

BOUGHT ACCORDING TO SPECIFICAT -- ISOPROPYL ALCOHOL (99%)

MSDS Safety Information

FSC: 6810

NIIN: 00-286-5435

MSDS Date: 10/06/1993

MSDS Num: BRQNP

Product ID: ISOPROPYL ALCOHOL (99%)

MFN: 01

Responsible Party

Cage: 81349

Name: BOUGHT ACCORDING TO SPECIFICATION

Address: DEFENSE GENERAL SUPPLY CENTER

City: RICHMOND VA 23297-5680

Info Phone Number: 804-279-4371

Emergency Phone Number: 804-279-3131

Preparer's Name: DGSC-SSH

Review Ind: Y

Published: Y

Preparer Co. when other than Responsible Party Co.

Cage: 81349

Name: MILITARY SPECIFICATIONS PROMULGATED BY MILITARY

Address: DEPTS/AGENCIES UNDER AUTH OF DEF STD

Box: MANUAL

City: 4120 3-M NK 00000

Contractor Summary

Cage: 81349

Name: MILITARY SPECIFICATIONS PROMULGATED BY MILITARY

Address: DEPTS/AGENCIES UNDER AUTH OF DEF STD

Box: MANUAL

City: 4120 3-M NK 00000

Phone: 804-279-4371 DSN 695-4371

Item Description Information

Item Manager: S9G

Item Name: ISOPROPYL ALCOHOL, TECHNICAL

Specification Number: TT

-I-735A
Type/Grade/Class: GRADE A
Unit of Issue: GL
UI Container Qty: 6
Type of Container: CAN

=====
Ingredients
=====

Cas: 67-63-0
RTECS #: NT8050000
Name: ISOPROPYL ALCOHOL (SARA III)
% Wt: 99
Other REC Limits: NOT ESTABLISHED
OSHA PEL: 400 PPM/500 STEL
ACGIH TLV: 400 PPM/500STEL;9192
=====

Health Hazards Data
=====

=====
LD50 LC50 Mixture: ORAL LD50 (RAT) = 5840 MG/KG
Route Of Entry Inds - Inhalation: YES
Skin: NO
Ingestion: NO
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO
Effects of Exposure: ACUTE: OVEREXPOSURE MAY LEAD TO CNS DEPRESSION. EYE: MAY LEAD TO IRRITATION AND WILL INJURE EYE TISSUE IF NOT REMOVED PROMPTLY. INGESTION: SLIGHT HEALTH HAZARD. CHRONIC: PROLONGED EXPOSURE CAN BE IRRITATING TO MUCOUS MEMBRANES. MAY CAUSE DERMATITIS.
Explanation Of Carcinogenicity: THIS CHEMICAL IS NOT LISTED AS HAVING ANY EVIDENCE OF BEING CARCINOGENIC.
Signs And Symptoms Of Overexposure: INHALATION: DIZZINESS, SHORTNESS OF BREATH, HEADACHES, NAUSEA. EYES: REDNESS, TEARING, BLURRED VISION. INGESTION: NAUSEA, VOMITING.
Medical Cond Aggravated By Exposure: PERSONS WITH SKIN, HEART, RESPIRATORY, OR ANY OTHER MEDICAL CONDITION SHOULD USE CAUTION WHEN HANDLING OR USING THIS PRODUCT.
First Aid: SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION

AS REQUIRED. INHALATION: IMMEDIATELY REMOVE VICTIUM TO FRESH AIR. GIVE OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. G ET PROMPT MEDICAL ATTENTION. EYE: IMMEDIATELY FLUSH WITH WATER FOR 20 MINUTES WITH EYELIDS HELD OPEN. GET PROMPT MEDICAL ATTENTION. INGESTION: GET PROMPT MEDICAL ATTENTION. DO NOT INDUCE VOMITING.

=====
Handling and Disposal
=====

Spill Release Procedures: ELIMINATE ALL SOURCES OF IGNITION. EVACUATE AREA.

VENTILATE AREA. STOP RELEASE. DIKE TO CONTAIN SPILL. WEAR PROPER SAFETY EQUIPMENT. IF AMOUNT IS LARGE, REMOVE LIQUID BY VACUUM. IF SMALL, ABSORB ON INERT MATERIAL. PLACE IN CONTAINER FOR DISPOSAL.

Neutralizing Agent: DILUTE WITH WATER

Waste Disposal Methods: LAND FILL SOLIDS AT PERMITTED SITES. BURN CONCENTRATED LIQUIDS IN SYSTEMS COMPATIBLE WITH WATER SOLUBLE WASTES. AVOID FLAMEOUTS. ASSURE EMISSIONS COMPLY WITH APPLICABLE REGULATIONS. DILUTE AQUEOUS

WASTE

MAY BIODEGRADE. AVOID POISONING PLANTBIOMASS.

Handling And Storage Precautions: STORE IN TIGHTLY CLOSED CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME & STRONG OXIDIZING AGENTS. EMPTY CONTAINERS MAY CONTAIN FLAMMABLE VAPOR.

Other Precautions: DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. MATERIAL MAY ATTACK SOME FORMS OF PLASTIC, ALUMINUM, RUBBER AND COATINGS.

=====

=====
Fire and Explosion Hazard Information
=====

Flash Point Method: CC

Flash Point Text: 53.0F,11.7C

Autoignition Temp Text: 750F

Lower Limits: 2

Upper Limits: 12

Extinguishing Media: DRY CHEMICAL, CARBON DIOXIDE, FOAM FOR ALCOHOLS, WATERSPRAY, WATER FOG

Fire Fighting Procedures: WEAR PROPER PROTECTION AND SCBA TO FIGHT FIRE. USE WATER SPRAY/FOG FOR COOLING FIRE EXPOSED CONTAINERS. FIGHT FIRE FROM SAFE DISTANCE.

Unusual Fire/Explosion Hazard: HEAT MAY BUILD PRESSURE AND RUPTURE CLOSED CONTAINERS. WATER MAY BE INEFFECTIVE IN FIGHTING FIRE DUE TO LOW FLASH POINT. DECOMPOSITION PRODUCTS ARE POSSIBLE.

=====

Control Measures
=====

Respiratory Protection: USE NIOSH/MSHA APPROVED AIR-PURIFYING OR SUPPLIED AIR RESPIRATOR AS APPROPRIATE. IF RESPIRATOR USED; A PROGRAM IN ACCORDANCE WITH

29 CFR 1910.134 MUST BE IMPLEMENTED.

Ventilation: MECHANICAL(GENERAL) EXHAUST RECOMMENDED. NO SPECIAL VENTILATION IS USUALLY REQUIRED TO MEET EXPOSURE STANDARDS.

Protective Gloves: NOT NORMALLY CONSIDERED A SKIN HAZARD.

Eye Protection: CHEMICAL SPLASH GOGGLES &/OR FACESHIELD

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

Work Hygienic Practices: WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOIL

ET FACILITIES. WASH CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health: MSDS MADE BY DGSC-SSH BASED ON OTHER ENTRIES IN AND FEDERAL SPECIFICATION. MANUFACTURER OF PRODUCT IS UNKNOWN AT POINT OF STORAGE AND MSDS IS REQUIRED.

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

HCC: F2

B.P. Text: 180F,82C

M.P/F.P Text: -127F,-88C

Decomp Text: UNKNOWN

Vapor Pres: 33

Vapor Density: 2.1

Spec

Gravity: 0.78

Evaporation Rate & Reference: 1.7(N-BUTYL ACETATE = 1)

Solubility in Water: COMPLETE

Appearance and Odor: CLEAR, COLORLESS LIQUID; ALCOHOL ODOR

Percent Volatiles by Volume: 100

Corrosion Rate: UNKNOWN
=====

Reactivity Data
=====

Stability Indicator: YES

Stability Condition To Avoid: HIGH TEMPERATURES

Materials To Avoid: STRONG OXIDIZING AGENTS, ALUMINUM METAL, OLEUM

Hazardous De

composition Products: INCOMPLETE COMBUSTION MAY YIELD CARBON MONOXIDE AND OTHER TOXIC GASES

Hazardous Polymerization Indicator: NO
=====

Toxicological Information
=====

Ecological Information
=====

MSDS Transport Information
=====

=====
=====
Regulatory Information
=====
=====

Other Information
=====
=====

Transportation Information
=====
=====

Responsible Party Cage: 81349
Trans ID NO: 67
209
Product ID: ISOPROPYL ALCOHOL (99%)
MSDS Prepared Date: 10/06/1993
Review Date: 10/06/1993
MFN: 1
Net Unit Weight: 6.5 LBS
Multiple KIT Number: 0
Review IND: Y
Unit Of Issue: GL
Container QTY: 6
Type Of Container: CAN
Additional Data: UN 1219

=====
Detail DOT Information
=====
=====

DOT PSN Code: HWY
DOT Proper Shipping Name: ISOPROPANOL OR ISOPROPYL ALCOHOL
Hazard Class: 3
UN ID Num: UN1219
DOT Pa
ckaging 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
IMDG Page Number: 3244
UN Number: 1219
UN Hazard Class: 3.2
IMO Packaging Group: II
Subsidiary Risk Label: -
EMS Number: 3-06
ME

D 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: 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 (99%)
Cage: 81349
Company Name: MILITARY SPECIFICATIONS PROMULGATED BY MILITARY
Street: DEPTS/AGENCIES UNDER AUTH OF DEF STD
PO Box: MA
NUAL
City: 4120 3-M NK
Zipcode: 00000
Health Emergency Phone: 804-279-3131
Label Required IND: Y
Date Of Label Review: 10/06/1993
Status Code: C
Label Date: 10/06/1993
Origination Code: G
Chronic Hazard IND: Y
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: FLAMMABLE MATERIAL. CONTAINER MAY EXPLODE IN HEAT OF
FIRE. MAY BE HARMFU

L IF INHALED. CONTACT MAY IRRITATE EYES. STORE IN TIGHTLY
CLOSED CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME & STRONG OXIDIZING
AGENTS. FIRST AID: SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND
WATER. GET MEDICAL ATTENTION AS REQUIRED. INHALATION: IMMEDIATELY REMOVE
VICTIM TO FRESH AIR. GIVE OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. GET
PROMPT MEDICAL ATTENTION. EYE: IMMEDIATELY FLUSH WITH WATER FOR 20 MINUTES
WITH EYELIDS HELD OPEN. GET PROMPT MEDICAL ATTENTION. IN-
GESTION: GET PROMPT
MEDICAL ATTENTION. DO NOT INDUCE VOMITING.

=====
Disclaimer (provided with this information by the compiling agencies): This
information is formulated for use by elements of the Department of Defense.
The United States of America in no manner whatsoever expressly or implied
warrants, states, or intends said information to have any application, use or
viability by or to any person or persons outside the Department o
f Defense
nor any person or persons contracting with any instrumentality of the United
States of America and disclaims all liability for such use. Any person
utilizing this instruction who is not a military or civilian employee of the
United States of America should seek competent professional advice to verify
and assume responsibility for the suitability of this information to their
particular situation regardless of similarity to a corresponding Department
of Defense or other gov
ernment situation.