

-

MATERIAL SAFETY DATA SHEET

Produced by: Ameri-Pac, Inc. Preparation Date: 01/29/04
751 S. 4th Street Replaces: None
St. Joseph, MO 64506 Page: 1 of 3

Technical Contact: Steve Stumpf

Emergency Number (800) 424-9300 Chemtrec
Telephone Number: (816) 233-4530
Chemtrec is available Days, Nights, Weekends, and Holidays

SECTION I PRODUCT IDENTIFICATION

TRADE NAME **ISOPROPYL ALCOHOL 70%**
SYNONYMS IPA, Isopropanol, 2-Propanol, Rubbing Alcohol
FAMILY/CLASSIFICATION A solution of water in isopropanol.
PACKAGE SIZES 1 gallon, 1 quart, 1 pint

SECTION II INGREDIENTS

<u>INGREDIENT</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV/TWA</u>	<u>ACGIH TLV/STEL</u>	<u>WEIGHT%</u>
Isopropyl Alcohol 67-63-0	400 PPM	400 PPM	500 PPM	>69%	
Water					<31%

SECTION III PHYSICAL DATA

APPEARANCE AND ODOR: Colorless liquid with characteristic isopropanol odor.
SPECIFIC GRAVITY: 0.88 at 15°C
BOILING POINT: 180°F
SOLUBILITY: Soluble in Water
VAPOR PRESSURE: 32 @ 68°F (MM HG)
VAPOR DENSITY: 2.1 (Air = 1)
EVAPORATION RATE: 1.0 (N-Butyl Acetate = 1)

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (TCC): 71°F
FLAMMABLE LIMITS /% VOLUME IN AIR Lower: 2 Upper: 13
EXTINGUISHING MEDIUM: Use water fog, foam, dry chemical, or carbon dioxide extinguishing media.

SPECIAL FIREFIGHTING PROCEDURES AND PRECAUTIONS

Warning. Flammable. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves, and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

SECTION V HEALTH DATA

Page 2 of 3

EYE CONTACT	Moderately irritating to the eyes. Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.
SKIN CONTACT	Moderately irritating to the skin. Flush skin with water. If irritation occurs, get medical attention.
INHALATION	May cause mild irritation to the nose, throat, and respiratory tract and may result in central nervous system (CNS) depression. Remove victim to fresh air and provide oxygen if breathing is difficult. Get medical attention.

ISOPROPYL ALCOHOL 70%

SECTION V HEALTH DATA – CONT.

INGESTION	Irritating to the gastrointestinal tract, causing abdominal pain and vomiting, sometimes bloody. Ingestion may cause CNS depression, low blood pressure, rapid heart beat, and liver damage. Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 30cc (2 tablespoons) syrup of ipecac.* If ipecac is not available, give 2 glasses of water and induce vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Get medical attention.
SIGNS AND SYMPTOMS	Irritation as noted above. Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness, and nausea; in extreme cases, unconsciousness, respiratory depression, and death may occur. Liver damage may be evidenced by loss of appetite, jaundice (yellowish skin color), and sometimes pain in the upper abdomen on the right side.
*NOTE TO PHYSICIAN	If victim is a child, give no more than 1 glass of water and 15cc (1 tablespoon) syrup of ipecac. If symptoms such as a loss of gag reflex, convulsions, or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

SECTION VI REACTIVITY DATA

STABILITY:	Stable.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon monoxide and unidentified organic compounds may be formed during combustion.
HAZARDOUS POLYMERIZATION:	Does not occur.
CONDITIONS AND MATERIALS TO AVOID:	Avoid heat, sparks, flame, and contact with strong oxidizing agents. Do not store or handle in aluminum equipment at temperatures above 120°F.

SECTION VII SPECIAL PROTECTION

RESPIRATORY PROTECTION:	None required for normal use. Use adequate ventilation and vapor respirator when exposed to large volumes for a prolonged period of time.
EYE PROTECTION:	Chemical safety glasses or goggles.
PROTECTIVE CLOTHING:	None required for normal use. Cover any exposed skin. Chemical resistant gloves are recommended.
VENTILATION TYPE:	Local ventilation to control mist or vapors (if generated).

SECTION VIII ENVIRONMENTAL AND DISPOSAL INFORMATION

SPILL AND LEAK PROCEDURE: Do not touch with bare hands. Shut of leak and dike up spills. Ventilate spill area. Absorb with an inert material such as earth, sand, or vermiculite. Sweep up and dispose of in accordance with Federal, State, and Local regulations.

WASTE DISPOSAL: Dispose of in accordance with Federal, State, and Local regulations.

CONTAINER DISPOSAL: Dispose of in licensed facility.

SECTION IX HANDLING AND STORAGE

Store at 2°C to 30°C (36°F to 86°F).
DOT Hazard Classification: Flammable Liquid UN 1218

NOTICE

THE DATA HEREIN IS BASED ON INFORMATION THAT AMERI-PAC BELIEVES TO BE RELIABLE, BUT NO EXPRESSED OR IMPLIED WARRANTY IS MADE WITH THE REGARD TO THE ACCURACY OF SUCH DATA OR ITS SUITABILITY FOR A GIVEN SITUATION. SUCH DATA RELATES ONLY TO THE SPECIFIC PRODUCT DESCRIBED AND NOT TO SUCH PRODUCT IN COMBINATION WITH ANY OTHER PRODUCT. AMERI-PAC, INC. DISCLAIMS ALL LIABILITY FOR ANY ACTIONS TAKEN OR FOREGONE ON RELIANCE OF SUCH DATA.

Preparation Date: 01/29/04
Replaces: None
Page: 3 of 3