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ADVANCED CHEMICAL DESIGN INC -- BOROTHENE SOLVENT

MSDS Safety Information

FSC: 6850

NIIN: 01-424-8166 MSDS Date: 05/07/1997 MSDS Num: CCMZG

Product ID: BOROTHENE SOLVENT

MFN: 01

Responsible Party Cage: ADVCI

Name: ADVANCED CHEMICAL DESIGN INC

Address: 498 SOUTH BELVOIR BLVD

City: SOUTH EUCLID

OH 44121

Info Phone Number: 216-382-2032 FAX # 216-291-5949

Emergency Phone Number: 216-382-2032/800-255-3924(CHEM-TEL)

Preparer's Name: RICH HENRY

Proprietary Ind: Y Review Ind: Y Published: Y

Contractor Summary

Cage: 05HH6

Name: ADVANCED CHEMICAL DESIGN INC

Address: UNKNOWN

Box: UNKNOW

City: UNKNOWN NK 00000

Phone: UNKNOWN

Cage: ADVCI

Name: ADVANCED CHEMICAL INDUSTRIES

Address: HWY 2 AND 52 WEST

City: MINOT ND 58701-5000

Phone: 701-852-5130

Cage: 0F2M5

Name: TULSTAR PRODUCTS INC Address: 1722 S CARSON, SUITE 2907

City: TULSA OK 74119

Phone: 918-587-7878/FAX -3297 (DAVID COOK)

Item Description Information

Item Manager: S9G

Item Name: CLEANING COMPOUND, SOLVENT

Specification Number: UNKNOWN

Unit of Issue: CN

Quantitative Expression: 00000000005GL

UI Container Qty:

1

Type of Container: CAN

Ingredients

Name: *** PROPRIETARY ***

Health Hazards Data

LD50 LC50 Mixture: TLV:200PPM. Route Of Entry Inds - Inhalation: YES

Skin: YES Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: NO OSHA: NO Effects of Expos

ure: INHAL:HI CONC IRRIT RESP TRACT.MAY CAUSE

HEAD, DIZZ, NAU, VOMIT, NARCOSIS IN CONFINED/POORLY VENTI AREA. SKIN: BRIEF CONTACT MAY CAUSE SLIGHT IRRIT, PROL CONTACT MAY CAUSE MODERATE IRRIT, DERM. PROBLEM MAY

BE ACCENTUATED BY LIQ BECOMING TRAPPED AGAINST SKIN BY CONTAM

CLOTH/SHOES.EYE:CONTACT/HI VAP CONC MAY CAUSE IRRIT,(SUPPL)

Explanation Of Carcinogenicity: PER MSDS:CARCINOGENCITY:NTP/IARC/CA PROP 65:NOT LISTED.

OSHA:NOT REGULATED.

Signs And Symptions Of Overexposure: IRRIT RESP

HEADACHE, DIZZINESS, NAUSEA, VOMITING, NARCOSIS. SLIGHT SKIN IRRIT, MODERATE IRRIT, DERM. EYE IRRIT/PAIN. IRRIT OF MOUTH/GASTROINTESTINATL TRACT, ABDOMINAL PAIN, VOMITING.

Medical Cond Aggravated By Exposure: NONE SPECIFIED BY MANUFACTURER.

First Aid: INHAL:REMOVE TO FRESH AIR.PROVIDE OXY IF BREATH DIFFI; ADMIN CPR IF NOT BREATH.SEEK MED ATTN.SKIN:REMOVE CONTAM CLOTH.WSH AREA W/PLENTY OF SOAP/WATER.IRRIT PERSIST SEEK MED ATTN.EYE:FLUSH W/WATER FOR 1 5MINS WHILE HOLDING EYELIDS OPN.IRRIT PERSIST SE

EK MED ATTN.INGEST:IF CONSC HAVE HIM

DRINK LG AMTS OF WATER.DONT INDUCE VOMIT.DONT GIVE ANYTHING BY MOUTH IF UNCONSC.SEEK IMMED MED ATTN.

Handling and Disposal

Spill Release Procedures: EVACUATE AREA.STOP LEAK W/O RISK.CONTAIN & DVER W/VERMICULITE OR SAND.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: DISPO OF IAW LOC/STATE/FED REGS.DONT FLUSH T

O SANITARY

SEWER/WATERWAY.REF TO RCRA REGS 40CFR260-281 FOR WASTE DISPO INSTRUCTIONS.

Handling And Storage Precautions: KEEP CNTNR TIGHTLY CLSD WHEN OT IN USE.PROTECT FROM EXTREME TEPS.ISOLATE INCOMPATIBLE MATLS.

Other Precautions: KEEP THIS MATL OUT OF REACH OF CHILDREN.MINIMIZE BODY

CONTACT W/THIS PRODUCT.AVOID INHAL FUMES/VAPORS.

Fire and Explosion Hazard Information

Flash Po

int Text: NON-FLAMMAMBLE

Extinguishing Media: MATERIAL IS NON-FLAMMABLE.

Fire Fighting Procedures: FIRE FIGHTERS SHOULD WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IN POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard: PRODUCT WILL DECOMPOSE AT TEMPERATURES ABOVE

400F RELEASING TOXIC FUMES OF CO, CO2, AND HYDROGEN BROMIDE.

Control Measures

Respiratory Protection: AT

HIGH LEVELS OF CONCENTRATION USE SELF-CONTAINED

BREATHING APPARATUS.

Ventilation: USE ADQUATE MECHANICAL/LOC EXHAU VENTI TO KEEP VAPOR/MIST LEVELS

AS LOW AS POSSIBLE.

Protective Gloves: IMPERV TO CHEMS-VITON, POLYETHYLENE, NITRI

Eye Protection: SPLASH-PROOF CHEM SAF GOGG, FCSHIELD.

Other Protective Equipment: CONTACT LENS SHOULDNT BE WORN WHEN WORK

W/MATL.CLEAN BODY-COVER CLOTH,APRON,BOOTS NOT MADE OF NAT RUBB.SAF

EYEBATH/SHOWR

Work Hygienic Practices: LAUNDER CONTAM CLOTH BEFORE REUSE.ELIM

INATE BODY

CONTACT W/CHEM.DONT EAT/DRINK/SMOKE TIL AFT WORK WASHING.

Supplemental Safety and Health: HEALTH:PAIN.INEST:MAY RESULT IN IRRIT OF MOUTH & DESCRIPTION & SAME AND SET THE STATE OF MOUTH ADDN TO EFFECTS SIMILAR TO THOSE CAUSED BY INHAL.

Physical/Chemical Properties

HCC: T4

B.P. Text: 154F,68C M.P/F.P Text: -113F,-81C

Decomp Text: >400F,>204C

Vapor Pres: 117 Vapor Density: 6.0

Spec Gravity: 1.74

Evaporation Rate & Evaporation R

Solubility in Water: NEGLIGIBLE

Appearance and Odor: CLEAR COLORLESS LIQUID, SWEET ODOR

Reactivity Data

Stability Indicator: YES

Stability Condition To Avoid: AVOID TEMPERATURE ABOVE 400F.

Materials To Avoid: AVOID STRONG OXIDIZERS & ACIDS.MAY ATTACK SOME

PLASTICS, RUBBERS & COATINGS. THOROUGHLY TEST FOR ALL AP

PLICATIONS BEF USE.

Hazardous Decomposition Products: THERMAL DECOMPOSITION MAY YIELD CO, CO2, HBR.

Hazardous Polymerization Indicator: NO

Toxicological Information

Ecological Information

MSDS Transport Information

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Regulatory Information

Other Information

Transportation Information

Responsible Party Cage: ADVCI

Trans ID NO: 136104

Product ID: BOROTHENE SOLVENT MSDS Prepared Date: 05/07/1997

Review Date: 01/27/1998

MFN: 1

Tech Entry NOS Shipping Nm: HALOGENATED HYDROCARBON

Net Unit Weight: 79.2 LBS Multiple KIT Number: 0

Review IND: Y Unit Of Issue: CN Container QTY: 1

Type Of Container: CAN

Additional Data: PER MSDS:TRANSPO INFO PROPER SHIPPING NAME:POISONOUS LIQ, HALOGENATED HYDROCARBON, 6.1, ID#:NONE, PK G GROUP III, LABE:KEEP AWAY FROM

FOOD.QUANT LIMITATIONS:PASSENGER AIRCRAFT/RAIL CAR:60L(15.85GAL);CARG

0

AIRCRAFT ONLY:220L(58.11GAL). PER CTDF:24-26 GAUGE.

Detail DOT Information

DOT PSN Code: QKO

Symbols: G

DOT Proper Shipping Name: TOXIC LIQUIDS, ORGANIC, N.O.S.

Hazard Class: 6.1 UN ID Num: UN2810 DOT Packaging Group: III

Label: KEEP AWAY FROM FOOD

Special Provision: T7
Packaging Exception: 153
Non Bulk Pack: 203
Bulk Pack: 241
Max Qty Pass: 60 L

Vessel Stow R

eq: A

Water/Ship/Other Req: 40

Detail IMO Information

Max Qty Cargo: 220 L

IMO PSN Code: HWH

IMO Proper Shipping Name: HALOGENATED IRRITATING LIQUID, N.O.S. y

IMDG Page Number: 6157

UN Number: 1610 UN Hazard Class: 6.1 IMO Packaging Group: II/III Subsidiary Risk Label: -EMS Number: 6.1-02

MED First Aid Guide NUM: 740

Detail IATA Information

IATA PSN Code: YIF IATA UN ID Num: 2810

IATA Proper Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S. *

IATA UN Class: 6.1 IATA Label: TOXIC UN Packing Group: III

Packing Note Passenger: 611

Max Quant Pass: 60L Max Quant Cargo: 220L Packaging Note Cargo: 618

Detail AFI Information

AFI PSN Code: NBL

AFI Symbols: *

AFI Proper Shipping Name: HA

LOGENATED IRRITATING LIQUID, N.O.S.

AFI Hazard Class: 6.1 AFI UN ID NUM: UN1610 AFI Packing Group: III Special Provisions: P5

Back Pack Reference: A10.5

HAZCOM Label

Product ID: BOROTHENE SOLVENT

Cage: ADVCI

Company Name: ADVANCED CHEMICAL INDUSTRIES

Street: HWY 2 AND 52 WEST

City: MINOT ND Zipcode: 58701-5000

Health Emergency Phone: 216-382-2032/800-255-3924(CHEM-TEL)

Label Required

IND: Y

Date Of Label Review: 01/21/1998

Status Code: C

MFG Label NO: NONE
Label Date: 01/21/1998
Year Procured: 1997
Origination Code: F
Chronic Hazard IND: Y
Eye Protection IND: YES
Skin Protection IND: YES
Signal Word: CAUTION

Respiratory Protection IND: YES

Health Hazard: Moderate Contact Hazard: Slight Fire Hazard: None Reactivity Hazard: None

Hazard And Precautions: INHAL:HI CONC IRRIT RESP

TRACT, HEAD, DIZZ, NAU, VOMIT, NARCOSIS IN CONF/POORLY VENTI AREA. SKIN: BRIEF

CONTACT SLIGHT IRRIT, PROL

CONTACT MODERATE IRRIT, DERM. PROBLEM ACCENTUATED BY

TRAPPED LIQ AGAINST SKIN B Y CONTAM CLOTH/SHOES.EYE:CONTACT/HI VAPCONC

IRRIT/PAIN.INGEST:IRRIT MOUTH/GI TRACT,ABD PAIN,VOMIT.TARGET

ORGANS:CNS/EYE/SKIN/GI TRACT.1STAID:INHAL:MOVE TO FRESH AIR.DIFFI BREATH GIVE OXY;NOT BREATH CP R.GET MED ATTN.SKIN:REMOVE CONTAM CLOTH.WASH AREA W/LOTS OF SOAP/H2O.IRRIT PERSIST GET MED ATTN.EYE:FLUSH W/H2O 15MINS,HOLD OPN

EYELIDS.IRRIT PERSIST GET MED ATTN.INGEST:IF CONSC GIVE LG AMTS OF H2O T O

DRI

NK.DONT INDUCE VOMIT.GET IMMED MED ATTN.

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