

Humco Holding Group, Inc.
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Item #0395-1245

ISOPROPYL ALCOHOL 50%

DATE ISSUED: 03/14/01

SECTION I HAZARDOUS PRODUCT/INGREDIENT PER 20 CFR 1910.1200

NO. COMPOSITION CAS NUMBER PERCENT

P Isopropyl Alcohol 50% Mixture 100%

1 Isopropyl Alcohol 67-63-0 50%

SECTION II ACUTE TOXICITY DATA

NO. ACUTE ORAL LD50 ACUTE DERMAL LD50 ACUTE INHAL. LC50

1 5840 mg/kg (rats) 13000 mg/kg (rabbit) 12000 ppm (rat)
8 Hours

SECTION III PHYSICAL DATA

Boiling Point: (Deg F) 81°C

Melting Point: (Deg F) -127

Specific Gravity: (H2O=1) 0.929 20/20°C

Solubility: (In water) complete

Vapor Pressure: (MM HQ) 29 at 20°C

Vapor Density: (Air=1) 1.6

Evaporation Rate (N-Butyl Acetate=1): 1.7

Appearance and Odor: Colorless, mobile liquid with mild odor.

SECTION III A DEGREE OF HAZARD

Degree of Hazard

4 - Extreme Flammability 3

3 - High Health 1

2 - Moderate Reactivity 0

1 - Slight Special Hazard 0

0 - Insignificant

SECTION IV FIRE AND EXPLOSION HAZARDS

Flash Point and Method: 74.5°F Tag Open Cup

Extinguishing Media: Use water fog, alcohol foam, dry chemical CO₂.

Special Firefighting Procedures and Precautions: **Warning - Flammable.** Clear fire area of unprotected personnel. **Do not** enter confined space without full bunker gear (helmet with full face shield, bunker coat, 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 should be cooled with water to prevent vapor pressure build up which could result in a rupture. Container area exposed to direct flame contact should be cooled with large amounts of water, as needed to prevent weakening of container structure.

Flammable Limits/% Volume in Air:

Lower: 2.0

Upper: 12.0

SECTION V HEALTH HAZARD INFORMATION

OSHA PEL/TWA 400ppm

ACGIN TLV/TWA 400ppm

ACGIN TLV/STEL 500ppm

Carcinogen: 50% odor recognition threshold is 7.5 ppm

Inhalation: May cause mild irritation to the nose, throat, and respiratory tract and may result in central nervous system (CNS) depression.

Skin Contact: May cause mild skin irritation.

Skin Absorption: May cause mild skin irritation.

Eye Contact: Moderately irritating to the eyes.

Ingestion: Generally considered to have a low order of acute oral toxicity.

Acute: Irritation as noted above. Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness and nausea.

Chronic: Pre-existing skin, eye, and respiratory disorders may be aggravated by exposure to IPA.

SECTION VI EMERGENCY AND FIRST AID PROCEDURES

Eyes: Immediately flush with large amounts of water for at least 15 minutes while holding eyelids open. Seek medical attention.

Skin: Wash thoroughly with water. If irritation occurs, get medical attention.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Obtain medical attention.

Ingestion: Do not induce vomiting if victim is unconscious or drowsy. Otherwise, if within the **first 15 minutes** give no more than 2 glasses of water, and 30cc Syrup of Ipecac to induce vomiting. Obtain medical attention immediately or call poison control center.

Note to Physician: If victim is a child, give no more than 1 glass of water and 15cc (1 tbsp.) Syrup of Ipecac. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

SECTION VII REACTIVITY

Stability: Stable

Hazardous Polymerization: Will 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.

Hazardous Decomposition Products: Carbon Monoxide and unidentified organic compounds may be formed during combustion.

SECTION VIII EMPLOYEE PROTECTION

Control Measures: Use explosion-proof ventilation as required to control vapor concentrations. Eye wash fountains and safety showers should be available for emergency use.

Respiratory Protection: If exposure may or does exceed occupational exposure limits (Sec. V), use a NIOSH-approved respirator to prevent overexposure. In accordance with 29CFR1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

SECTION VIII EMPLOYEE PROTECTION Cont'd

Protective Clothing: Avoid prolonged or repeated contact with skin. Wear chemical-resistant gloves and other clothing as required to minimize contact. Test data from published literature and/or glove and clothing manufacturers indicate the best protection is provided by nitrile, neoprene and natural rubber gloves.

Eye Protection: Avoid contact with eyes. Wear chemical goggles if there is likelihood of contact with eyes.

SECTION IX ENVIRONMENTAL PROTECTION

Spill or Leak Procedures: Warning - Flammable. Eliminate all ignition sources. Equipment must be grounded to prevent sparking. **Large spills** - evacuate the area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak, if safe to do so. Dike and contain. **Small spills** - take up with absorbent material and place in non-leaking containers. Seal tightly for disposal.

Waste Disposal: Under E.P.A.-R.A.C.A. (40CFR261.21), if this product becomes a waste material, it would be ignitable hazardous waste, hazardous waste number D001. Refer to latest E.P.A. or state regulations regarding proper disposal.

Environmental Hazards: Under E.P.A. comprehensive environmental response, compensation and liability act, under E.P.A.-CERCLA (Superfund) releases to air, land, or water may be reportable to the National Response Center, 1-800-424-8802, (circumstances surrounding the release and cleanup determine reportability).

SECTION X SPECIAL PROTECTION INFORMATION

Ventilation Requirements: Use explosion-proof ventilation as required to control vapor concentrations.

Other Clothing and Equipment: Eye wash fountains and safety showers should be available for emergency use.

Eye: Refer to Section VIII.

Respiratory: Refer to Section VIII.

SECTION XI TRANSPORTATION DATA

HAZARDOUS CHARACTERISTICS: Flammable Liquid

D.O.T. Classifications: Flammable Liquid N.O.S. Contains Isopropanol UN1993