

EMERSON AND CUMING INC, DIV OF W.R. GRACE -- ECCOSHIELD VY -- 8030-00-181-7225  
===== Product Identification =====

Product ID:ECCOSHIELD VY  
MSDS Date:08/08/1989  
FSC:8030  
NIIN:00-181-7225  
MSDS Number: BTHGL  
=== Responsible Party ===  
Company Name:EMERSON AND CUMING INC, DIV OF W.R. GRACE  
Address:77 DRAGON COURT  
City:WOBURN  
State:MA  
ZIP:01888  
Country:US  
Info Phone Num:617-935-4850/617-828-3300  
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ncy Phone Num:617-935-4850  
Preparer's Name:DAVID HAAS  
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

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

Ingred Name:SILVER COATED BEADS  
Fraction by Wt: >

70%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.01 MG/M3 FOR SILVR  
ACGIH TLV:0.01 MG/M3 FOR SILVR

Ingred Name:SILICONE RESIN  
Fraction by Wt: < 10%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SILVER (SARA III)  
CAS:7440-22-4  
RTECS #:VW3500000  
Fraction by Wt: < 10%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.01 MG/M3  
ACGIH TLV:0.1 MG/M3; 9394  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:XYLENES (O-,M-,P- ISOMERS) (SARA III)  
CAS:1330-20-7  
RTECS #:ZE2100000  
Fraction by Wt: < 10%  
Other REC L  
imits:NONE RECOMMENDED  
OSHA PEL:100 PPM  
ACGIH TLV:100 PPM/150STEL;9394  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:METHYL ETHYL KETONE (2-BUTANONE) (MEK) (SARA III)  
CAS:78-93-3  
RTECS #:EL6475000  
Fraction by Wt: < 5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:200 PPM  
ACGIH TLV:200 PPM/300STEL;9394  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT A S A WHOLE  
Routes of Entry: Inhalati

on:YES Skin:YES Ingestion:NO

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

Health Hazards Acute and Chronic:VAPORS MAY CAUSE IRRITATION TO RESPIRATORY TRACT, AND MAY EXERT NARCOTIC OR ANESTHETIC EFFECTS. MAY CAUSE SEVERE EYE IRRITATION UPON DIRECT CONTACT. MAY CAUSE SKIN IRRITATION. HARMFUL IF SWALLOWED. Prolonged or excessive contact with silver or silver compounds has been known to cause argyria, a blue-gray skin color.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT

CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:RESPIRATORY TRACT IRRITATION, DIZZINESS, SLEEPINESS, INCOORDINATION, UNCONSCIOUSNESS, EYE IRRITATION, SKIN IRRITATION, BLUE-GRAY SKIN DISCOLORATION.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:INHALATION: REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP  
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WARM AND QUIET. GET MEDICAL ATTENTION. SKIN: WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION. EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. INGESTION: DILUTE WITH WATER. GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point:81.0F,27.2C

Lower Limits:1.0 XYLENE

Upper Limits:7.0 XYLENE

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

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:WATER MAY CAUSE FROTHING.FIRE OR EXCESSIVE HEAT MAY CAUSE PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS. FOR LARGE FIRES, FIGHT FIRE FROM SAFE DISTANCE.

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

Spill Release Procedures:TURN

ON VENTILATION EQUIPMENT TO EVACUATE VAPORS FROM AREA. WIPE UP OR ABSORB WITH VERMICULITE OR OTHER ABSORBENT MATERIAL. COLLECT IN SEALED CONTAINERS. SCRUB AREA WITH SOAPY WATER AND RINSE. PREVENT S RINSES FROM ENTERING DRAINS OR OTHER WATERWAYS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:TREAT AS FLAMMABLE MATERIAL. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. STORE IN COOL, DRY PLACE. AVOID STATIC ELCETRICITY BY PROPER GROUNDING.

Other Precautions:EMPTY CONTAINERS CONTAIN FLAMMABLE LIQUID OR VAPOR RESIDUE; DO NOT CUT, WELD, PUNCTURE, HEAAT OR PRESSURIZE CONTAINERS OR PERFORM OTHER OPERATIONS ON OR NEAR CONTAINERS THAT MAY GENERATE HEAT, SPARKS OF FLAME.

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

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION EXOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVE D RESPIRATOR AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH RESPIRATOR SELECTION.

Ventilation:USE MECHANICAL EXHAUST VENTILATION ESPECIALLY IN LOW-LYING AREAS WHERE VAPORS MAY ACCUMULATE.

Protective Gloves:NITRILE OR VITON

Eye Protection:PROPER EYE PROTECTION ESSENTIAL

Other Protective Equipment:PROTECTIVE CLOTHING, EMERGENCY EYEWASH STATION AND SHOWER.

Work Hygienic Practices:WASH WITH SOAP AND WATER AFTER HANDLING PRODUCT AND BEFORE EATING DRINKING OR SMOKI NG.

Supplemental Safety and Health

DO NOT INGEST OR SWALLOW THIS PRODUCT. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.

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

HCC:F3

Boiling Pt:B.P. Text:NOT GIVEN

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

Vapor Pres:1-2

Vapor Density:> 1

Spec Gravity:4.1

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:SLIGHT

Appearance and Odor:SILVER PASTE, SOLVENT ODOR

Percent Volatiles by Volume:< 10 %

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Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

STRONG OXIDIZERS, AMINES, AMIDES, STRONG LEWIS OR MINERAL ACIDS, PEROXIDES, HALOGENATED ORGANIC COMPOUNDS.

Stability Condition to Avoid: STORAGE IN OPEN CONTAINERS, EXPOSURE TO HEAT, OPEN FLAMES, UNCONTROLLED MIXING WITH INCOMPATIBLE SUBSTANCES.

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, SILICON DIOXIDE, HYDROCARBONS

===== Disposal Considerations =====  
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Waste Disposal Methods: PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSAL CONTAINER OR LINER IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

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