DIV OF W.R.GRACE AND CO. -- CATALYST 15 BLACK --  
8040-00-148-7183

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

Product ID:CATALYST 15 BLACK

MSDS Date:11/08/1989

FSC:8040

NIIN:00-148-7183

Kit Part:Y

MSDS Number: BVFWB

=== Responsible Party ===

Company Name:EMERSON & CUMING,INC., DIV OF W.R.GRACE AND CO.

Address:61 HOLTON STREET

City:WOBURN

State:MA

ZIP:01180

Country:US

Info Phone Num:

800-225-1936

Emergency Phone Num:800-225-1936

Preparer's Name:DAVID HAAS

CAGE:0JMR7

=== Contractor Identification ===

Company Name:EMERSON & CUMING,INC., DIV OF W.R.GRACE AND CO.

Address:61 HOLTON STREET

Box:City:WOBURN

State:MA

ZIP:01180

Country:US

Phone:800-225-1936

CAGE:0JMR7

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

Ingred Name:POLYAMIDE RESIN

Fraction by Wt: > 90%

Other REC Limits:NONE SPECIFIED

Ingred Name:TRIETHYLENE TETRAMINE

CAS:112-24-3

RTECS #:YE6650000

F

raction by Wt: < 5%  
Other REC Limits:NONE SPECIFIED

Ingred Name:TERPHENYLS  
Fraction by Wt: < 5%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:0.5 PPM (CEILING)  
ACGIH TLV:0.5 PPM (CEILING)

Ingred Name:NON HAZARDOUS MODIFIERS  
Fraction by Wt: < 5%  
Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:REPEATED OVER  
EXPOSURE TO TRIETHYLENE

TETRAMINE IS REPORTED TO CAUSE LIVER AND KIDNEY DAMAGE. THIS  
MATERIAL MAY BE TOXIC IF ABSORBED THROUGH THE SKIN.

Explanation of Carcinogenicity:NOT CARCINOGENIC.

Effects of Overexposure:INHALATION-INHALATION MAY CAUSE RESPIRATORY  
TRACT IRRITATION. EYE-VERY SEVERE IRRITATION UPON CONTACT. CAN  
CAUSE PERMANENT DAMAGE OR BLINDNESS. SKIN-SEVERE IRRITATION UPON  
DIRECT CONTACT. MAY RESULT I N BURNS & TISSUE DAMAGE.  
INGESTION-HARMFUL IF SWALLOWED.

Medical

Cond Aggravated by Exposure:NO DATA AVAILABLE FOR THIS PRODUCT  
MIXTURE.

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

First Aid:INHALE-REMOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING IS  
DIFFICULT, ARTIFICIAL RESPIRATION IF NOT BREATHING. SEE DOCTOR.  
EYE-IMMEDIATELY FLUSH WITH PLENTY OF WATER CONTINUE FLUSHING UNTIL  
PHYSICIAN IS SEEN. SKIN-REMOVE CONTAMINATED CLOTHING, WASH  
AFFECTED AREA WITH SOAP AND WATER. INGESTION-DILUTE WITH LARGE  
QUANTITIES OF  
WATER. DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL  
ATTENTION.

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

Flash Point Method:CC  
Flash Point:>300F/>149C  
Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER FOG.  
Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR SELF-CONTAINED  
BREATHING APPARATUS.  
Unusual Fire/Explosion Hazard:TOXIC VAPORS MAY BE EVOLVED UPON EXPOSURE  
TO HEAT OR OPEN FLAME.

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

=====

Spill Release Procedures:TURN ON VENTILATION EQUIPMENT TO EVACUATE VAPORS WHICH MAY BE RELEASED IN THE IMMEDIATE AREA OF A SPILL. WIPE UP, OR ABSORB WITH VERMICULITE OR OTHER ABSORBENT MATERIAL. COLLECT WASTE IN SEALED CONTAINERS.

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

Handling and Storage Precautions:STORE IN COOL, DRY PLACE. KEEP REMOVED FROM ANY HEAT OR OPEN FLAME.

Other Precautions:FLAMMABILITY/EXPLOSION PRECAUTIONS: KEEP AWAY FROM INTENSE HEAT, OPEN FLAMES. PROTECTIVE GLOVES, CLOTHING AND CHEMICAL SPLASH GOGGLES MUST BE WORN DURING ENTIRE CLEAN-UP OPERATIONS TO PREVENT RESPIRATORY OR EYE IRRITATION.

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

Respiratory Protection:WEAR AN APPROPRIATE PROPERLY FITTED RESPIRATOR WHEN CONTAMINANT LEVELS EXCEED THE RECOMMENDED EXPOSURE LIMITS.

Ventilation:DO NOT BREATHE VAPORS, MIST OR SPRAY. USE ONLY WITH PROPER MECHANICAL EXHAUST VENTILATION.

P

Protective Gloves:WEAR PROPER PROTECTIVE GLOVES

Eye Protection:WEAR CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:WEAR PROTECTIVE CLOTHING TO PREVENT EXPOSURE.

Work Hygienic Practices:REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSING. DO NOT INGEST OR SWALLOW THIS MATERIAL.

Supplemental Safety and Health

TRIETHYLENE TETRAMINE MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN; HOWEVER, THIS PRODUCT AS A WHOLE HAS NOT BEEN TESTED FOR DERMAL TOXICITY.

===== Physical

/Chemical Properties =====

HCC:N1

Vapor Density:> THAN AIR

Spec Gravity:0.95-1.05

Appearance and Odor:BLACK LIQUID

Percent Volatiles by Volume:NEGLIG

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS, PEROXIDES, ACIDS, EPOXIDES.

Stability Condition to Avoid:STORAGE IN OPEN CONTAINERS,EXPOSURE TO HEAT/ OPEN FLAME,UNCONTROLLED MIXING WITH (OR EXPOSURE TO)INCOMPATIBLE SUBSTANCES

Hazardous Decompos

ition Products:CARBON MONOXIDE, CARBON DIOXIDE,  
OXIDES OF NITROGEN.

Conditions to Avoid Polymerization:HAZARDOUS POLYMERIZATION WILL NOT  
OCCUR.

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

Waste Disposal Methods:DISPOSED OF IN ACCORDANCE WITH CURRENT LOCAL,  
STATE AND FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department  
of Defense. The United States  
of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.