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EMERSON AND CUMING -- STYCAST 2850FT BLACK -- 5970-01-061-7555

Product ID:STYCAST 2850FT BLACK MSDS Date:12/31/1998 FSC:5970 NIIN:01-061-7555 Status Code:A Kit Part:Y MSDS Number: CLRGF === 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 Resp. Party Other MSDS Num.: S50005 Preparer's Name: DAVID HAAS Chemtrec 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: KEARFOTT GUIDANCE AND NAVIGATION CORPORATION Address:150 TOTOWA ROAD CN 595 City:WAYNE State:NJ ZIP:07474-0595 Country:US Phone:201-785-6000 Contract Num:SP0413-01-M0622 CAGE:88818

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osition/Information on Ingredients =========

Ingred Name:CARBON BLACK CAS:1333-86-4 RTECS #:FF5800000 &It; Wt:.3 OSHA PEL:3.5 MG/M3 ACGIH TLV:3.5 MG/M3

Ingred Name:N-BUTYL GLYCIDYL ETHER CAS:2426-08-6 RTECS #:TX4200000 Minumum % Wt:1. Maxumum % Wt:2. OSHA PEL:50 PPM ACGIH TLV:25 PPM

Ingred Name:MODIFIERS &It; Wt:2. OSHA PEL:NA

Ingred Name:ALUMINUM OXIDE CAS:1344-28-1 RTECS #:BD1200000 Minumum % Wt:70. Maxumum % Wt:80. OSHA PEL:15 MG/M3 ACGIH TLV:10 MG/M3

Ingred Name:DGEBA EPOXY RESIN M inumum % Wt:20. Maxumum % Wt:30. OSHA PEL:NE ACGIH TLV:NE

Reports of Carcinogenicity:NTP:UNKNOWN IARC:YES Health Hazards Acute and Chronic:EYE CONTACT: IRRITATION. SKIN CONTACT: CAUSES MODERATE IRRITATION. PROLONGED OR REPEATED EXPOSURE TO THE LIQUID MAY EXERT A DEFATTING OR DRYING ACTION, POSSIBLY RESULTING IN DERMATITIS. MAY CAUSE SKIN SENSITIZATION/ALLERGIC SKIN REACTIONS WHICH MAY BE SEVERE IN CERTAIN I NDIVIDUALS. INHALATION: VAPORS MAY CAUSE RESPIRATORY IRRITATION. HAZARD AT ROOM TEMPERATURE IS UNLIKELY. INGESTION: HARMFUL IF SWALLOWED.

- Explanation of Carcinogenicity:IARC CLASSIFIED FREE CARBON BLACK AS CLASS 2B CARCINOGEN, SINCE THERE IS SUFFICIENT EVIDENCE FOR CARCINOGENICITY IN ANIMALS (BASED ON INHALATION STUDIES), BUT EVIDENCE FOR CARCINOGENICITY IN HUMANS I S NONEXISTENT. EXPOSURE TO FREE CARBON BLACK, HOWEVER, IS UNLIKELY, UNLESS CURED PRODUCT IS MACHINE
- D OR GROUND GENERATING AIRBORNE DUST AND INHALATION EXPOSURE.
- Effects of Overexposure:EYE CONTACT: SYMPTOMS MAY INCLUDE IRRITATION, BLURRED VISION, BURNING SENSATION AND TEARING. SKIN CONTACT: SYMPTOMS INCLUDE IRRITATION, DEFATTING, DERMATITIS, RASH, ITCHING, HIVES, SWELLING OF THE EXT REMITIES, SKIN SENSURUZATUIB/ALLERGIC SKIN REACTIONS. INHALATION: RESPIRATORY IRRITATION, NAUSEA, AND HEADACHES.
- Medical Cond Aggravated by Exposure:EXPOSURE MAY AGGRAVATE PREEXISTING SK
- IN AND/OR EYE DISORDERS.

- First Aid:EYE CONTACT: FLUSH WITH WATER FOR 15 MINS, HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. FLUSH EXPOSED SKIN AREAS WITH WATER. FOLLOW BY WASHING WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. INHALATION: MOVE TO FRESH AIR. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING.
- GET

MEDICAL ATTENTION. INGE STION: DILUTE BY GIVING PLENTY OF WATER TO DRINK, IF VICTIM IS CONSCIOUS AND ALERT. NEVER GIVE ANYTHING BY MOUTH TO A DROWSY, UNCONSCIOUS, CONVULSING PERSON. GET MEDICAL ATTENTION.

Flash Point:>93.3C, 200.F

Extinguishing Media:USE CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER FOG. Fire Fighting Procedures:FIREFIGHTERS/RESCUE PERSONNEL SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BRE

ATHING APPARATUS AND FULL

PROTECTIVE EQUIPMENT. COOL EXPOSED CONTAINERS WITH WATER TO PREVENT PRESSURE BUILDUP. IF LARGE Q UANTITIES 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 HEA T OF REACTION BECOMES EXCESSIVE

DUE TO HIGH CURING TEMPERATURES OR CURING OF LARGE MASSES OF MATERIAL.

Spill Release Procedures:SPILL RESPONSE OPERATION MUST BE CONDUCTED IN ACCORDANCE WITH PROVISIONS OF OSHA 29 CFR 1910.120. SMALL SPILL: VENTILATE SPILL AREA. WIPE UP OR ABSORB SPILLED MATERIAL WITH VERMICULITE OR OTHER SIMILA R MATERIAL. WASH AREA WITH SOAPY WATER TO REMOVE RESIDUE. COLLECT ABSORBED MATERIAL AND WATER RINSES IN APPR

OPRIATE CONTAINER FOR DISPOSAL. LARGE SPILLS: STOP SPILL. VENTILATE (CONTD.SEE "OTHER INFO")

Handling and Storage Precautions:BECAUSE USAGE CONDITIONS WILL VARY DEPENDING ON CUSTOMER APPLICATION, SPECIFIC SAFE HANDLING PROCEDURES SHOULD BE DEVELOPED BY A PERSON KNOWLEDGABLE IN THE INTENDED USAGE CONDITIONS AND EQUIPMENT. EMP LOYEES MUST BE PROPERLY TRAINED IN SAFE HANDLING OF THIS PRODUCT PRIOR TO USE. Othe

r Precautions:STORAGE: STORE IN A COOL, DRY LOCATION WITH ADEQUATE VENTILATION. KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE. KEEP AWAY FROM OPEN FLAMES AND HEAT SOURCES. CONSULT THE PRODUCT TECHNICAL BULLETIN FOR DETAILED STORAGE INFORMATION.

======= 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 REPSIRATORY PROTECTION (29 CFR** 1910.134). Ventilation: PROVIDE EFFECTIVE MECHANICAL EXHAUST VENTILATION SUFFICIENT TO MAINTAIN AIRBORNE LEVELS BELOW THEIR PEL/TLV VALUES. Protective Gloves:WEAR APPROPRIATE PROTECTIVE GLOVES. Eye Protection: CHEMICAL SAFETY GLASSES, SPLASH-PROOF CHEMICAL GOGGLES, OR FACE SHIELD. Other Protective Equipment: WEAR A PROPER CHEMICAL-RESISTANT APRON AND ADDITIONAL IMPERVIOUS CLOTH ING TO PREVENT SKIN CONTACT AND CONTAMINATION OF CLOTHING. EMERGENCY EYE WASH FACILITIES AND SAFETY SHOWER SHOULD BE AVAILABLE. Work Hygienic Practices: NORMAL WORK CLOTHES SHOULD BE WASHED BEFORE REUSE. WASH HANDS AND FACE THOROUGHLY AFTER HANDLING THIS PRODUCT AND BEFORE EATING, DRINKING OR SMOKING. Supplemental Safety and Health THIS ENTRY DESCRIBES ONE PART OF A TWO PART KIT, SERIAL # "CLRGF" STYCAST 2850FT BLACK. SEE THIS SAME NSN SERIAL # "CLRFS", CATALYST-11, FOR DE SCRIPTION OF SECOND PART OF KIT.

HCC:T4 Boiling Pt:B.P. Text:N/D Vapor Pres:AIR Spec Gravity:2.35 - 2.45 (WATER=1) Solubility in Water:INSOLUBLE Appearance and Odor:BLACK LIQUID, MILD ODOR. Percent Volatiles by Volume: