

EMERSON AND CUMING,INC, A GRACE CO -- ECCOFOAM FPH -- 5970-00-768-0527

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

Product ID:ECCOFOAM FPH

MSDS Date:01/30/1989

FSC:5970

NIIN:00-768-0527

Kit Part:Y

MSDS Number: BVFXT

=== Responsible Party ===

Company Name:EMERSON AND CUMING,INC, A GRACE CO

Address:77 DRAGON COURT

City:WOBURN

State:MA

ZIP:01888

Country:US

Info Phone Num:617-828-3300

Emergency Phone Num:617-9

35-4850, 417-938-8630

Preparer's Name:DAVID HAAS

CAGE:OB562

=== Contractor Identification ===

Company Name:DEANCO INC

Address:7933 QUEENAIR DR

Box:City:GAITHERSBURG

State:MD

ZIP:20879-4137

Country:US

Phone:301-948-5444

CAGE:9K946

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

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

Ingred Name:TOLUENE-2,4-DIISOCYANATE (TDI) (SARA III)

CAS:584-84-9

RTECS #:CZ6300000

Fraction by Wt: 25-35%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.005 PPM/0.02 STEL

ACGIH TLV:0.005 PPM 9394

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

Ingred Name:TOLUENE-DIISOCYANATE-BASED PREPOLYMER

Fraction by Wt: 65-75%

Other REC Limits:NONE RECOMMENDED

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

L

D50 LC50 Mixture:ORAL LD50 (RAT) IS UNKNOWN.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

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

Health Hazards Acute and Chronic:ACUTE: EYES: SEVERE IRRITATION ON CONTACT. SKIN: IRRITATION. SKIN SENSITIZATION ON PROLONGED EXPOSURE. INHALATION: IRRITATION, NAUSEA. PROLONGED BREATHING MAY CAUSE ASTHMA, PULMONARY SENSITIZATION. INGESTION: HARMFUL IF SWALLOWED. CHRONIC:TOLUENE DIISOCYANATE MAY CAUSE DECREASED PULMONAR

Y FUNCTION AND FIBROSIS.

Explanation of Carcinogenicity:TOLUENE DIISOCYANATE IS LISTED BY NTP AS REASONABLY ANTICIPATED TO BE CARCINOGEN AND IARC AS POSSIBLY CACINOGENIC.

Effects of Overexposure:EYES: IRRITATION. SKIN: IRRITATION, SENSITIZATION. INHALATION: IRRITATION, NAUSEA, ASTHMA, PULMONARY SENSITIZATION, DECREASED PULMONARY FUNCTION, FIBROSIS. INGESTION: HARMFUL IF SWALLOWED.

Medical Cond Aggravated by Exposure:PREEXISTING RESPIRATORY AND SKIN DISORDERS MAY BE AGGRAV

ATED BY EXPOSURE TO THIS PRODUCT.

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

First Aid:EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL  
ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH THE AFFECTED  
AREA WITH WATER. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING,  
GIVE CPR. IF BREATHING DIFFICULT, GIVE OXYGEN. GET MEDICAL  
ATTENTION. INGESTION: DILUTE WITH LARGE AMOUNTS OF WATER. INDUCE  
VOMITING ONLY IF VICTIM IS CONSCIOUS AND ALERT. GET MEDICAL  
ATTENTION.

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

Flash Point Method:PMCC  
Flash Point:>270F,>132C  
Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL, FOAM.  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND  
FULL PROTECTIVE GEAR.  
Unusual Fire/Explosion Hazard:TOXIC VAPORS MAY BE EVOLVED UPON EXPOSURE  
TO HEAT OR OPEN FLAME.

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

Spill Release Procedures:VENTILATE AREA. CONTAIN SPILL TO PREVENT  
RUNOFF INTO DRAINS, SEWERS, WATERWAYS. PUMP FREE LIQUID TO SALVAGE  
TANK. ABSORB RESIDUE WITH ABSORBENT. SHOVEL WASTE INTO CONTAINER.  
SCRUB AREA WITH NEUTRALIZER SOLUTION. COLLECT RINSES IN APPROVED  
CONTAINER.  
Neutralizing Agent:AQUEOUS SOLUTION OF 1% AMMONIA AND 5% ISOPROPANOL.

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

Handling and Storage Precautions:STORE IN CLOSED CONTAINER IN COOL, DRY  
AREA AWAY FROM HEAT, OPEN FLAME. DO NOT EXPOSE PRODUCT TO MOISTURE;  
MOISTURE MAKES PRODUCT UNUSABLE.  
Other Precautions:USE ONLY WITH ADEQUATE VENTILATION. AVOID SKIN AND  
EYE CONTACT. WEAR GLOVES AND PROTECTIVE CLOTHING TO PREVENT  
EXPOSURE. AVOID BREATHING VAPORS.

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

Respiratory Protection:NIOSH-APPROVED SELF-CONTAINED BREATHING  
APPARATUS SHOULD BE USED IN ABSENCE OF MECHANICAL VENTILATION WHEN  
WORKING WITH LARGE QUANTITIES OF MATERIAL.  
Ventilation

tion:USE ADEQUATE MECHANICAL VENTILATION. FLEXIBLE DUCTWORK  
SHOULD EXTEND TO AREAS OF HIGH CONCENTRATIONS TO PREVENT BUILDUP.  
Protective Gloves:WEAR GLOVES TO MINIMIZE EXPOSURE.  
Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES.  
Other Protective Equipment:WEAR PROTECTIVE CLOTHING TO MINIMIZE SKIN  
EXPOSURE.  
Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE EATING,  
DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.  
Supplemental Safety and Health  
NONE

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

HCC:N1  
Boiling Pt:B.P. Text:484F,251C  
Vapor Pres:1 (AIR=1)  
Spec Gravity:1.30  
Solubility in Water:REACTS WITH WATER  
Appearance and Odor:RED LIQUID.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
STRONG OXIDIZERS, WATER, ALCOHOLS, POWDERED METALS, OR METAL OXIDES.  
Stability Condition to Avoid:AVOID STORAGE IN OPEN CONTAINER, EXPOSURE  
TO HEAT, OPEN FLAME, MIXING OR EXPOSURE WITH INCOMPATIBLE  
SUBSTANCES.  
Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,  
OXIDES IF NITROGEN, TRACES OF CYANIDES.  
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:DISPOSE OF SPILLED MATERIAL AND WATER RINSES AS  
CHEMICAL WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL  
REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):  
This i

nformation is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.