

EMERSON AND CUMING -- STYCAST 2651-40 BLACK -- 5970-00-081-4333

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

Product ID:STYCAST 2651-40 BLACK

MSDS Date:12/31/1998

FSC:5970

NIIN:00-081-4333

Kit Part:Y

MSDS Number: CKSWD

=== Responsible Party ===

Company Name:EMERSON AND CUMING

Address:46 MANNING ROAD

City:BILLERICA

State:MA

ZIP:01821

Country:US

Info Phone Num:978-436-9781

Emergency Phone Num:(800)424-9300

Re

sp. Party Other MSDS Num.:150265

Preparer's Name:DAVID HAAS

Chemtec Ind/Phone:(800)424-9300

CAGE:UO004

=== Contractor Identification ===

Company Name:EMERSON AND CUMING

Address:46 MANNING ROAD

Box:City:BILLERICA

State:MA

ZIP:01821

Country:US

Phone:978-436-9781

CAGE:UO004

Company Name:GRACE W R & CO EMERSON & CUMING DEWEY & ALMY CHEM

Address:869 WASHINGTON ST

City:CANTON

State:MA

ZIP:02021-2513

Country:US

Phone:617-935-4850

CAGE:04552

Company Name:KAMPI COMPONENTS CO., INC.

Address:210 RT 13

Box

:721
City:BRISTOL
State:PA
ZIP:19007-3517
Country:US
Phone:215-736-2000
Contract Num:SP0430-00-M-H369
CAGE:7Z016
Company Name:MCKEOWN ROBERT CO. INC.
Address:111 CHAMBERS BROOK RD.
Box:City:SOMERVILLE
State:NJ
ZIP:08876
Country:US
Phone:908-218-9000
Contract Num:SP0430-01-M-H935
CAGE:7B953
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
Contract Num:SP0430-00-M-H518
CAGE:0ZBE8

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

Ingred Name:DGEBA EPOXY RESIN
Minumum % Wt:50.
Maxumum % Wt:60.

Ingred Name:CRYSTALLINE SILICA
Minumum % Wt:20.
Maxumum % Wt:25.
OSHA PEL:0.1 MG/M3
ACGIH TLV:0.1MG/M3

Ingred Name:MICA
CAS:12001-26-2
RTECS #:VV8760000
Minumum % Wt:15.
Maxumum % Wt:20.
OSHA PEL:20 MPPCF
ACGIH TLV:3 MG/M3

Ingred Name:PHENYL GLYCIDYL ETHER
CAS:122-60-1
RTECS #:TZ3675000
Minumum % Wt:2.
Maxumum % Wt:5.
OSHA PEL:60 MG/M3;10 PPM
ACGIH TLV:0.6 MG/M3;0.1 PPM

Ingred Name:CARBON BLACK

CAS:1333-86-4

RTECS #:FF5800000

< Wt:.2

OSHA PEL:3.5 MG/M3

ACGIH TLV:3.5 MG/M3

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

LD50 LC50 Mixture:NO DATA PROVIDED BY MANUFACTURER

Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES

Health Hazards Acute and Chronic:EYE CONTACT: CONTAINS MATERIALS

IRRITATING TO THE EYES. SKIN CONTACT: CONTAINS MATERIALS WHICH CAUSE MODERATE SKIN IRRITATION. PROLONGED OR REPEATED EXPOSURE TO THE LIQUID MAY

EXERT A DEFATTING ACTION ON THE SKIN, POSSIBLY

RESULTING IN DERMATITIS. THIS PRODUCT MAY CAUSE SKIN SENSITIZATION/ ALLERGIC SKIN REACTIONS WHICH MAY BE SEVERE IN CERTAIN INDIVIDUALS.

INHALATION: HEATING CAN GENERATE VAPORS THAT MAY CAUSE RESPIRATORY IRRITATION, NAUSEA AND HEADACHES. INHALATION HAZARD AT ROOM TEMPERATURE IS UNLIKELY, DUE TO THE LOW VOLATILITY OF THIS PRODUCT. INGESTION: HARMFUL IF SWALLOWED.

Explanation of Carcinogenicity:IARC: DGBA EPOXY RESINS ARE NOT

CLASSIFIABLE AS CARCINOGENS. IARC CLASSIFIES FREE CRYSTALLINE SILICA AS A CLASS 2 CARCINOGEN. IARC HAS CLASSIFIED FREE CARBON BLACK AS A CLASS 2B CARCINOGEN. IARC HAS CLASSIFIED PHENYL GLYCIDYL ETHER AS A CLASS 2B CARCINOGEN.

Effects of Overexposure:EYE CONTACT: BLURRED VISION, BURNING SENSATION AND TEARING. SKIN CONTACT: DEFATTING OR DRYING ACTION ON THE SKIN, DERMATITIS, SKIN SENSITIZATION/ALLERGIC SKIN REACTIONS WHICH MAY BE SEVERE IN CERTAIN INDIVIDUALS; SYMPTOM

S INCLUDE RASH, ITCHING,

HIVES, SWELLING OF THE EXTREMITIES. INHALATION: RESPIRATORY IRRITATION, NAUSEA AND HEADACHES.

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

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

First Aid:EYES: FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN.

GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING AND FLUSH AREA OF SKIN WITH PLENTY OF WATER. FOLLOW BY WASHING

WITH SOAP AND

WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. PROPERLY CLEAN CONTAMINATED CLOTHING BEFORE REUSE. INHALATION: MOVE TO FRESH AIR. GIVE OXYGEN IF BREATHING DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION. INGESTION: GIVE PLENTY OF WATER TO DRINK, IF VICTIM IS CONSCIOUS AND ALERT. NEVER GIVE ANYTHING BY MOUTH TO A DROWSY, UNCONSCIOUS, OR CONVULSIVE PERSON. GET MEDICAL ATTENTION.

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

Flash Point: >93.3C, 200.F

Lower Limits: N/E

Upper Limits: N/E

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

Fire Fighting Procedures: FIREFIGHTERS/RESCUE PERSONNEL SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT. COOL EXPOSED CONTAINERS WITH WATER TO PREVENT PRESSURE BUILDUP. IF LARGE QUANTITIES OF MATERIAL ARE INVOLVED, EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

Unusual

Fire/Explosion Hazard: DECOMPOSITION AND COMBUSTION PRODUCTS MAY BE TOXIC. CLOSED CONTAINERS MAY VIOLENTLY RUPTURE UNDER FIRE CONDITIONS. REACTION WITH CURING AGENTS IS EXOTHERMIC; SMOKE OR TOXIC FUMES MAY BE EVOLVED IF HEAT OF REACTION BECOMES EXCESSIVE DUE TO HIGH CURING TEMPERATURES OR CURING OF LARGE MASSES OF MATERIAL.

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

Spill Release Procedures: STOP SOURCE OF SPILL. ACTIVATE EXHAUST VENTILATION IN AREA.

DIKE AREA TO PREVENT RELEASES TO SEWERS, DRAINS, WATERWAYS. COLLECT SPILL FOR SALVAGE/DISPOSAL. APPLY ABSORBENT MATERIAL TO SOAK UP RESIDUE. WASH AREA WITH SOAPY WATER. PREVENT RUNOFF FROM ENTERING WATERWAYS. TRANSFER ABSORBED MATERIAL AND WATER RINSES TO CONTAINERS. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

Neutralizing Agent: NO DATA PROVIDED BY MANUFACTURER

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

Handling and

Storage Precautions:EMPLOYEES MUST BE PROPERLY TRAIN IN SAFE HANDLING OF THIS PRODUCT PRIOR TO USE. STORE IN COOL, DRY LOCATION WITH ADEQUATE VENTILATION. KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE. KEEP AWAY FROM OPE N FLAMES AND HEAT SOURCES. CONSULT THE PRODUCT TECHNICAL BULLETIN FOR DETAILED STORAGE INFORMATION.

Other Precautions:BECAUSE USAGE CONDITIONS VARY DEPENDING ON CUSTOMER APPLICATION, SPECIFIC SAFE HANDLING PROCEDURES SHOULD BE DEVELOPED BY A PERSON KN

OWLEDGEABLE IN THE INTENDED USAGE CONDITIONS, AND EQUIPMENT. EMPLOY EES MUST BE TRAINED IN SAFE HANDLING OF THIS PRODUCT PRIOR TO USE.

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

Respiratory Protection:USE AN APPROPRIATE, PROPERLY FITTED RESPIRATOR IF EXPOSURES EXCEED PEL/TLV VALUES. THE TYPE OF PROTECTION SELECTED (SCBA, AIR-PURIFYING, ETC.) WILL DEPEND UPON THE CONDITIONS OF USE. OBSERVE OSHA REGU LATIONS FOR RESPIRATORY PROTECTION (29 CFR 1910 .134).

Ventilation:PROVIDE EFFECTIVE MECHANICAL EXHAUST VENTILATION TO DRAW VAPORS, MISTS OR FUMES GENERATED DURING PROCESSING AWAY FROM THE WORKER AND PREVENT ROUTINE INHALATION.

Protective Gloves:WEAR APPRIOPRIATE PROTECTIVE GLOVES.

Eye Protection:CHEMICAL SAFETY GLASSES, SPLASH-PROOF CHEMICAL GOGGLES, OR FACE SHIELD.

Other Protective Equipment:IF NECESSARY, A PROPER CHEMICAL-RESISTANT APRON AND ADDITIONAL IMPERVIOUS CLOTHING SHOULD BE USED TO PREVENT SKIN CONTACT AND CONTA MINATION OF CLOTHING. EMERGENCY EYE WASH FACILITIES AND SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS AND FACE THOROUGHLY AFTER HANDLING THIS PRODUCT AND BEFORE EATING, DRINKING OR SMOKING.

Supplemental Safety and Health

THIS IS A THREE PART KIT, SAME NSN. FOR OTHER TWO ITEMS IN THE KIT, SEE MSDS # CKSWV COVERING CATALYST 11, & MSDS SERIAL # CKSWH FOR CATALYST 9. HCC FOR KIT= B2.

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

HCC:V5

NRC/State Lic Num:N

OT RELEVANT

Boiling Pt:B.P. Text:ND

Vapor Pres:AIR

Spec Gravity:1.60

Solubility in Water:INSOLUBLE

Appearance and Odor:BLACK LIQUID, PUNGENT ODOR.

Percent Volatiles by Volume: