

HOUGHTON INTL INC -- HOUGHTO-SAFE 273 -- 9150-01-080-5962

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

Product ID:HOUGHTO-SAFE 273

MSDS Date:10/06/1995

FSC:9150

NIIN:01-080-5962

MSDS Number: BPMJZ

=== Responsible Party ===

Company Name:HOUGHTON INTL INC

Address:MADISON AND VAN BUREN AVE

Box:930

City:VALLEY FORGE

State:PA

ZIP:19482-0930

Country:US

Info Phone Num:215-666-4000

Emergency Phone Num:215-666-4105

Resp. Party Other MSDS Num.:012713

Preparer's Name:ROBERT E. WILLIAMS

Chemtrec Ind/Phone:(800)424-9300

CAGE:73277

=== Contractor Identification ===

Company Name:HOUGHTON E F AND CO

Address:3431 CARRIAGE DR

Box:25930

City:SANTA ANA

State:CA

ZIP:92799

Country:US

Phone:714-545-8467

CAGE:97451

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

Contract Num:SP0450-99-C-5215

CAGE:73277

Company Name

:SALATHE OIL CO INC  
Address:2226 PETERS RD  
Box:City:HARVEY  
State:LA  
ZIP:70058  
Country:US  
Phone:504-366-4542  
CAGE:0T5C6

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Composition/Information on Ingredients  
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Ingred Name:ETHYLENE GLYCOL (SARA 313) (CERCLA)  
CAS:107-21-1  
RTECS #:KW2975000  
Minumum % Wt:30.  
Maxumum % Wt:60.  
Other REC Limits:NONE RECOMMENDED  
ACGIH TLV:C STEL39PPM,A4,VAP96  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:2-DIETHYLAMINOETHANOL  
CAS:100-37-8  
RTECS #:KK5075000  
&lt; Wt:1.  
Other REC Limits:NONE  
RECOMMENDED  
OSHA PEL:S, 10 PPM  
ACGIH TLV:S, 2 PPM; 9596

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Hazards Identification  
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:CHRONIC EFFECTS: UNKNOWN FOR THIS  
PRODUCT. ACUTE EFFECTS: INHALATION-AVOID BREATHING PRODUCT MIST.  
BREATHING MISTS IN EXCESS OF THE STEL MAY CAUSE IRRITATION OF UPPER  
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ESPIRATORY TRACT. SKIN-MILD IRRI TANT. EYE-MODERATE IRRITANT.  
INGESTION-AVOID INGESTION. SWALLOWING LARGE AMOUNTS OF ETHYLENE  
GYLCOL HAS CAUSED BIRTH DEFECTS IN LABORATORY ANIMALS.  
Explanation of Carcinogenicity:NONE  
Medical Cond Aggravated by Exposure:PERSONS WITH CHRONIC RESPIRATORY  
DISEASE MAY SHOW INCREASED SYMPTOMS DUE TO IRRITATION.

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First Aid Measures  
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First Aid:INHALATION-REMOVE TO SOURCE OF FRESH AIR. SKIN-WASHWITH SOAP  
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ND WATER. EYE-FLUSH WITH WATER FOR 15 MINUTES; CONSULT PHYSICIAN.  
INGESTION-INDUCE VOMITING; CONSULT PHYSICIAN.

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

Extinguishing Media:PRODUCT IS A FIRE RESISTANT FLUID; NOT FLAMMABLE 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 Relea

se Procedures:MATERIAL NOT CONSIDERED A POLLUTANT IF EFFECTIVE WASTE DISPOL METHODS ARE UTILIZED. (COD-882,000 PPM). FLUSH AREA WITH WATER FOR SMALL QUANTITIES; FOR LARGE QUANTITIES DIKE TO CONTAIN & EITHER REUSE O R DISPOSE OF DEPENDING ON CONDITION.

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

Handling and Storage Precautions:AVOID CONTACT W/STRONG OXIDIZERS.CAVOID INGESTION. WASH THOROUGHLY AFTER HANDLING.

Other Precautions:NOT REQUIRED.

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==== 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 IF SKIN IS SENSITIVE

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

Other Protective Equipment:NOT REQUIRED.

Work Hygienic Practices:WASH THOROUGHLY.

Supplemental Safety and Health

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

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HCC:V6

Boiling Pt.=101.7C, 215.F

Vapor Pres:AS WATER

Vapor Density:AS WATER

Spec Gravity:1.08

pH:9.5 (NEAT)

Evaporation Rate & Reference:AS WATER.

Solubility in Water:COMPLETE.

Appearance and Odor:RED FLUID, SLIGHT AMMONIACAL ODOR.

Percent Volatiles by Volume:30 TO 60

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decompos

ition Products:THERMAL:OXIDES OF CARBON AND NITROGEN.

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

Waste Disposal Methods:PROCESS THROUGH SEWEGE OR WASTE DISPOSAL SYSTEM WHICH PROVIDES BIOLOGICAL OXIDATION. (IF WATER CONTENT IS BELOW 35%, MATERIAL MAY BE BURNED W/FUEL OIL.)

===== 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 1986 AND 40 CFR PART 372 OTHER THAN A M AXIMUM OF: 35% ETHYLENE GLYCOL (107-21-1)

Federal Regulatory Information:CERCLA REPORTABLE QUANTITY (LBS): NONE. RCRA HAZARDOUS WASTE NUMBER: N/A.

State Regulatory Information:MICHIGAN CRITICAL MATERIALS REGISTER - ACT 293. HAZARDOUS WASTE MANAGEMENT ACT - ACT 64. WE HEREBY STATE THAT HOUGHTO-SAFE 273, DOES NOT CONTAIN ANY OF THE COMPONENTS LISTED IN THE ABOVE

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

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