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SHELL CHEMICALS CANADA LIMITED -- I.P.A. 99% -- 6810-00-983-8551

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

Product ID:I.P.A. 99% MSDS Date:09/10/1997

FSC:6810

NIIN:00-983-8551

Status Code:A

MSDS Number: CJDSX === Responsible Party ===

Company Name: SHELL CHEMICALS CANADA LIMITED

Address:400-4TH AVE S.W.

Box:4280C

City:CALGARY,ALBERTA T2T 5Z5

State:AB Country:CA

Info Phone Num:800-661-7378

Emergency Phon

e Num:800-661-7378/403-691-2638 Resp. Party Other MSDS Num.:721-100

Preparer's Name: TOXICOLOGY & SAFETY DEPT

CAGE:TO031

=== 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-NF07

CAGE:0A9L8

Company Name: SHELL CHEMICALS CANADA LIMITED

Address:400-4TH AVE S.W.

Box:4280C

City:CALGARY,ALBERTA T2T 5Z5

State:AB Country:CA

Phone:800-661-7378

Contract Num:SP0450-99-M-C534

CA

GE:TO031
======= Composition/Information on Ingredients ========
Ingred Name:IPA CAS:67-63-0 RTECS #:NT8050000 = Wt:100. OSHA PEL:980 MG/M3;400 PPM ACGIH TLV:983 MG/M3;400 PPM ACGIH STEL:1230 MG/M3;500 PPM
========== Hazards Identification ============
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:PROLONGED AND REPEATED CONTACT WITH SKIN CAN CAUSE DEFATTING AND DRYING OF THE SKIN RESULTING IN SKIN IRRITATION AND DERMATITIS. EXPOSURE TO HIGH VAPOR CONCENTRATIONS MAY CAUSE EYE AND RESPIRATORY TRA CT IRRITATION, HEADACHE, DIZZINESS, NAUSEA, INCOORDINATION, DROWSINESS AND LOSS OF CONSCIOUSNESS. ALTHOUGH INGESTION IS UNLIKELY, LIQUID WOULD IRRITATE UPPER DIGESTIVE TRACT IF SWALLOWED. Effects of Overexposure:INGESTION OF THIS PRODUCT MAY CAUSE HEADACHE, DIZZINESS, FATIGUE AND CENTRAL NERVOUS SYSTEM DEPRESSION. Medical Cond Aggrava ted by Exposure:PRE-EXISTING EYE, SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.
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First Aid:EYES-FLUSH WITH WATER FOR 15 MIN. OBTAIN MEDICAL ATTENTION AS SOON AS POSSIBLE AFTER FIRST AID HAS BEEN INITIATED & COMPLETED. INHALATION-REMOVE FROM FUTHER EXPOSURE AND RESTORE BREATHING, IF REQUIRED. OBTAIN MEDICAL ATTENTION. INGESTION-DONOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH IF UNCONSCIOUS. GUARD AGAINST ASPIRATION INTO LUNGS BY TURNING INDIVIDUAL ON THEIR LEFT SIDE. IF VOMITING OCC URS SPONTANEOUSLY KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THELUNGS. OBTAIN MEDICAL ATTENTION IMMEDIATELY. SKIN-START RINSING AND REMOVE CONTAMINATED CLOTHES WHILE RISING. IF IRRITATI ON PERSISTS OBTAIN MEDICAL

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

ATTENTION.

Autoignition Temp:=399.C, 750.2F

Lower Limits: 2.0 Upper Limits: 12.0

Extinguishing Media:DRY CHEMICAL, CO2, ALCOHOL FOAM, WATER FOG Fire Fighting Procedures:DO NOT ENTER CONFINED FIRE SPACE WITHOUT ADEQUATE PROTECTIVE CLOTHING AND APPROVED POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS. USE H20 TO COOL FIRE EXPOSED CONT WHICH MAY EXPLODE. VAPORS M AY BUILD UP IN CONT CAUSING THEM TO RUPTURE COOL WITH H20 AND STAY AWAY FROM ENDS OF CONT DUE TO EXPLOSIVE POTENTIAL.

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

Spill Release Procedures:ISSUE WARNING "FLAMMABLE". ELIMINATE ALL IGNITION SOURCES. ISOLATE HAZARD AREA AND RESTRICT ACCESS. TRY TO WORK UP WIND OF SPILL. AVOID DIRECT CONTACT WITH MATERIAL. REMOVE SATURATED CLOTHING IMMEDIAT ELY YO AVOID FLAMMABILITY HAZARD. WEAR APPROPIATE BREATHING APPARATUS (IF APPLICABLE) & PROTECTIVE CLOTHING. STOP LEAK ONLY IF SAFE TO DO SO. DIKE/CONTAIN LAND SPILLS; CONTAIN WATER SP ILLS BY BOOMING.

Handling and Storage Precautions:FLAMMABLE. STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT AND IGNITION SOURCES. DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILIAR OPERATIONS ON OR NEAR CONTAINERS. VAPOURS MAY ACCUMULATE A ND TRAVEL TO DISTANT IGNITION SOURCE ANDFLASHBACK. USE EXPLOSION PROOF VENTILATION.

Other Precautions: EMPTY CONTAINERS MAY CONTAIN HAZARDOUS PRODUCT RESIDUES.

FIXED EQUIPMENT AS WELL AS TRANSFER CONTAINERS AND EQUIPMENT SHOULD BE GROUNDED TO PREVENT ACCUMULATION OR STATIC CHARGE. HOT SURFACES MAY BE S UFFICIENT TO IGNITE LIQUID EVEN IN THE ABSENCE OF SPARKS OR FLAMES. EXTINGUISH PILOT LIGHTS, CIGARET TES.

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

Respiratory Protection:IF EXPOSURE EXCEEDS OCCUPATIONAL EXPOSURE LIMITS, WEAR A NIOSH-APPROVED RESPIRATOR. USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR

AND AIR-PURIFYING RESPIRATOR FOR

ORGANIC VAPOURS. PROPER EQUIPMENT FOR HIGH CONCENTRATIONS INCLUDES AN ATMOSPHERE SUPPLIED, POSITIVE PRESSURE DEMAND, SELF-CONTAINED OR AIRLINE BREATHING APPARATUS.

Ventilation:MECHANICAL VENTILATION IS RECOMMENDED FOR ALL INDOOR SITUATIONS TO CONTROL FUGITIVE EMISSIONS. ELECTRICAL AND MECHANICAL SHOULD BE EXPLOSION PROOF.

Protective Gloves:IMPERVIOUS GLOVES (VITON, NITRILE) SHOULD BE WORN.

Eye Protection: CHEMICAL SAFETY GLASSES SHOULD BE WORN

Other Protective Equipment:PROVIDE AN EYEWASH STATION IN THE AREA. SAFETY SHOWER SHOULD BE AVAILABLE FOR EMERGENCY USE.IMPERVIOUS CLOTHING (APRON,COVERALLS)SHOULD ALSO BE WORN IN CONFINED WORKSPACES.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. Supplemental Safety and Health

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

HCC:F2

Boiling Pt:B.P. Text:82-83C

Melt/Freeze Pt:M.P/F.P Text:-86- -89C

Vapor Pres:>33.0@20C MMHG

Vapor Density: 2.1 AIR=1

Spec

Gravity:0.79 H20=1 pH:NOT AVAILABLE

Viscosity: NOT AVAILABLE

Evaporation Rate & Reference: 1.44 NBUAC=1

Solubility in Water: COMPLETE

Appearance and Odor: MOBILE LIQUID WITH COLORLESS, CLEAR ALCOHOL ODOUR.

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT WITH STRONG OXIDIZING AGENTS AND ACIDS. ALUMINUM AT HIGH TEMPERATURES.

Stability Condition to Avoid: AVOID EXCESS HEAT, OPEN FLAMES AND ALL IGNITION SOURCES.

Ha

zardous Decomposition Products:VAPOUR FORMS A FLAMMABLE/EXPLOSIVE MIXTURE WITH AIR BETWEEN UPPER AND LOWER FLAMMABLE LIMITS. CARBON MONOXIDE AND CARBON DIOXIDE ARE PRODUCED ON COMBUSTION.
============== Toxicological Information ==============
Toxicological Information:ISOPROPANOL TESTED NEGATIVE IN TWO MUTAGENICITY ASSAYS; THE MOUSE MICRONUCLEUS AND CHINESE HAMSTER OVARY ASSAYS. ISOPROPANOL, WHEN ADMINISTERED ORALLY TO RATS AND RABBITS, PRODUCES REDUCED FETAL BO DY WEIGHTS IN RATS ONLY AT DOSES WHICH RESULTS IN TREATMENT RELATED MATERNAL DEATH.
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Ecological:DO NOT ALLOW PRODUCT OR RUNOFF FROM FIRE CONTROL TO ENTER STORM OR SANITARY SEWERS, LAKES, RIVERS, STREAMS, OR PUBLIC WATERWAYS. MAY BE HARMFUL TO AQUATIC LIFE. AQUATIC TOXICITY RATING (TLM 96)=10 TO 100 PPM. NO FOOD CHAIN CONCENTRATION POTENTIAL.
========= Disposal Considerations ==============
Waste Disposal Methods:WASTE MANAGEMENT PRIORITIES ARE: 1.RECYCLING, 2. ENERGY RECOVERY, 3. INCINERATION, 4. DISPOSAL AT A LICENSED WASTE DISPOSAL FACILITY. DO NOT ATTEMPT TO COMBUST WASTE ON-SITE. INCINERATION AT A LICENSE D WASTE DISPOSAL SITE WITH APPROVAL OF ENVIRONMENTAL AUTHORITY.
========= MSDS Transport Information =============
Transport Information:SHIPPING NAME: ISOPROPANOL, CLASS 3, FLAMMABLE LIQUID, PG II, UN NUMBER 1219.
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