

LHB INDUSTRIES -- DEICER-DEFROSTING FLUID, #0342F800

MSDS Safety Information

FSC: 6850

NIIN: 00-835-0484

MSDS Date: 02/27/1996

MSDS Num: CBTRJ

Product ID: DEICER-DEFROSTING FLUID, #0342F800

MFN: 04

Responsible Party

Cage: 0FTT5

Name: LHB INDUSTRIES

Address: 8833 FLEISCHER PLACE

City: ST. LOUIS M

O 63134

Info Phone Number: 314-522-3141

Emergency Phone Number: 314-522-3141 800-424-9300(CHEMTREC)

Preparer's Name: RUDOLF OPPENHEIM

Review Ind: Y

Published: Y

Preparer Co. when other than Responsible Party Co.

Cage: 0FTT5

Name: LHB INDUSTRIES

Address: 8833 FLEISCHER PLACE

City: ST. LOUIS MO 63134

Contractor Summary

Cage: 0FTT5

Name: LHB INDUSTRIES

Address: 8833 FLEISCHER PLACE

City: ST. LOUIS MO 63134

Phone: 314-522-3141

Item Description Information

Item Manager: GSA

Item Name: DEICING-DEFROSTING FLUID

Specification Number: O-D-190B

Unit of Issue: CN

Quantitative Expression: 0000000016OZ

UI Container Qty: L

=====

Ingredients

=====

Cas: 67-56-1

RTECS #: PC1400000

Name: METHYL ALCOHOL (SARA 313)

% Wt: 51.74

Other REC Limits: NONE SPECIFIED

OSHA PEL: S,200PPM/250STEL

ACGIH TLV: S,200PPM/250STEL; 93

EPA Rpt Qty: 5000 LBS

DOT Rpt Qty: 5000 LBS

=====

RTECS #: 9999999VO

Name: VOC: 52%; 459 G/L

Other REC Limits: NONE SPECIFIED

=====

Health Hazards Data

=====

Route Of Entry Inds - Inhalation: YES

Skin: YES

Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

Effects of Exposure: EYES: SEVERE IRRITATION/REDNESS/TEARING/ BLURRED VISION.
SKIN: PROLONGED/REPEATED CONTACT; MODERATE IRRITATION/ DEFATTING/DERMATITIS.
INHALE: NASAL/RESPIRATORY IRRITATION/CENTRAL NERVOUS SYSTEM EFFECT
S/DIZZINESS/NAUSEA/UNCONSCIOUSNESS/DEATH. INGEST: GASTROINTESTINAL IRRIT,
NAUSEA, VOMITING, DIARRHEA, BLINDNESS, DEATH.

Sign

s And Symtoms Of Overexposure: IRRITATION TO EYES/THROAT/RESPIRATORY
TRACT. MAY CAUSE HEADACHES/NAUSEA/VOMITING.

Medical Cond Aggravated By Exposure: OPEN CUT AND SORES.

First Aid: SKIN/CLOTHES: WASH W/SOAP/WATER; WASH CLOTHES BEFORE REUSE. EYES:
FLUSH W/WATER FOR 15 MINUTES/CONTACT PHYSICIAN/ OPHTHALMOLOGIST IMMEDIATELY.
INGEST: GIVE LARGE AMOUNTS WATER/MILK/INDUCE VOMITING. GET IMMEDIATE MEDICAL
ATTENTION. INHALE: REMOVE TO FRESH AIR, GIVE ARTIFICIAL RESPIRATION IF
NECESSARY. GET

MED AID IF NECESSARY. NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON.

Handling and Disposal

Spill Release Procedures: REMOVE ALL SOURCES OF IGNITION AND VENTILATE AREA.

PICK UP SPILLAGE WITH INERT ABSORBENT MATERIAL AND SWEEP UP TO A CLOSABLE CONTAINER. AVOID BREATHING VAPORS. DO NOT CONTAMINATE FOOD/FEED/WATERWAYS.

Waste Disposal Methods: DISPOSE IN ACCORDANCE W/APPLICABLE LOCAL, STATE AND

FEDERAL REGS. DO NOT PUNCTURE/INCINERATE/STORE ABOVE 120F. EXPOSURE TO HEAT/PROLONGED EXPOSURE TO SUN MAY CAUSE CAN TO BURST. DISCARD EMPTY CAN IN TRASH PICK-UP. DO NOT PLACE IN HOME TRASHCOMPACTOR.

Handling And Storage Precautions: KEEP OUT OF REACH OF CHILDREN. CAUTION- CONTENTS UNDER PRESSURE. DO NOT STORE WHERE TEMPERATURES EXCEED 120F. AVOID BREATHING SPRAY/MIST/VAPOR.

Other Precautions: AVOID CONTACT W/EYES/SKIN. USE WITH GOOD VENTILATION. READ ENTIRE LABEL BEFORE USING.

FOLLOW ALL LABEL DIRECTIONS. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING OR SWALLOWING CONTENTS MAY BE HARMFUL OR FATAL.

Fire and Explosion Hazard Information

Flash Point Method: TOC

Flash Point Text: 84.0F,28.9C

Lower Limits: 5.5

Upper Limits: 36.5

Extinguishing Media: CARBON DIOXIDE, DRY CHEMICAL, FOAM, SAND, WATER SPRAY. AVOID SPREADING ANY BURNING LIQUID WITH WATER SPRAY.

Fire Fighting Procedures: WATER INEFFECTIVE BUT USED TO KEEP EXPOSED CONTAINERS COOL. WEAR SCBA W/FULL FACEPIECE. USE SHIELDING TO PROTECT PERSONNEL FROM RUPTURE/BURST/VENT CONTAINERS.

Unusual Fire/Explosion Hazard: DO NOT SPRAY NEAR OPEN FLAME. AT ELEVATED TEMPERATURES (OVER 120F) CONTAINERS MAY VENT/RUPTURE/BURST. AEROSOL CONTAINER, DO NOT EXPOSE TO TEMPERATURES ABOVE 120F

Control Measures

=====

Respiratory Protection: NONE BELOW TLV. USE NIOSH/MSHA APPROVED MASK ABOVE TLV.
Ventilation: LOCAL EXHAUST: PREFERRED. MECHANICAL: ACCEPTABLE AT POINT OF MIST
OR SPRAY RELEASE.

Protective Gloves: TO PROTECT SKIN

Eye Protection: CHEMICAL SPLASH GOGGLES

Other Protective Equipment: IMPERVIOUS CLOTHES TO PROTECT SKIN. EYEWASH
STATION.

Work Hygienic Practices: USE GOOD HYGIENE. DO NOT EAT, DRINK OR SMOKE WHILE
USING PRODUCT.

=====

=====

Physical/Chemical Properties

=====

HCC: V3

B.P. Text: 170F,76C

M.P/F.P Text: -66F,-54C

Vapor Pres: 52 @ 20 C

Vapor Density: 1.1

Spec Gravity: .887 (WATER=1)

Evaporation Rate & Reference: 3.1 (BUAC=1)

Solubility in Water: COMPLETE

Appearance and Odor: CLEAR THIN LIQUID; ALCOHOL ODOR.

=====

Reactivity Data

=====

Sta

bility Indicator: YES

Stability Condition To Avoid: EXTREME HEAT.

Materials To Avoid: AVOID CONTACT WITH STRONG OXIDIZING AGENTS SUCH AS
NITRATES, PERCHLORATES OR SULFURIC ACID.

Hazardous Decomposition Products: TOXIC GASES AND VAPORS (CARBON MONOXIDE,
FORMALDEHYDE) MAY BE RELEASED IN METHANOL FIRE.

Hazardous Polymerization Indicator: NO

=====

Toxicological Information

=====

=====

Ecological Information

=====

=====

MSDS Transport Information

=====

=====

Regulatory Information

=====

=====

Other Information

=====

=====

=====

Transportation Information

=====

Responsible Party Cage: 0FTT5

Trans ID NO: 87838

Product ID: DEICER-DEFROSTING FLUID, #0342F800

MSDS Prepared Date: 02/27/1996

Review Date: 09/23/1996

MFN: 4

Multiple KIT Number: 0

Review IND: Y

Unit Of Issue: CN

Container QTY: L

=====

Detail DOT Information

=====

DOT PSN Code: DTJ

Symbols: D

DOT Proper Shipping Name: CONSUMER COMMODITY

Hazard Class: ORM-D

Label: NONE

Non Bulk Pack: 156,306

Bulk Pack: NONE

Max Qty Pass: 30KGROSS

Max Qty Cargo: 30KGROSS

Vessel Stow Req: A

=====

Detail IMO Information

=====

IMO PSN Code: AKH

IMO Proper Shipping Name: AEROSOLS/AEROSOL PRODUCT ?

IMDG Page Number: SEE 9022

UN Number: 1950

UN Ha

zard Class: 9?

IMO Packaging Group: -

Subsidiary Risk Label: -

EMS Number: 2-13

=====

Detail IATA Information

=====

IATA PSN Code: ALS

IATA UN ID Num: 1950

IATA Proper Shipping Name: AEROSOLS, FLAMMABLE

IATA PSN Modifier: (EACH NOT EXCEEDING 1 L CAPACITY)

IATA UN Class: 2.1

IATA Label: FLAMMABLE GAS

Packing Note Passenger: 203

Max Quant Pass: 75KG

Max Quant Cargo: 150KG

Packaging Note Cargo: 203

=====
Detail AFI Information
=====

AFI PSN Code: ALR

AFI Symbols: *

AFI Proper Shipping Name: AEROSOLS, FLAMMABLE, N.O.S.

AFI PSN Modifier: (EACH NOT EXCEEDING 1L CAPACITY)

AFI Hazard Class: 2.1

AFI UN ID NUM: UN1950

Special Provisions: P4

Back Pack Reference: A6.3
=====

HAZCOM Label
=====

Product

ID: DEICER-DEFROSTING FLUID, #0342F800

Cage: 0FTT5

Company Name: LHB INDUSTRIES

Street: 8833 FLEISCHER PLACE

City: ST. LOUIS MO

Zipcode: 63134

Health Emergency Phone: 314-522-3141 800-424-9300(CHEMTREC)

Label Required IND: Y

Date Of Label Review: 10/12/1999

Status Code: A

Origination Code: G

Hazard And Precautions: EYES: SEVERE IRRITATION/REDNESS/TEARING/ BLURRED

VISION. SKIN: PROLONGED/REPEATED CONTACT; MODERATE IRRITATION/

DEFATTING/DERMATITIS. INHALE: NASAL/RESPIRATORY IRRITATION/CENTRAL

NERVOUS

SYSTEM EFFECTS/DIZZINESS/NAUSEA/UNCONSCIOUSNESS/DEATH. INGEST:

GASTROINTESTINAL IRRIT, NAUSEA, VOMITING, DIARRHEA, BLINDNESS, DEATH.
=====

Disclaimer (provided with this information by the compiling agencies): This
information is formulated for use by elements of the Department of Defense.

The United States of America in no manner whatsoever expressly or implied
warrants, states, or intends said information to have any applica

tion, use or

viability by or to any person or persons outside the Department of Defense
nor any person or persons contracting with any instrumentality of the United

States of America and disclaims all liability for such use. Any person

utilizing this instruction who is not a military or civilian employee of the

United States of America should seek competent professional advice to verify

and assume responsibility for the suitability of this information to their

particular situation

regardless of similarity to a corresponding Department of Defense or other government situation.