

HOME OIL CO -- MIL-A-8243D ANTI-ICING AND DEICING-DEFROSTING FLUID -- 6850-01-039-3842

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

Product ID:MIL-A-8243D ANTI-ICING AND DEICING-DEFROSTING FLUID

MSDS Date:01/22/1996

FSC:6850

NIIN:01-039-3842

Status Code:A

MSDS Number: CJMGF

=== Responsible Party ===

Company Name:HOME OIL CO

Address:3511 N OHIO

Box:2609

City:WICHITA

State:KS

ZIP:67201

Country:US

Info Phone

Num:316-838-4663

Emergency Phone Num:800-633-8253

CAGE:0A9L8

=== Contractor Identification ===

Company Name:HOC INDUSTRIES, INC

Address:3511 N. OHIO

Box:2609

City:WICHITA

State:KS

ZIP:67219

Country:US

Phone:316-838-4663

Contract Num:SP0450-99-M-NB86

CAGE:0A9L8

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

Ingred Name:ETHYLENE GLYCOL (SARA 313) (CERCLA)

CAS:107-21-1

RTECS #:KW2975000

= Wt:67.

Other REC Limits:NONE SPECIFIED

ACGIH STEL:C 100 MG/M3

Code:F

EPA Rpt Qty:1 LB

D

OT Rpt Qty:1 LB

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

= Wt:10.

Other REC Limits:NONE SPECIFIED

Ingred Name:DIBASIC POTASSIUM PHOSPHATE

CAS:7758-11-4

= Wt:1.

Other REC Limits:NONE SPECIFIED

Ingred Name:PROPYLENE GLYCOL

CAS:57-55-6

RTECS #:TY2000000

= Wt:21.

Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM DI-(2-ETHYLHEXYL) SULFOSUCCINATE

CAS:577-11-7

Code:F

RTECS #:WN0525000

= Wt:.5

Ingred Name:SODIUM SALT OF TOLYTRIAZOLE

= Wt:.5

===== Hazards Identification

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LD50 LC50 Mixture:ORAL LD50 (RAT): 6000-13,000 MG/KG

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

Health Hazards Acute and Chronic:OTHER TARGET ORGANS: RESPIRATORY, LIVER, KIDNEY, TISSUES. MAY CAUSE TRANSIENT EYE IRRITATION.

ESSENTIALLY NONIRRITATING TO SKIN. REPEATED SKIN EXPOSURE TO LARGE QUANTITIES MAY RESULT IN ABSORPTION OF HARMFUL AMOUNTS. INGESTION OF CONSIDERABLE AMOUNTS MAY CAUSE CENTRAL NERVOUS SYSTEM AND CARDIOPULMONARY EFFECTS (ME

TABOLIC ACIDOSIS) AND KIDNEY FAILURE.

SMALL AMOUNTS SWALLOWED INCIDENTALLY ARE NOT LI KELY TO CAUSE INJURY; SWALLOWING AMOUNTS LARGER THAN THAT MAY CAUSE SERIOUS INJURY, EVEN DEATH. AT ROOM TEMPERATURE, EXPOSURES TO VAPORS ARE MINIMAL. SYSTEMIC EFFECTS: KIDNEY AND LIVER EFFECTS, CALCIU M SALT DEPOSIT IN TISSUES OF ANIMALS.

Explanation of Carcinogenicity:DID NOT CAUSE CANCER IN LONG TERM ANIMAL STUDIES.

Effects of Overexposure:SLIGHT TRANSIENT EYE IRRITATION, NONIRRITATING

TO SKIN. INGESTION OF CONSIDERABLE AMOUNTS MAY CAUSE CENTRAL NERVOUS SYSTEM AND CARDIOPULMONARY EFFECTS (METABOLIC ACIDOSIS) AND KIDNEY FAILURE.

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

First Aid: EYES: FLUSH EYES WITH PLENTY OF WATER. SKIN: WASH OFF IN FLOWING WATER. INGESTION: IF SWALLOWED, INDUCE VOMITING IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CONSULT MEDICAL PERSONNEL. INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT A PHYSICIAN. NOTE TO PHYSICIAN: EARLY ADMINISTRATION OF ETHANOL MAY COUNTER THE TOXIC EFFECTS OF ETHYLENE GLYCOL-- METABOLIC ACIDOSIS AND RENAL DAMAGE. HEMODIALYSIS OR PERITONEAL DIALYSIS HAVE BEEN OF BENEFIT. SUPPORTIVE TREATMENT BASED ON JUDGEMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.

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

Flash Point Method: SCC
Flash Point: =119.4C,
247.F
Autoignition Temp: =397.8C, 748.F
Lower Limits: 3.2
Upper Limits: NOT GIVEN
Extinguishing Media: USE WATER FOG OR FINE SPRAY. ALCOHOL RESISTENT FOAMS (ATC TYPE) ARE PREFERRED IF AVAILABLE. CARBON DIOXIDE, DRY CHEMICAL. DO NOT USE DIRECT WATER STREAM. MAY SPREAD FIRE.
Fire Fighting Procedures: WEAR POSITIVE-PRESSURE, SELF-CONTAINED BREATHING APPARATUS (SCBA) AND PROTECTIVE FIRE FIGHTING CLOTHING (INCLUDING HELMET, COAT, PANTS, BOOTS AND GLOVES).
Unusual Fire/Explosion Hazard: NO FIRE AND EXPLOSION HAZARDS EXPECTED.
HOWEVER, DIETHYLENE GLYCOL OR SOLUTIONS OF DIETHYLENE GLYCOL AND WATER CAN FORM FLAMMABLE VAPORS WITH AIR IF HEATED SUFFICIENTLY. KEEP PEOPLE AWAY. ISOLATE FIRE AREA AND DENY UNNECESSARY ENTRY.

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

Spill Release Procedures: MATERIAL IS MODERATELY TOXIC WHEN INGESTED. TAKE PRECAUTIONS TO KEEP PEOPLE, ESPECIALLY CHILDREN AWAY FROM SPILL AREA. PVC-COATED RUBBER GLOVES AND MONOGOG

GLS CAN BE USED

DURING CLEANUP. DO NOT DUMP INTO SEWERS, ON GROUND OR INTO ANY BODY OF WATER. SMALL SPILL: SOAK UP WITH ABSORBENT MATERIAL. LARGE SPILL: DIKE AND PUMP INTO SUITABLE CONTAINERS FOR DISPOSAL. NOTIFY AUTHORITIES IF REQUIRED.

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

Handling and Storage Precautions:KEEP OUT OF REACH OF CHILDREN. PRODUCT MAY BECOME A SOLID AT TEMPERATURES BELOW 8F, -13C . DO NOT STORE NEAR FOODSTUFFS, FOOD, DRUGS OR POTABLE WATER SUPPLIES.

Other Precautions:PRODUCT ON SURFACES CAN CAUSE SLIPPERY CONDITIONS. PRACTICE REASONABLE CARE AND CLEANLINESS. AVOID BREATHING SRAY MISTS IF GENERATED.

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

Respiratory Protection:FOR MOST CONDITIONS, NO RESPIRATORY PROTECTION SHOULD BE NEEDED; HOWEVER, .IF MATERIAL IS HEATED OR SPRAYED, USE AN APPROVED AIR-PURIFYING RESPIRATOR.

Ventilation:LOCAL EXHAUST AND MECHANICAL (GENERAL) VENTILATION AS

REQUIRED TO MAINTAIN EXPOSURE LEVELS.

Protective Gloves:CHEMICAL RESISTANT (NITRILE,PVC,ETC) FOR PROLONGED/REPEATED CONTACT

Eye Protection:USE SAFETY GLASSES. IF ANY EYE DISCOMFORT USE FULL-FACE RESPIRATOR.

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH CONTAMINATED CLOTHING BEFORE REUSE. WASH HANDS AND FACE AFTER USING.

Supplemental Safety and Health

NONE

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

HCC:V5

Boiling Pt:=197.2C, 387.F

Melt/Freeze Pt:M.P/F.P Text:NOT GIVEN

Vapor Pres:0.12MMHG @25C

Vapor Density:2.14

Spec Gravity:1.103 @15.6C

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS LIQUID, SLIGHT ODOR

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH ACIDS AND BASES, O

XIDIZING MATERIALS, OXIDIZING

MATERIALS SUCH AS NITRIC ACID CAN VARY FROM SLIGHT DEGRADATION TO AN EXPLOSIVE REACTION. HYDROXYL COMPOUNDS

Stability Condition to Avoid:EXTREMELY HIGH TEMPERATURES. WILL IGNITE IN AIR AT 775F. AVOID TEMPERATURES BELOW -13C (8F), FLAMMABLE VAPORS CAN BE RELEASED AT ELEVATED TEMPERATURES.

Hazardous Decomposition Products:MAY INCLUDE AND ARE NOT LIMITED TO CARBON MONOXIDE, CARBON DIOXIDE, AND TRACE AMOUNTS OF ALDEHYDES AND ORGANIC ACIDS.

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===== Ecological Information =====

Ecological:BIOCONCENTRATION POTENTIAL IS LOW (BCF LESS THAN 100 OR LOG KOW LESS THAN 3). LOG OCTANOL/WATER PARTITION COEFFICIENT (LOG KOW) IS -1.36. HENRY'S LAW CONSTANT (H) IS 6.0E-08 ATM-M3/MOL. BIOCONCENTRATION FACTOR (BCF) IS 10 IN GOLDEN ORFE. BIODEGRADATION UNDER AEROBIC STATIC LABORATORY CONDITIONS IS HIGH. ECOTOXICITY: MATERIAL IS PRACTICALLY NON-TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50 > 100 MG/L).

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

Waste Disposal Methods:BURN IN AN APPROVED INCINERATOR OR IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS OR SALVAGE.

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

SARA Title III Information:THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA)

OF 1986 AND 40 CFR PART 372: ETHYLENE GLYCOL 107-21-1 67%. SECTIONS 311 312: AN IMMEDIATE HEALTH HAZARD, A DELAYED HEALTH HAZARD. THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCE LISTED AS "HAZARDOUS SUBSTANCES" UNDER CERCLA WHICH MAY REQUIRE REPORTING OF RELEASES: ETHYLENE GLYCOL; RQ 5000 LBS (67%).

Federal Regulatory Information:THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

State Regulatory Information:S

TATE RIGHT-TO-KNOW: CITED ON CERTAIN

STATE LISTS: ETHYLENE GLYCOL: NJ3 PA1 PA3. NJ3 = NEW JERSEY

WORKPLACE SUBSTANCE. PA1 = PENNSYLVANIA HAZARDOUS SUBSTANCE. PA3
= PENNSYLVANIA ENVIRONMENTAL HAZ ARDOUS SUBSTANCE

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