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SHELL CHEMICALS CANADA LIMI -- ISOPROPYL ALCOHOL, ACS

MSDS Safety Information

FSC: 6810

NIIN: 00-227-0410 MSDS Date: 09/10/1997 MSDS Num: CJMDK

Product ID: ISOPROPYL ALCOHOL, ACS

MFN: 01

Responsible Party Cage: 36131

Name: SHELL CHEMICALS CANADA LIMITED

Address: 400 4TH AVE SW SECTION C

Box: 42 80

City: CALGARY, ALBERTA CANADA NK 00000

Info Phone Number: 403-691-3111

Emergency Phone Number: 613.996.6666

Proprietary Ind: Y Review Ind: Y Published: Y

Contractor Summary

Cage: 0A9L8

Name: HOC INDUSTRIES, INC

Address: 3511 N. OHIO

Box: 2609

City: WICHITA KS 67219 Phone: 316-838-4663

Contract Number: SP0450-99-M-C350

Cage: 36131

Name: SHELL CHEMICALS CANADA LIMITED

Address: 400 4

TH AVE SW STATION C

Box: 4280

City: CALGARY, ALBERTA CANADA NK 00000

Phone: 403-691-2638/800-567-8860

Item Description Information

Item Manager: S9G

Item Name: ISOPROPYL ALCOHOL, ACS

Specification Number: O-C-265

Unit of Issue: GL UI Container Qty: 4

Type of Container: BOTTLE

Ingredients

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Name: *** PROPRIETARY ***

Health Hazards Data

LD50 LC50 Mixture: ORAL, RAT LD50: 4720 MG/KG

Route Of Entry Inds - Inhalation: YES

Skin: YES Ingestion: YES

Effects of Exposure: EXPOSURE MAY OCCUR VIA INHALATION, SKIN ABSORPTION & SKIN OR EYE CONTACT. THIS PRODUCT IS IRRITATING TO THE EYE BUT IS NOT PRIMARY SKIN IRRITANT AFTER SHORT E

XPOSURE & amp; IS NOT A SKIN SENSITIZER. PROLO

NGED AND REPEATED CONTACT WITH SKIN CAN CAUSE DEFATTING & DRYING RESULTING IN IRRITATION & DERMATITIS. EXPOSURE TO HIGH VAPOR CONCENTRATIONS MAY CAUSE EYE & DIRECTORY TRACT IRRITATION. ALTHOUGH ING ESTION IS UNLIKELY, LIQUID WOULD IRRITATE THE UPPER DIGESTIVE TRACT & DEPRESSION.

Explanation Of Carcinogenicity: NONE SPECIFIED BY MANUFACTURER.

Signs And Symptions Of Overexposure: SKIN-DEFATTING, DRYI

NG, IRRITATION,

DERMATITIS. EYES-IRRITATION. INHALED-IRRITATION, HEADACHE, DIZZINESS, NAUSEA, INCOORDINATION, DROWSINESS, LOSS OF UNCONSCIOUSNESS. INGESTED-IRRITATION OF UPPER DIG ESTIVE TRACT, HEADACHE, DIZZINESS, FATIGUE.

Medical Cond Aggravated By Exposure: PREEXISTING EYE, SKIN & amp; RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

First Aid: EYES-FLUSH WITH WASTER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION AS SOON AS POSSIBLE AFTE

R 1ST AID HAS BEEN

INITIATED & DEPTH COMPLETED. INHALATION-REMOVE VICTIM FROM FURTHER EXPOSURE & DEPTH COMPLETED. INHALATION-REMOVE VICTIM FROM FURTHER EXPOSURE & DEPTH COMPLETED. OBTAIN MEDICAL ATTENTION. INGESTED-DO NOT INDUCE VOMITING! NOTHING BY MOUTH IF UNCONSCIOUS. GUARD AGAINST ASPIRATION INTO LUNGS. OBTAIN IMMEDIATE MEDICAL A TTENTION. SKIN-START RINSING & DEPTH CONTAMINATED CLOTHES. WASH CONTAMINATED SKIN WITH SOAP & DEPTH CONTAMINATED SKIN WITH SOAP & DEPTH CONTAMINATED. GET MEDICAL ATTENTION IF IRRITATION OCCURS OR P

ERSISTS.

Handling and Disposal

Spill Release Procedures: ELIMINATE SOURCES OF IGNITION. ISOLATE HAZARD AREA & amp; RESTRICT ACCESS. WORK UPWIND OF SPILL. AVOID DIRECT CONTACT WITH SPILLED MATERIAL. WEAR APPROPRIATE BREATHING APPARATUS. STOP LEAK ONLY IF SAFE TO DO SO. DIKE & amp; CONTAIN LAND SPILL. CONTAIN RUNOFF. REMOVE LARGE SPILLS BY MECHANICAL MEANS & amp; CONTAINERIZE. ABSO

RB SMALL SPILLS, SCOOP UP

& PLACE IN A PPROPRIATE CONTAINER FOR DISPOSAL.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods: WASTE MANAGEMENT PRIORITIES (DEPENDING ON VOLUMES & DISPOSAL AT A LICENSED WASTE DISPOSAL FACILITY. DO NOT ATTEMPT TO COMBUST WASTE ON-SITE. INCINERATE AT A LICENSED WASTE DISPOSAL SITE WITH APPROVAL OF

Handling And Storage Precaut

ENVIRONMENTAL AUTHORITY.

ions: ELIMINATE ALL IGNITION SOURCES. AVOID

PROLONGED EXPOSURE TO VAPORS. WEAR SUITABLE GLOVES & DEPARTMENT OF THE PROTECTION. BOND

& GROUND TRANSFER CONTAINERS & EQUIPMENT TO AVOID SSTATIC

ACCUMULATION. EMPTY CONTAINERS ARE HAZARDOUS, MAY ONTAIN FLAMMABLE/EXPLOSIVE LIQUID RESIDUE OR VAPORS.

Other Precautions: KEEP AWAY FROM SPARKS & DPEN FLAMES.

Fire and Explosion Hazard Information

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Flash Point Method: TCC Flash Point: =-10.C, 14.F

Autoignition Temp: =399.C, 750.2F Autoignition Temp Text: DEG C

Lower Limits: 2 Upper Limits: 12

Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, ALCOHOL DIOXIDE, ALCOHOL

FOAM, WATER FOG.

Fire Fighting Procedures: DO NOT ENTER CONFINED FIRE SPACE WITHOUT ADEQUATE PROTECTIVE CLOTHING AND AN APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. EVACUATE HAZARD AREA. USE WATER TO COOL FIRE EXPOSED CONTAIN ERS.

Unusual F

ire/Explosion Hazard: FLAMMABLE. CONTAINERS MAY EXPLODE IN HEAT OF FIRE. VAPOURS MAY CONCENTRATE IN CONFINED AREAS.

Control Measures

Respiratory Protection: WEAR A NIOSH-APPROVED RESPIRATOR IF EXPOSURE EXCEEDS EXPOSURE LIMITS. USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE. PROPER EQUIPMENT FOR H IGH CONCENTRATIONS IN

CLUDES ATMOSPHERE SUPPLIED, POSITIVE PRESSURE DEMAND,

SELF-CONTAINED OR AIRLINE BREATHING APPARATUS.

Ventilation: MECHANICAL VENTILATION IS RECOMMENDED FOR ALL INDOOR SITUATIONS TO CONTROL FUGITIVE EMISSIONS.

Protective Gloves: IMPERVIOUS GLOVES(VITON, NITRITE) BE WORN AT ALL TIMES WHEN HANDLING MATERIAL.

Eye Protection: CHEMICAL SAFETY GOGGLES SHOULD BE WORN. PROVIDE AN EYEWASH STATION IN THE AREA.

Other Protective Equipment: IMPERVIOUS CLOTHING (APRON, COVERALLS) SHOULD ALSO BE WORN

IN CONFINED WORKSPACES OR WHERE THE RISK OF SKIN EXPOSURE IS MUCH HIGHER. SAFETY SHOWERS SHOULD BE AVAILABLE FOR EMERGENCY USE.

Work Hygienic Practices: LAUNDER CONTAMINATED CLOTHING PRIOR TO REUSE. USE GOOD PERSONAL HYGIENE. AIR-DRY CONTAMINATED CLOTHING IN A WELL-VENTILATED AREA BEFORE LAUNDERING.

Supplemental Safety and Health: ELECTRICAL AND MECHANICAL EQUIPMENT SHOULD BE EXPOSION-PROOF. CONCENTRATIONS IN AIR SHOULD BE MAINTAINED BELOW THE RECOMMENDED THRESHOLD LIMIT VALUE IF UNPRO

TECTED PERSONNEL ARE INVOLVED. FOR

PERSONNE L ENTRY INTO CONFINED SPACES(IE. BULK STORAGE TANKS) A PROPER CONFINED SPACE ENTRY PROCEDURE MUST BE FOLLOWED INCLUDING

Physical/Chemical Properties

HCC: F2

B.P. Text: DEG C (82 - 83) M.P/F.P Text: DEG C (-86 - -89)

Vapor Pres: MMHG@DEG C (>33.0@20)

Vapor Density: AIR=1(2.1) Spec Gravity: H20=1 (0.79)

Evaporation Rate & Deference:

NBUAC=1 (1.44)

Solubility in Water: COMPLETE

Appearance and Odor: COLOURLESS CLEAR ALCOHOL ODOUR

Reactivity Data

Stability Indicator: YES

Stability Condition To Avoid: AVOID EXCESSIVE HEAT, OPEN FLAMES AND ALL

IGNITION SOURCES. SENSITIVITY TO STATIC DISCHARGE.

Materials To Avoid: AVOID CONTACT WITH STRONG OXIDIZING AGENTS AND ACIDS.

ALUMINUM AT HIGH TEMPERATURES.

Hazardous Decomp

osition Products: VAPOUR FORMS A FLAMMABLE/EXPLOSIVE MIXTURE

WITH AIR BETWEEN UPPER AND LOWER FLAMMABLE LIMITS. CARBON MONOXIDE AND CARBON DIOXIDE ARE PRODUCED ON COMBUSTION.

Hazardous Polymerization Indicator: NO

Conditions To Avoid Polymerization: NONE SPECIFIED BY MANUFACTURER.

Toxicological Information

Toxicological Information: ISOPROPANOL TESTED NEGATIVE IN TWO MUTAGENICITY ASSAYS; THE MOUSE MICRONUCLEUS & DESTRUCTION OF RATS & DESTRUCTION OF REDUCED REPORT OF A STATE OF THE NEW PRODUCES REDUCED FETAL BODY WEIGHT IN RATS ONLY AT DOSES WHICH RESULT IN TRETAMENT RELATED MATERNAL DEATHS & DEATHS & DEATHS & DESTRUCTION OF FETAL EFFECTS IN RABBITS EVEN AT DOSE WHICH RESULTED IN SIGNIFIGANT MATERNAL MORTAILITY. ISOPROPA NOL PRODUCES NO EVIDENCE OF DEVELOPMENTAL NEUROTOXICITY.

Ecologica

I Information

Ecological: MAY BE HARMFUL TO AQUATIC LIFE. AQAUTIC TOXICITY RATING (TLM 96)=10 TP 100 PPM. NO FOOD CHAIN CONCENTRATION POTENTIAL.

BIODEGRADABILITY/BIODEGRADABLE(FAST): RAPID VOLITILIZATION. NOTE: DO NOT ALLOW PR ODUCT OR RUN-OFF FROM FIRE CONTROL TO ENTER STORM OR SANITARY SEWRS, LAKES, RIVERS, STREAMS OR PUBLIC WATERWAYS. BLOCK OFF DRAINS & DITCHES. PROVINCIAL REGULATIONS REQUIRE & PROVINCIAL REGULATIONS MAY

RE QUIRE THAT

ENVIRONMENTAL AGENCIES BY NOTIFIED OF A SPILL INCIDENT. SPILL AREA MUST BE CLEANED & ETURNED TO ORIGINAL CONDITION OR TO THE SATISFACTION OF AUTHORITIES.

MSDS Transport Information

Transport Information: SHIPPING NAME: ISOPROPANOL. CLASS: 3 FLAMMABLE LIQUID.

PACKING GROUP: II. UN NUMBER: 1219.

Regulato

ry Information

Sara Title III Information: NONE SPECIFIED BY MANUFACTURER.

Federal Regulatory Information: NONE SPECIFIED BY MANUFACTURER. State Regulatory Information: NONE SPECIFIED BY MANUFACTURER.

Other Information

Other Information: PRODUCT USE: ORGANIC SOLVENT. CANADIAN WHIMIS: CLASS B2:

FLAMMABLE LIQUID. CLASS D2B: OTHE

R TOXIC EFFECTS - EYE IRRITANT.

Transportation Information

Responsible Party Cage: 36131

Trans ID NO: 148429

Product ID: ISOPROPYL ALCOHOL, ACS

MSDS Prepared Date: 09/10/1997

Review Date: 09/16/1999

MFN: 1

Net Unit Weight: 6.6 LB Multiple KIT Number: 0 Unit Of Issue: GL Container QTY: 4

Type Of Container: BOTTLE

Detail DOT Inform

ation

DOT PSN Code: HWY

DOT Proper Shipping Name: ISOPROPANOL OR ISOPROPYL ALCOHOL

Hazard Class: 3 UN ID Num: UN1219 DOT Packaging Group: II Label: FLAMMABLE LIQUID

Special Provision: T1
Packaging Exception: 150
Non Bulk Pack: 202
Bulk Pack: 242
Max Qty Pass: 5 L

Max Qty Cargo: 60 L Vessel Stow Reg: B

Detail IMO Information

IMO

PSN Code: ITA

IMO Proper Shipping Name: ISOPROPANOL

IMDG Page Number: 3244

UN Number: 1219 UN Hazard Class: 3.2 IMO Packaging Group: II Subsidiary Risk Label: -EMS Number: 3-06

MED First Aid Guide NUM: 305

Detail IATA Information

IATA PSN Code: ONH IATA UN ID Num: 1219

IATA Proper Shipping Name: ISOPROPANOL

IATA UN Class: 3

IATA Label: FLAMMABLE LIQUID

UN Packing Group: II

Packing No

te Passenger: 305
Max Quant Pass: 5L
Max Quant Cargo: 60L
Packaging Note Cargo: 307

Detail AFI Information

AFI PSN Code: ONH

AFI Proper Shipping Name: ISOPROPANOL

AFI Hazard Class: 3
AFI UN ID NUM: UN1219
AFI Packing Group: II
Special Provisions: P5
Back Pack Reference: A7.3

HAZCOM Label

Product ID: ISOPROPYL ALCOHOL, ACS

Cage: 36131

Company Name: SHELL CHEMICALS CANADA LIMITED

Street: 400 4TH AVE SW STATION C

PO Box: 4280

City: CALGARY, ALBERTA CANADA NK

Zipcode: 00000

Health Emergency Phone: 613.996.6666

Label Required IND: Y

Date Of Label Review: 09/16/1999

Status Code: A Year Procured: 1999 Origination Code: F Eye Protection IND: YES Skin Protection IND: YES Signal Word: DANGER

Respiratory Protection IND: YES

Health Hazard: Severe Contact Hazard: Moderate

Fir

e Hazard: Slight

Reactivity Hazard: None

Hazard And Precautions: TARGET ORGANS: NONE SPECIFIED BY MANUFACTURER. ACUTE: EXPOSURE MAY OCCUR VIA INHALATION, SKIN ABSORPTION & DRING OR EYE CONTACT. THIS PRODUCT IS IRRITATING TO THE EYE BUT IS NOT PRIMARY SKIN IRRITANT AFTER SHORT EXPOSURE & DRING A SKIN SENSITIZER. PROLONGED AND REPEATED CONTACT WITH SKIN CANCAUSE DEFATTING & DRYING RESULTING IN IRRITATION & DERMATITIS. EXPOSURE TO HIGH VAPOR CONCENTRATIONS MAY C AUSE EY

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RESPIRATORY TRACT IRRITATION. ALTHOUGH INGESTION IS UNLIKELY, LIQUID WOULD IRRITATE THE UPPER DIGESTIVE TRACT & DEPRESSION.

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