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E F HOUGHTON & CO -- HOUGHTO-SAFE 273 -- 9150-01-080-5961

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

Product ID:HOUGHTO-SAFE 273

MSDS Date: 10/06/1995

FSC:9150

NIIN:01-080-5961

MSDS Number: BTQZQ === Responsible Party ===

Company Name: E F HOUGHTON & CO Address: MADISON AND VAN BUREN AVE

Box:930

City: VALLEY FORGE

State:PA ZIP:19482 Country:US

Info Phone Num:215-666-4105

Emergency Phone Num:(800)424-9300

Pre

parer's Name:ROBERT E. WILLIAMS Chemtrec Ind/Phone:(800)424-9300

CAGE:73227

=== Contractor Identification ===

Company Name: HOUGHTON INTERNATIONAL INC

Box:930

City: VALLEY FORGE

State:PA ZIP:19482 Country:US

Phone:610-666-4105

CAGE:73227

Company Name: HOUGHTON INTERNATIONAL INC

Address: MADISON AND VAN BUREN AVES

Box:930

City: VALLEY FORGE

State:PA

ZIP:19482-0930

Country:US

Phone:610-666-4105

CAGE:73277

Company Name: OCTAGON PROCESS INC.

Address:596 RIVER ROAD Box:City:EDGEWATER

State:NJ ZIP:07020

Cou

ntry:US

Phone:201-945-9400

CAGE:82925

Company Name:SDB CONSULTANTS LTD Address:401 WHITNEY AVE SUITE 120

Box:City:GRETNA

State:LA ZIP:70056 Country:US

Phone:504-366-9105

Contract Num:SP0450-01-M-C574

CAGE:0PGK2

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

Ingred Name: ETHYLENE GLYCOL

CAS:107-21-1

RTECS #:KW2975000 Minumum % Wt:30. Maxumum % Wt:60.

Other REC Limits: C 100 MG/M3 (MFR)

OSHA PEL:NOT PROVIDED

ACGIH STEL:C127 MG/M3;C50 PPM

EPA Rpt Qty:1 LB DOT Rpt Qty:1 LB

ln

gred Name:2-DIETHYLAMINOETHANOL

CAS:100-37-8

RTECS #:KK5075000

< Wt:1.

Other REC Limits:NOT PROVIDED OSHA PEL:50 MG/M3;10 PPM ACGIH TLV:9.6 MG/M3;2 PPM

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

LD50 LC50 Mixture:NOT PROVIDED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE EFFECTS: INHALATION: AVOID

BREATHING PRODUCT MISTS. BREATHING MISTS IN EXCESS OF THE STEL

MAY

CAUSE IRRITATION OF UPPER RESPIRATORY TRACT. PERSONS WITH CHRONIC RESPIRATORY DISEASE MAY SHOW INCRE ASED SYMPTOMS DUE TO IRRITATION. SKIN: MILD IRRITANT. EYES: MODERATE IRRITANT. INGESTION: AVOID INGESTION, SWALLOWING LARGE AMOUNTS OF ETHYLENE GLYCOL HAS CAUSED BIRTH DEFECTS IN LABORATORY ANIMALS. C HRONIC (RECURRENT) EFFECTS: UNKNOWN FOR THIS PRODUCT.

Explanation of Carcinogenicity: NOT CARCINOGENIC.

Effects of Overexposure: NOT PROVIDED

Medical Cond Aggravated by Exp

osure:PERSONS WITH CHRONIC RESPIRATORY

DISEASE MAY SHOW INCREASED SYMPTOMS DUE TO IRRITATION. First Aid:INHALATION: REMOVE TO SOURCE OF FRESH AIR. SKIN: WASH WITH SOAP AND WATER. EYES: FLUSH WITH WATER 15 MINUTES: CONSULT PHYSICIAN. INGESTION: INDUCE VOMITING; CONSULT PHYSICIAN. ============= Fire Fighting Measures ======================== Extinguishing Media: PRODUCT IS A FIRE RESISTANT FLUID; NOT FLAMMAB LE AS USED. Fire Fighting Procedures: IF WATER IS REMOVED, PRODUCT WILL BURN. USE WATER, CARBON DIOXIDE, FOAM, DRY CHEMICAL. Unusual Fire/Explosion Hazard:NONE. ======== Accidental Release Measures =========== Spill Release Procedures: MATERIAL IS NOT CONSIDERED A POLLUTANT IF

EFFECTIVE WASTE DISPOSAL METHODS ARE UTILIZED. FLUSH AREA WITH WATER FOR SMALL QUANTITIES: FOR LARGE QUANTITIES, DIKE TO CONTAIN AND EITHER REUSE OR DISPOSE OF DEPENDING ON CONDITION S.

Neutralizing Agent: NOT RELEVANT

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

Handling and Storage Precautions: AVOID CONTACT WITH STRONG OXIDIZERS. AVOID INGESTION.

Other Precautions: WASH THOROUGHLY AFTER HANDLING.

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

Respiratory Protection: REQUIRED ONLY IF TLV IS EXCEEDED. Ventilation: EXHAUST TYPE IF MISTING: OTHERWISE GENERAL TYPE IS SATISFACTORY.

Protective Gloves: RUBBER FOR PROLONGED CONTACT

ABBREVIATION: N/A=NOT APPLICABLE OR NOT AVAILABLE. N/K=UNKNOWN. N/P=NOT PROVIDED. N/R=NOT RELEVANT. N/D=NOT DETERMINED. N/E=NOT ESTABLISHED.
======== Physical/Chemical Properties =========
HCC:V6 NRC/State Lic Num:NOT RELEVANT Boiling Pt:=101.7C, 215.F Melt/Freeze Pt:M. P/F.P Text:NOT PROVIDED Decomp Temp:Decomp Text:NOT PROVIDED Vapor Pres:AS WATER Vapor Density:AS WATER Spec Gravity:1.08 pH:9.5 Viscosity:NOT PROVIDED Evaporation Rate & amp; Reference:AS WATER Solubility in Water:COMPLETE Appearance and Odor:RED FLUID, SLIGHT AMMONIACAL ODOR. Percent Volatiles by Volume:30-60 Corrosion Rate:NOT PROVIDED
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES STRONG OXIDIZERS. Stability Condition to Avoid: NOT PROVIDED Hazardous Decomposition Products:THERMAL: OXIDES OF CARBON AND NITROGEN.
======================================
Toxicological Information:NOT PROVIDED
========== Ecological Information ============
Ecological:NOT PROVIDED
======= Disposal Considerations ==========
Waste Disposal Methods:PROCESS THROUGH SEWAGE OR WASTE DISPOSAL SYSTEM WHICH PROVIDES BIOLOGICAL OXIDATION. (IF WATER CONTENT IS BELO

Eye Protection: SAFETY GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

IF SKIN IS SENSITIVE.

Other Protective Equipment:NOT REQUIRED.
Work Hygienic Practices:NOT PROVIDED
Supplemental Safety and Health

W 35%, MATERIAL MAY BE BURNED WITH FUEL OILS.)
========= MSDS Transport Information ==========
Transport Information:NOT PROVIDED
========== Regulatory Information ============
SARA Title III Information:THIS PRODUCT CONTAINS NO TOXIC CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1985 AND 40 CFR PART 372 OTHER THAN A M AXIMUM OF: 35% ETHYLENE GLYCOL (CAS 107-21-1) Federal Regulatory Information:NOT PROVIDED State Regulatory Information:NONE

============= Other Information =============================

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