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SHELL CHEMICALS CANADA LIMI -- I.P.A. 99

MSDS Safety Information

FSC: 6810

NIIN: 01-220-9907 MSDS Date: 09/10/1997 MSDS Num: CJPVH Product ID: I.P.A. 99

MFN: 01

Responsible Party Cage: 36131

Name: SHELL CHEMICALS CANADA LIMITED

Address: 400 4TH AVE SW STATION C

Box: 4280 City: CALG

ARY, ALBERTA CANADA NK 00000 Info Phone Number: 403-691-3111

Emergency Phone Number: 800-661-7378 Resp. Party Other MSDS No.: 721-100

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-NB43

Cage: 36131

Name: SHELL CHEMICALS CANADA

LIMITED

Address: 400 4TH AVE SW STATION C

Box: 4280

City: CALGARY, ALBERTA CANADA NK 00000

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

Cage: 86961

Name: SHELL CHEMICAL COMPANY A DIV. OF SHELL OIL CO.

Address: 1 SHELL PLAZA

Box: 2463

City: HOUSTON TX 77001 Phone: 713-473-9461

Cage: TO031

Name: SHELL CHEMICALS CANADA LIMITED

Address: 400-4TH AVE S.W.

Box: 4280C

City: CALGARY, ALBERTA T2T 5Z5 AB 00000

Country: CA

Phone: 800-661-7378

Cage: SHELL

Name: SHELL OIL COMPANY PRODUCT SAFETY AND COMPLIANCE

Address: P

.O. BOX 4320 Box: 4320

City: HOUSTON TX 77210

Phone: 713-241-2252 /713-241-4819

Item Description Information

Item Manager: S9G

Item Name: ISOPROPYL ALCOHOL, TECHNICAL

Specification Number: TT-I-735 Type/Grade/Class: GRADE B

Unit of Issue: GL UI Container Qty: 0

Type of Container: IP3 METAL CAN

Ingredients

Name: *** PROPRIETARY ***

Health Hazards Data

Route Of Entry Inds - Inhalation: YES

Skin: YES Ingestion: YES

Carcinogenicity Inds - NTP: NO

IARC: NO OSHA: NO

Effects of Exposure: THIS PRODUCT IS IRRITATING TO THE EYE BUT IS NOT A PRIMARY SKIN IRRITANT AFTER EXPOSURE TO SHORT DURATION AND IS NOT A SKIN SENSITIZER.

Explana

tion Of Carcinogenicity: ISOPROPANOL TESTED NEGATIVE IN TWO MUTAGENICITY ASSAYS; THE MOUSE MICRONUCLEUS AND CHINESE HAMSTER OVARY ASSAYS.

Signs And Symptions Of Overexposure: PROLONGED AND REPEATED CONTACT WITH SKIN CAN CAUSE DEFATTING AND DRYING OF THE SKIN RESULTING IN SKIN IRRITATION AND DERMATITIS. EXPOSURE TO HIGH VAPOUR CONCENTRATIONS MAY CAUSE EYE & ESPIRATORY TRAC T IRRITATION, HEADACHE, DIZZINESS, NAUSEA, INCOORDINATION, DROWSINESS & DROWSINESS OF CONSCIOUSNESS. ALTHOUGH IN

GESTION IS UNLIKELY,

LIQUID WOULD IRRITATE UPPER DIGESTIVE TRACT IF SWALLOWED. INGESTION OF TH IS PRODUCT MAY CAUSE HEADACHE, DIZZINESS, FATIGUE & ENTRAL NERVOUS SYSTEM DEPRESSION.

Medical Cond Aggravated By Exposure: PRE-EXISTING EYE, SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

First Aid: EYES-FLUSH WITH WATER FOR 15 MIN WHILE HOLDING EYELIDS OPEN. OBTAIN MEDICAL AID AS SOON AS POSSIBLE. INHALATION-REMOVE VICTIM FROM EXPOSURE & amp; RESTORE BREA

THING, IF REQUIRED. OBTAIN MEDICAL AID. INGEST ION-DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GUARD AGAINST ASPIRATION INTO LUNGS BY TURNING INDIVIDUAL ON TO THEIR LEFT SIDE. IF VOMITING OCCURS SPONTANEOUSLY, K EEP HEAD BELOW HIPS. OBTAIN MEDICAL AID IMMEDIATELY. SKIN-RINSE & REMOVE CONTAMINATED CLOTHES WHILE RINSING. WASH SKIN WITH MILD SOAP & WATER FOR 15 MIN. IF IRRITATION OCCURS/PERSISTS OBTAIN MEDICAL A ID.

Handling and Disposal

Spill Release Procedures: ISSUE WARNING "FLAMMABLE". ELIMINATE ALL IGNITION SOURCES. ISOLATE HAZARD AREA & mp; RESTRICT ACCESS. TRY TO WORK UPWIND OF SPILL. AVOID DIRECT CONTACT WITH MATERIAL. WEAR PROTECTIVE APPARATUS & mp; CLOTHING (IF NEEDED). STOP LEAK ONLY IF IT IS SAFE TO DO SO. DIKE & mp; CONTAIN LAND SPILLS; CONTAIN WATER SPILLS BY BOOMING. USE WATER FOG TO KNOCK DOWN VAP

OURS; CONTAIN RUNNOFF.

Waste Disposal Methods: WASTE MANAGEMENT PRIORITIES ARE: 1. RECYCLE (REPROCESS), 2. ENERGY RECOVERY (CEMENT KILNS, THERMAL POWER GENERATION), 3. INCINERATION, 4. DISPOSAL AT A LICENSED WASTE DISPOSAL FACILITY. DO NOT ATTEMPT TO COMBUST WASTE ON-SITE. INCINERATION AT A LICENSED WASTE DISPOSAL SITE WITH APPROVAL OF ENVIRONME NTAL AUTHORITY.

Handling And Storage Precautions: FLAMMABLE. STORE IN A COOL, DRY, WELL VENTILATED AREA, AWAY FROM HEAT/IGNITION SOURCES. DO NOT CUT. DRILL. GRIND.

WELD OR PERFORM SIMILIAR OPERATIONS ON/NEAR CONTAINERS. VAPORS MAY ACCUMULATE & CONTAINERS & CO

Other Precautions: EMPTY CONTAINERS MAY CONTAIN HAZARDOUS PRODUCT RESIDUES. FIXED EQUIPMENT AS WELL AS TRANSFER CONTAINERS AND EQUIPMENT SHOULD BE GROUNDED TO PREVENT ACCUMULATION OF STATIC CHARGE. HOT SURFACES MAY BE S UFFICIENT TO IGNITE LIQUID EVEN IN THE ABSENCE OF SP ARKS OR FLAMES.

Fire and Explosion Hazard Information

Flash Point Method: TCC Flash Point: =14.C, 57.2F

Autoignition Temp: =399.C, 750.2F

Lower Limits: 2.0 Upper Limits: 12.0

Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, ALCOHOL FOAM AND WATER FOG.

Fire Fighting Procedures: DO NOT ENTER CONFINED FIRE SPACE WITHOUT ADEQUATE

PROTECTIVE CLOTHING AND AN APPROVED POSITIVE PRESSURE S

ELF-CONTAINED

BREATHING APPARATUS. EVACUATE HAZARD AREA. USE WATER TO COOL FIRE EXPOSED CONTAIN ERS. CONTAINERS MAY EXPLODE IN HEAT OF FIRE. VAPOURS MAY CONCENTRATE IN CONFINED AREAS. CONTAINERS EXPOSED TO INTENSE

Unusual Fire/Explosion Hazard: HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOUR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUAN ITIES OF WATER AS NEEDED TO PREVENT WEAKEN

ING OF CONTAINER STRUCTURE.

FIGHT FIRE FROM MAXIMUM DISTANCE.

Control Measures

Respiratory Protection: IF EXPOSURE EXCEEDS OCCUPATIONAL EXPOSURE LIMITS, WEAR A NIOSH-APPROVED RESPIRATOR. USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPOURS. PROPER EQUIPMENT F OR HIGH CONCENTRATIONS INCLUDES AN ATMOSPHERE SUPPLIED, POSITIVE PRESSURE D EMAND,

SELF-CONTAINED OR AIRLINE BREATHING APPARATUS.

Ventilation: MECHANICAL VENILATION IS RECOMMENDED FOR ALL INDOOR SITUATIONS TO CONTROL FUGITIVE EMISSION.

Protective Gloves: IMPERVIOUS GLOVES(VITON, NITRILE)

Eve Protection: CHEMICL SAFETY GOGGLES

Other Protective Equipment: PROVIDE AN EYEWASH STATION IN THE AREA. IMPERVIOUS CLOTHING (APRON, COVERALLS) SHOULD ALSO BE WORN IN CONFINED WORKSPACES OR WHERE THE RISK OF SKIN EXPOSURE IS MUCH HIGHER. SAFETY SHOWERS.

Supplemental Safety and

Health: DURING A FIRE ALWAYS STAY AWAY FROM ENDS OF

CONTAINERS DUE TO EXPLOSIVE POTENTIAL. SENSITIVE TO STATIC DISCHARGE.

Physical/Chemical Properties

HCC: F1

Boiling Point: >82.C, 179.6F

B.P. Text: 82-83 C

Melt/Freeze Pt: =-86.C, -122.8F M.P/F.P Text: -86 TO -89 C Vapor Pres: >33.0 @ 20C

Vapor Density: 2.1 Spec Gravity: 0.79

Evaporation Rate & Evaporation R

Solubility in Water: COMPLETE

Appearance and Odor: MOBILE LIQUID, COLOURLESS CLEAR ALCOHOL ODOUR.

Reactivity Data

Stability Indicator: YES

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

SOURCES.

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

ALUMINUM AT HIGH TEMPERATURES.

Hazardous Decomposition Products: VAPOUR FORMS A F

LAMMABLE/EXPLOSIVE MIXTURE

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

Hazardous Polymerization Indicator: NO

Toxicological Information

Toxicological Information: ISOPROPANOL, WHEN ADMINISTERED ORALLY TO RATS AND RABBITS, PRODUCES REDUCED FETAL BODY WEIGHTS IN RATS ONLY AT DOSES WHICH RESULT IN TREATMENT REL

ATED MATERNAL DEATHS AND PRODUCES NO INDICATION OF FET

AL EFFECTS IN RABBITS EVEN AT DOSES WHICH RESULTED IN SIGNIFICANT MATERNAL MORTALITY. ISOPROPANOL PRODUCES NO EVIDENCE OF DEVELOPMENTAL NEUROTOXICITY.

Ecological Information

Ecological: DO NOT ALLOW PRODUCT OR RUNOFF FROM FIRE CONTROL TO ENTER STORM OR SANITARY SEWERS, LAKES, RIVERS, STREAMS, OR PUBLIC WATERWAYS. BLOCK OFF

DRAINS AND DITCHES. PROVINCIAL REGULATIONS REQUIRE AND FEDERA L REGULATIONS MAY REQUIRE THAT ENVIRONMENTAL AND/OR OTHER AGENCIES BE NOTIFIED OF A SPILL INCIDENT. SPILL AREA MUST BE CLEANED AND RESTORED TO ORIGINAL CONDITION OR TO THE SATISFACTION OF AUTHORITIES. MAY BE HARMFUL TO AQUATIC LIFE. AQUATIC TOXICITY RATING (TLM 96) =10 TO 100 PPM. NO FOOD CHAIN CONCENTRATION POTENTIAL.

MSDS Transport Information

Transport Information: CANADIAN TDG DESCRIPTION (ROAD & DESCRIPTION): SHIPPING NAME: ISOPROPANOL, CLASS 3, FLAMMABLE LIQUID, PACKING GROUP II, UN NUMBER 1219.

Regulatory Information

Other Information

Other Information: BIODEGRADABILITY: B

IODEGRADABLE (FAST). RAPID

VOLATILIZATION. NOTE TO PHYSICIAN: IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSION OR UNCONSCIOUSNESS OCCURS BEFORE VOMITING, GASTRIC LAVAGE WITH A CUF FED ENDOTRACHEAL TUBE SHOULD BE CONSIDERED. METABOLISM OF ISOPROPANOL FORMS ACETONE, WHICH MAY BE DETECTED IN THE URINE AND EXPIRED AIR. IN CONTRAST TO DIBETIC ACIDOSIS, ACIDOSIS WILL OCCUR IN THE ABS ENCE OF HYPERGLYCEMIA. HEMODIALYSIS SHOULD BE CONSIDERED IN SEVERE ACUTE INTOXICATIONS.

Transportation Information

Responsible Party Cage: 36131

Trans ID NO: 149186 Product ID: I.P.A. 99

MSDS Prepared Date: 09/10/1997

Review Date: 10/14/1999

MFN: 1

Net Unit Weight: 3 KG Multiple KIT Number: 0

Unit Of Issue: GL Container QTY: 0

Type Of Container: IP3 METAL CAN

Detail DOT Information

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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 Req: B

Detail IMO Information

IMO PSN Code: ITA

IMO Proper Shipping Name: ISOPROPANOL

IMD

G 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 Note Passenger: 305

Max Quant Pass: 5L Max Quant Cargo: 6

0L

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: I.P.A. 99

Cage: 36131 Compan

y 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: 800-661-7378

Label Required IND: Y

Date Of Label Review: 10/14/1999

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

Respiratory Protection IND: YES

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

Hazard And Precautions: THIS PRODUCT IS IRRITAT

ING TO THE EYE BUT IS NOT A PRIMARY SKIN IRRITANT AFTER EXPOSURE TO SHORT DURATION AND IS NOT A SKIN SENSITIZER.

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