Product ID:ECCOFLOAT EF-38A PART A
MSDS Date:01/02/1991
FSC:8040
NIIN:00N027865
Kit Part:Y
MSDS Number: BPYYT

=== Responsible Party ===
Company Name:GRACE W R & CO EMERSON & CUMING DEWEY & ALMY CHEM
Address:869 WASHINGTON ST
City:CANTON
State:MA
ZIP:02021-2513
Country:US
Info Phone Num:617-938-8630 OR 617-828-3300
Emergency Phone Num:617-935-4850
CAGE:04552

=== Contractor Identification ===
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

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

Ingred Name:PROPANE, 1-CHLORO-2, 3-EPOXY-; (EPICHLOROHYDRIN). FL PT: 105F
CAS:106-89-8
RTECS #:TX4900000
Fraction by Wt: <5% PPM
OSHA PEL:S, 5 PPM
ACGIH TLV:S, 2 PPM; 9293
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:ACRYLIC ACID, 2-ETHYLHEXYL ESTER; (2-ETHYLHEXYL ACRYLATE).
  FL PT: 180F. PERCENTAGE (WT): 10-25 PPM
CAS:103-11-7
RTECS #:AT0855000
Fraction by Wt: SEE ING

Ingred Name:TOLUENE. FL PT: 40F. PERCENTAGE (WT): 10-40 PPM
CAS:108-88-3
RTECS #:XS5250000
Fraction by Wt: SEE ING
OSHA PEL:200 PPM/150 STEL
ACGIH TLV:50 PPM; 9293
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:HYDROTREATED HEAVY NAPHTHA; (PETROLEUM SOLVENT). FL PT: 85F. PERCENTAGE (WT): 350-500 PPM
CAS: 64742-48-9
Fraction by Wt: SEE ING

Ingred Name: SUPP DATA: AND CULTURED HUMAN CELLS. AN ANALYSIS OF ALL
EVIDENCE TO DATE (THRU 1979) IN AN ONGOING EPIDEMIOLOGICAL (ING 6)
RTECS #: 9999999ZZ

Ingred Name: ING 5: STUDY OF ECH WORKERS HAS BEEN RPTD TO SHOW "WEAK"
EVIDENCE THAT EXPOS TO ECH POSES A CANCER RISK TO HUMANS.
RTECS #: 9999999ZZ

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

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation: YES  Skin: YES  Ingestion: YES
Reports of Carcinogenicity: NTP: NO  IARC: NO  OSHA: NO
Health Hazards Acute and Chronic: INHAL: VAPS MAY CAUSE IRRIT OF RESP
TRACT. PRLNGD EXPOS MAY RESULT IN SENSIT. CERTAIN INDIV MAY DEVELOP
SKIN IRRIT UPON DIRECT CONT. EYE: IRRIT UPON DIRECT CONT. SKIN:
IRRIT UPON DIRECT CONT. PRLNGD E XPOS MAY RESULT IN SKIN SENSIT.
INGEST: HARMFUL IF SWALLOWED. 2-ETHYLHEXYL ACRYLATE HAS PRODUCED
SKIN (EFTS OF OVEREXP)
Explanation of Carcinogenicity: NOT RELEVANT
Effects of Overexposure: HLTH HAZ: CANCER IN MICE. GOOD VENT & STANDARD
INDUSTRIAL HYGIENE PRACTICES SHOULD BE FOLLOWED WHEN HNDLG MATLS
CONTAINING 2-ETHYLHEXYL ACRYLATE. (CHRONIC) IT IS VERY UNLIKELY
THAT NORMAL WORK OPER W/ PROD COULD PRODUCE ATMOSPHERIC
EPICHLOROHYDRIN (ECH) CONC APPROACHING THE OSHA LIMIT.
NEVERTHELESS, YOU (SUPP DATA)
Medical Cond Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

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

First Aid: INHAL: REMOVE TO FRESH AIR. EYE: IMMEDIATELY FLUSH WITH WATER
FOR AT LEAST 15 MINUTES; GET MEDICAL ATTN. SKIN: REMOVE CONTAM
CLOTHING. WASH AFFECTED AREA WITH SOAP AND WATER. INGEST: DILUTE
WITH LARGE QTYS OF WATER; INDUCE VOMITING ONLY IF THE VICTIM IS
CONSCIOUS AND ALERT. GET IMMEDIATE MEDICAL ATTN. GET MEDICAL ATTN
IF SYMPTOMS PERSIST.

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

Flash Point Method: PMCC
Flash Point: 250F, 121C
Extinguishing Media: CO2, DRY CHEMICAL, FOAM.
Fire Fighting Procedures: WEAR NIOSH/MSHA APPROVED SCBA & FULL
PROTECTIVE EQUIPMENT.
Unusual Fire/Explosion Hazard: TOXIC FUMES MAY BE EVOLVED UPON EXPOSURE
TO HEAT OR OPEN FLAME.

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

Spill Release Procedures: SM SPILLS: WIPE UP/ABSORB W/VERMICULITE/OTHER
ABSORB MATL. IF ACETONE/OTHER SIMILAR SOLV ARE USED, BE SURE TO USE
ADEC VENT & FIRE SFTY PREC. COLLECT WASTE IN SEALED CNTNRS. WASH
AREA W/ SOAPY H2O & RI NSE. FOR FURTHER INFO REFER TO ORIG MSDS.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions: STORE IN COOL, DRY PLACE; KEEP REMOVED
FROM HEAT OR OPEN FLAME. KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP AWAY FROM INTENSE HEAT, OPEN FLAMES.

Other Precautions: AVOID BREATHING FUMES OR VAPORS. USE ONLY WITH ADEQUATE VENTILATION.

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

Respiratory Protection: NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN.
Ventilation: FLEXIBLE DUCTWORK SHOULD EXTEND TO AREAS OF HIGH CONC TO PVNT LOCAL BUILD-UP OF VAP. PROVIDE SPECIAL VENT AT ELEV TEMPS.
Protective Gloves: PROTECTIVE IMPERVIOUS GLOVES.
Eye Protection: CHEMICAL WORKERS GOGGLES.
Other Protective Equipment: PROTECTIVE CLOTHING IF DIRECT CONTACT IS LIKELY.

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health
MATL TO AVOID: ALCOHOL, MERCAPTANS, ANHYDRIDES. IN THE RXN W/MANY CURING AGENTS, CONSIDERABLE HEAT MAY BE EVOLVED, POSS LEADING TO THE EVOLUTION OF SMOKE AND/OR TOXIC FUMES. EFTS OF OVEREXP: SHOULD BE AWARE THAT ECH HAS BEEN REPORTED TO PRODUCE CANCER IN LAB ANIMALS & TO PRODUCE MUTAGENIC CHANGES IN BACTERIA (ING 5)

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

HCC:N1
Vapor Pres:<1 @ 25C
Vapor Density: HVR/AIR
Spec Gravity: 0.53-0.59
Solubility in Water: NEGLIGIBLE
Appearance and Odor: OFF-WHITE, THIXOTROPIC LIQUID; LITTLE OR NO ODOR.
Percent Volatiles by Volume:<1(WT)

-----------------  Stability and Reactivity Data  -----------------

Stability Indicator/Materials to Avoid: YES
STRONG OXIDIZERS, AMINES, AMIDES, STRONG LEWIS ACIDS, STRONG MINERAL ACIDS, THIOSULFATES, CABOXYLIC ACIDS, (SUPP DATA)
Stability Condition to Avoid: EXPOSURE TO HEAT AND/OR OPEN FLAME, TO INCOMPATIBLE SUBSTANCES, STORAGE IN OPEN CONTAINERS.
Hazardous Decomposition Products: CO, CO2, HYDROCARBONS.

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

Waste Disposal Methods: SPILLED MATL AND WATER RINSES ARE CLASSIFIED AS CHEM WASTE & THEY MUST BE DISPOSED OF EITHER BY BURIAL IN A CHEMICAL LANDFILL OR BY CONTROLLED BURNING AT A LICENSED CHEM WASTE FACILITY IN ACCORDANCE W ITH FED, ST & LOCAL REGS.

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