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Product ID:ISOPROPANOL 99 %

MSDS Date:11/05/1997

FSC:6810

NIIN:00-286-5435

MSDS Number: CFMQF === Responsible Party ===

Company Name: BFR INDUSTRIAL SPECIALITIES INC

Address:16391 NORTH CIMRRON ROAD

City:YUKON State:OK ZIP:73099 Country:US

Info Phone Num:405-373-1539 Emergency Phone Num:405-3

73-1539

**CAGE:BFRIS** 

=== Contractor Identification ===

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**CAGE:BFRIS** 

======= Composition/Information on Ingredients ========

Ingred Name: ISOPROPYL ALCOHOL (SARA 313)

CAS:67-63-0

RTECS #:NT8050000 Fraction by Wt: >99%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:400 PPM

ACGIH TLV:400 PPM/500STEL;9596

======= Hazards Identification =

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LD50 LC50 Mixture:TLV 400 PPM

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS,

RESPIRATORY & GI TRACTS. ACUTE- HARMFUL IF INHALED/INGESTED. MAY CAUSE CNS DEPRESSION, HEADACHE. MAY CAUSE EYE IRRITATION. WILL INJURE EYE TISSUE IF NOT REMOVED PROMPTLY. PROLONGED/REPEATED SKIN CONTACT MAY CAUSE DERMATITIS. CAN BE ABSORBED THROUGH SKIN.

CHRONIC-LIVER, KIDNEY EFFECTS.

**Explanation of Carcinogenicity:NONE** 

Effects of Overexposure:IRRITATION, HEADACHE, DIZZINESS, NAUSEA, VOMITING, TEARING, DEFATTING OF SKIN, DERMATITIS

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

First Aid:CALL PHYSICIAN IF SYMPTOMS PERSIST. EYE:IMMED IATELY FLUSH

WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. INHALED:MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:IF CO NSCIOUS, INDUCE VOMITING. CALL A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE FLUID OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.

========== Fire Fighting Measures ==============

Flash Point Method:TCC Flash Point:53.0F,11.7C

Lower Limits:2.0 Upper Limits:12.0

Extinguishi

ng Media:USE WATER FOG, CARBON DIOXIDE, "ALCOHOL" FOAM, OR DRY CHEMICAL. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Fire Fighting Procedures:DO NOT ENTER ANY ENCLOSED OR CONFINED AREA WITHOUT PROPER PROTECTIVE EQUIPMENT AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard: VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

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| <br>Accidental | RAIDACA  | NADDELIEDE  |              |
|                | 17515005 | MEGOMES     |              |

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. CONTAIN AND PICK UP SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND, EARTH, VERMICULITE. GROUND ALL HANDLING EQUIPMENTS. PREVE NT LIQUID FROM ENTERING SEWERS OR WATERWAYS.

Neutralizing Agent: DILUTE WITH WATER

=========== Handling and Storage ================

Handling and Storage Precautions:STORE IN TIGHTLY

**CLOSED CONTAINERS IN** 

FLAMMABLE LIQUID STORAGE ROOM/CABINET. AVOID EXCESSIVE HEAT. KEEP AWAY FROM INCOMPATIBLE MATERIALS.

Other Precautions:AVOID BREATHING VAPORS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. KEEP OUT OF REACH OF CHILDREN.

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

Respiratory Protection:IF TLV IS EXCEEDED OR FOR SYMPTOMS OF OVER EXPOSURE, WEAR NIOSH-APPROVED ORGANIC VAPOR

RESPIRATOR OR SUPPLIED

AIR RESPIRATOR. IN EMERGENCY, WEAR A NIOSH-APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREAT HING APPARATUS.

Ventilation: MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: RUBBER, NEOPRENE FOR REPEATED CONTACT

Eye Protection: SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWERS SHOULD BE AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EX POSURE.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Safety and Health

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

HCC:F3

NRC/State Lic Num: NOT RELEVANT

Boiling Pt:B.P. Text:180F,82C

Vapor Pres:33 @ 68F Vapor Density:2.07 Spec Gravity:0.789

Evaporation Rate & Evaporation R

Solubility in Water: COMPLETE (100%)

Appearance and Odor:

CLEAR, COLORLESS LIQUID - MILD ODOR Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZERS, STRONG ACIDS, ALUMINUM EQUIPMENT ABOVE 120F,
CHLORINE, ACETALDEHYDE, ISOCYANATES, ETHYLENE OXIDE
Stability Condition to Avoid:HIGH HEAT, SPARKS, OPEN FLAMES AND OTHER
SOURCES OF IGNITION

Hazardous Decomposition Products: CARBON MONOXIDE, CARBON DIOXIDE

| ====  |            | Disposal | Considera |
|-------|------------|----------|-----------|
| tions | ========== |          |           |

Waste Disposal Methods:DISPOSE IN AN APPROVED INCINERATOR OR CONTRACT WITH LICENSED CHEMICAL WASTE DISPOSAL SERVICE. DISCHARGE, TREATMENT OR DISPOSAL IS SUBJECT TO FEDERAL, STATE OR LOCAL LAWS. WHEN EMPTY, THROUGHLY RINSE C ONTAINER WITH WATER BEFORE DISPOSAL.

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