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EMERSON & CUMING SPECIALTY POLYMERS DIV OF NATIONAL STARCH -- ECCOCOAT CC-2 -- 8010-01-023-0342

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

Product ID: ECCOCOAT CC-2

MSDS Date:12/31/1998

FSC:8010

NIIN:01-023-0342 Status Code:A

MSDS Number: CLJBV === Responsible Party ===

Company Name: EMERSON & CUMING SPECIALTY POLYMERS DIV OF NATIONAL STARCH

Address:46 MANNING ROAD

City:BILLERICA

State:MA ZIP:01821 Country :US

Info Phone Num:781-828-3300 OR 978-436-9781

Emergency Phone Num:(800)424-9300 Preparer's Name:HENRY SIMMONS Chemtrec Ind/Phone:(800)424-9300

CAGE:TO215

=== Contractor Identification ===

Company Name: EMERSON & CUMING SPECIALTY POLYMERS DIV OF NATIONAL STARCH

Address:46 MANNING ROAD

Box:City:BILLERICA

State:MA ZIP:01821 Country:US

Phone:781-828-3300 OR 978-436-9781

CAGE:TO215

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

Ingred Name:SILVER Minumum % Wt:45. Maxumum % Wt :55. OSHA PEL:0.01 MG/M3 ACGIH TLV:0.1 MG/M3

Ingred Name: BUTYL ACETATE

Minumum % Wt:25. Maxumum % Wt:35. OSHA PEL:150 PPM ACGIH TLV:20 PPM

Ingred Name:TOLUENE

Minumum % Wt:5. Maxumum % Wt:15. OSHA PEL:100 PPM ACGIH TLV:50 PPM

Ingred Name: NON HAZARDOUS RESINS

Minumum % Wt:5. Maxumum % Wt:10.

Ingred Name:ETHANOL

Minumum % Wt:3. Maxumum % Wt:7. OSHA PEL:1000 PPM ACGIH TLV:1000 PPM

Ingred Name: ISOPROPANOL

Minumum % Wt:1. Maxumum % Wt:5. OSHA PEL:400 PPM ACGIH TLV:400 PPM

Ingred Name: METHYL ETH

YL KETONE Minumum % Wt:1. Maxumum % Wt:2. OSHA PEL:200 PPM ACGIH TLV:200 PPM

Ingred Name: MODIFIERS

< Wt:5.

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:EXCESSIVE OR PROLONGED CONTACT WITH
SILVER OR SILVER COMPOUNDS HAS BEEN KNOWN TO CAUSE ARGYRIA, A BLUE
GRAY DISCOLORATION OF THE SKIN. OVEREXPOSURE OF TOLUENE HAS
PRODUCED SEVERE BUT REVERSIBLE LIVER AND KIDNEY INJU

RY IN HUMANS.

REPEATED AND PROLONGED OVEREXPOSURE HAS BEEN ASSOCIATED WITH CENTRAL NERVOUS SYSTEM INJURY AND CARDIAC SENSITIZATION. MINOR ENBRYOTOXIC/FETOTOXIC EFFECTS HAVE BEEN OBSERVE D IN LABORATORY RATS EXPOSED VIA INHALATION TO OVER 1000 PPM OF MEK FOR MOST OF THE GESTATION PERIOD (5 TIMES THE OSHA PEL/TWA). CHRONIC OVEREXPOSURE TO ETHANOL HAS CAUSED LIVER AND SYSTEM DAMAGE IN H UMANS.

Effects of Overexposure:EYE CONTACT: CONTAINS MATERIALS WHICH MAY CAUSE SEVERE

BUT REVERSIBLE EYE IRRITATION. SYMPTOMS MAY INCLUDE BURNING SENSATION, BLURRED VISION, AND TEARING. SKIN CONTACT: CONTAIN MATERIALS WHICH CAUSES MODERATE SKIN IRRITATION. PROLONGED OR REPEATED EXPOSURE TO THE LIQUID MAY EXERT A DEFATTING OR DRYING ACTION ON THE SKIN, POSSIBLY RESULTING IN DERMATITIS. TOLUENE MAY ABSORBED THROUGH THE SKIN. IN HALATION: HIGH VAPOR CONCENTRATIONS MAY CAUSE RESPIRATORY IRRITATION, HEADACHES, NAUSEA, DIZZINESS; MAY CAUSE ANESTHETIC EFFO

RTS OR OTHER TEMPORARY CENTRAL NERVOUS SYSTEM EFFECTS. SEVERITY OF EFFECTS WILL BE DEPENDENT.

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

	Time 4 Airl Management	
=======================================	First Aid Measures	

First Aid:EYE CONTACT: IMMEDIATELY FLUSH EYES THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET IMMEDIATE MEDICAL ATTENTION. SKIN CONTACT: REMOVE ANY CONTAMINATED CLOTHING AND

FLUSH THE AREA OF THE SKIN THOROUGHLY WITH PLENTY OF WATER. FOLLOW BY WASHING WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. DO NOT REUSE CONTAMINATED CLOTHING UNTIL PROPERLY CLEANED. C ONTAMINATED LEATHER ARTICLES, INCLUDING SHOES, CANNOT BE DECONTAMINATED AND SHOULD BE DESTROYED. INHALATION: REMOVE VICTIM TO FRESH AIR. PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESP IRATION IF NOT BREATHING.

=====	 Fire	Fighting	Mea
sures	 ====	=	

Flash Point:=-9.4C, 15.F 15-72F

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

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 Q UANTITIES OF MATERIAL ARE INVOLVED. EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

Unusual Fire/Explosion Hazard: DECOMPOSITION AND C

OMBUSTION PRODUCTS MAY BE TOXIC. CLOSED CONTAINERS MAY VIOLENTLY RUPTURE UNDER FIRE

CONDITIONS. VAPORS FROM THIS PRODUCT ARE HEAVIER THAN AIR, AND MAY TRAVEL A CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK.

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

Spill Release Procedures:SMALL SPILLS: ACTIVATE ALL EXPLOSION-PROOF EXHAUST VENTILATION IN THE IMMEDIATE AREA. EXTINGUISH OPEN FLAMES AND ELIMINATE ALL OTHER SOURCES OF IGNITION. WIPE UP. OR ABSORB

WITH VERMICULITE OR OTHER S IMILAR MATERIAL. WASH AREA WITH SOAPY WATER TO REMOVE RESIDUE. COLLECT ABSORBED MATERIAL AND WATER RINSES IN APPROPRIATE CHEMICAL WASTE CONTAINERS.

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

Handling and Storage Precautions:STORE IN A COOL, DRY LOCATION WITH ADEQUATE VENTILATION, KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE. DO NOT STORE NEAR HEAT, SPARKS, OR OPEN FLAME. TO PREVENT FIRE OR EXPLOSION RI

SK FROM STATIC ELE CTRICITY ACCUMULATION AND DISCHARGE, EFFECTIVELY GROUND STORAGE AND TRANSFERS CONTAINERS.

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

Respiratory Protection:USE AN APPROPRIATE PROPERLY FITTED RESPIRATOR IF EXPOSURES EXCEEDS PEL/TLV VALUES. THE TYPE OF RESPIRATORY PROTECTION SELECTED WILL DEPEND UPON THE CONDITIONS OF USE. OBSERVE OSHA REGULATIONS FOR RESP IRATORY PROTECTION (29 CFR 1910.134)

Ventilation:PROVIDE EFFECTIVE EXPLOSION-PROO

F MECHANICAL EXHAUST

VENTILATION TO DRAW VAPORS, MISTS, OR FUMES GENERATED.

Protective Gloves: WEAR APPROPRIATE PROTECTIVE GLOVES.

Eve Protection: SPLASH-PROOF CHEMICAL OR FACE SHIELD.

Other Protective Equipment: A PROPER CHEMICAL RESISTANT APRON AND ADDITIONAL IMPERVIOUS CLOTHING TO PREVENT SKIN CONTACT.

Work Hygienic Practices:WASH HANDS AND FACE THOROUGHLY AFTER HANDLING THIS PRODUCT AND BEFORE EATING, DRINKING OR SMOKING. EMERGENCY EYE WASH FACILITIES AND SAFETY SHOWER MUST BE A

VAILABLE. Supplemental Safety and Health ========= Physical/Chemical Properties =========== Boiling Pt:>93.3C, 200.F Vapor Pres:10 MAX Vapor Density:> AIR Spec Gravity:1.7-1.9 Solubility in Water: INSOLUBLE Appearance and Odor:SILVER LIQUID, SOLVENT ODOR Percent Volatiles by Volume:47 MAX ======== Stability and Reactivity Data =========== Stability Indicator/Materials to Avoid:YES INCOMPATIBLE WITH STRONG OXIDIZERS, ACIDS, BASES. Stability Condition to Avoi d:AVOID STORAGE IN OPEN CONTAINERS, EXPOSURE TO OPEN FLAME OR UNCONTROLLED EXPOSURE TO HEAT, UNCONTROLLED MIXING WITH CURING AGENTS OF EXPOSURES TO INCOMPATIBLE SUBSTANCES. Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES, SILVER COMMANDS, ACIDS AND OTHER ORGANIC SUBSTANCES MAY BE FORMED DURING COMBUSTION. THE CHEMICAL NATURE AND QUANTITY OF DECOMPOSITION BY-PRODUCTS WILL VARY. ========== Regulatory Information =========================== S ARA Title III Information: SARA STATUS: THE COMPONENTS LISTED IN SECTION 2 WHICH ARE SUBSTANCES REGULATED BY THE SARA SECTION 313 AMENDMENTS TO RCRA ARE AS FOLLOWS: SILVER (7440-22-4) TOLUENE (108-88-3) METHYL ETHYL KETONE (78 -93-3) State Regulatory Information: CALIFORNIA PROPOSITION 65 INFORMATION: WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR THE REPRODUCTIVE HARM: TOLUENE (108-88-3).

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vided with this information by the compiling agencies):

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