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

Product ID:HOUGHTO-SAFE 273

MSDS Date:03/29/2000

FSC:9150

NIIN:01-080-5962

MSDS Number: CKSPX === Responsible Party ===

Company Name: HOUGHTON INTERNATIONAL INC

Address: MADISON AND VAN BUREN AVES

Box:930

City: VALLEY FORGE

State:PA

ZIP:19482-0930

Country:US

Info Phone Num:610-666-4105

Emergency Pho

ne Num:800-424-9300

Preparer's Name:GARY CARL

Chemtrec Ind/Phone:(800)424-9300

CAGE:73277

=== Contractor Identification ===

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:SP0450-00-C-0702

CAGE:73277

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Address: MADISON AND VAN BUREN AVES

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State:PA

ZIP:19482-0930

Country:US

Phone:610-666-4105

Contract Num:SP0450-01-C-

0641 CAGE:73277

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

Ingred Name: ETHYLENE GLYCOL

CAS:107-21-1

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

ACGIH STEL:C127 MG/M3;C50 PPM

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

Ingred Name:2-DIETHYLAMINOETHANOL

CAS:100-37-8

RTECS #:KK5075000

< Wt:1.

OSHA PEL:10 PPM (SKIN) ACGIH TLV:2 PPM (SKIN)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Repor

ts of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHALATION: AVOID BREATHING PRODUCT MISTS. BREATHING MISTS IN EXCESS OF THE EXPOSURE LIMITS MAY CAUSE IRRITATION OF UPPER RESPIRATORY TRACT. SKIN: MILD IRRITANT. EYE: MODERATE IRRITANT. INGESTION: AVO ID INGESTION. SWALLOWING LARGE AMOUNTS OF ETHYLENE GLYCOL HAS CAUSED BIRTH DEFECTS IN LABORATORY ANIMALS.

Effects of Overexposure:INHALATION: AVOID BREATHING PRODUCT MISTS. BREATHING MISTS IN EX

CESS OF THE EXPOSURE LIMITS MAY CAUSE

IRRITATION OF UPPER RESPIRATORY TRACT. SKIN: MILD IRRITANT. EYE: MODERATE IRRITANT. INGESTION: AVO ID INGESTION. SWALLOWING LARGE AMOUNTS OF ETHYLENE GLYCOL HAS CAUSED BIRTH DEFECTS IN LABORATORY ANIMALS.

Medical Cond Aggravated by Exposure:PERSONS WITH CHRONIC RESPIRATORY DISEASE MAY SHOW INCREASED SYMPTOMS DUE TO IRRITATION OF MISTS.

First Aid: INHALATION: REMOVE TO S

SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSING. CONSULT PHYSICIAN IF IRRITATION PERSISTS. EYE: FLUSH WITH WATER 15 M INUTES. CONSULT PHYSICIAN. INGESTION: INDUCE VOMITING; CONSULT PHYSICIAN. Extinguishing Media: PRODUCT IS A FIRE RESISTANT FLUID; NOT FLAMMABLE AS USED. USE WATER, CARBON DIOXIDE, FOAM OR DRY CHEMICAL. Fire Fighting Procedures:IF WA TER IS REMOVED, PRODUCT WILL BURN. USE WATER, CARBON DIOXIDE, FOAM OR DRY CHEMICAL. Unusual Fire/Explosion Hazard:NONE. ============ Accidental Release Measures ============== Spill Release Procedures:FLUSH AREA WITH WATER FOR SMALL QUANTITIES; FOR LARGE QUANTITIES, DIKE TO CONTAIN AND EITHER REUS OR DISPOSE OF DEPENDING ON CONDITION. ============ Handling and Storage =========================== Handling and Storage Precautions: AVOID CONTACT WITH STRONG OXIDIZER S. AVOID INGESTION. WASH THOROUGHLY AFTER HANDLING. USE WITH ADEQUATE VENTILATION. KEEP CONTAINERS CLOSED WHEN NOT IN USE. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: REQUIRED WHEN THE EXPOSURE LIMITS ARE 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. ctive Equipment: EYE WASH AND SAFETY SHOWER RECOMMENDED. Supplemental Safety and Health ======== Physical/Chemical Properties =========== HCC:N1 Boiling Pt:=101.7C, 215.F Vapor Pres: AS WATER Vapor Density: AS WATER Spec Gravity:1.075 pH:(NEAT) 9.6 Evaporation Rate & Dr. Reference: AS WATER Solubility in Water: COMPLETE Appearance and Odor: CLEAR RED MOBILE FLUID; SLIGHT AMINE ODOR Percent Volatiles by Volume:30-60 ======== Stability and Reactivity Data ==========

OURCE OF FRESH AIR. SKIN: WASH WITH

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZERS.

Hazardous Decomposition Products:THERMAL; OXIDES OF CARBON AND NITROGEN.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

Waste Disposal Methods:FOLLOW PERTINENT REGULATIONS FOR DISPOSAL. IT IS THE RESPONSIBILITY OF THE PRODUCT USER TO DETERMINE, AT THE TIME OF DISPOSAL, WHETHER A MATERIAL CONTAINING THE PRODUCT OR DERIVED FROM THE PRODUCT SHO U

LD BE CLASSIFIED AS A HAZARDOUS WASTE. (40 CFR 261.20-24).

======== MSDS Transport Information ============

Transport Information: NON-HAZARDOUS (DOT)

========= Regulatory Information ================

SARA Title III Information:SARA TITLE III, SECTION 313: 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 4 0 CFR PART 3

72 OTHER THAN A

MAXIMUM OF: 35% ETHYLENE GLYCOL (CAS 107-21-1).

Federal Regulatory Information:CERCLA REPORTABLE QUANTITY: 35% ETHYLENE GLYCOL - RQ 5000 LBS. RCRA HAZARDOUS WASTE NUMBER: N/A. ALL OF THE COMPONENTS IN THIS PRODUCT ARE ON THE TSCA INVENTORY.

State Regulatory Information:MICHIGAN CRITICALS MATERIALS REGISTER: WE HEREBY STATE THAT HOUGHTO-SAFE 273 DOES NOT CONTAIN ANY OF THE COMPONENTS LISTED IN THE ABOVE.

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