

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078696277

N/A

MATERIAL SAFETY DATA SHEET  
VEDCO ISOPROPYL ALCOHOL 70% GALLONS

SECTION 1 PRODUCT INFORMATION

Manufacturer: Bingman Laboratories Inc.  
Address: Sarahsville OH 43779

Emergency Telephone Number: 614-732-2295

Trade name and synonyms: N/A

Chemical name and synonyms: Isopropanol

Chemical Family: Alcohol

Formula:

SECTION 2 HAZARDOUS INGREDIENTS

Isopropyl Alcohol 70%

Water

SECTION 3 PHYSICAL DATA

Boiling Point (\*F): 190°F

Vapor Pressure (mm Hg): 25-68°F

Vapor density (air=1): 1.6°

Solubility in water: Complete

Appearance and odor: Colorless, mobile liquid, mild odor

Specific Gravity(h20=1): 0.85

Percent volatile by volume(%) N/A

Evaporation rate: 0.7 Estimated

SECTION 4 FIRE AND EXPLOSION HAZARD DATA

Flash Point (method used): Apx. 77°F

Flammable Limits: Lower 2 Upper 12

Extinguishing media: Use water fog, "Alcohol" Foam, dry chemical or CO2

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 containers structure.

Special Fire Fighting Procedures: 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.

SECTION 5 HEALTH HAZARD DATA

Threshold limit value:

Effects of overexposure Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. Impaired liver function from preexisting disorders may be aggravated by exposure to this product.

Emergency First Aid Procedures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Get medical attention.

Skin: Flush skin with water. If irritation occurs. Get medical attention.

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

Ingestion: 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 20cc (2 tablespoons) syrup of IPECAC. If ipecac is unavailable. 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.

## SECTION 6 REACTIVITY DATA

Stability: Stable(xx)Unstable ( )

Incompatibility( materials to avoid): Strong oxidizing agents

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

Hazardous polymerization: Will occur ( )will not occur(xx)

Conditions to avoid: Avoid heat, sparks, flame and contact with strong oxidizing agents.

## SECTION 7 SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking \*\*\*Large Spills\*\*\* Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak only if safe to do so. Dike and contain. If vapor cloud forms. Water fog may be used to suppress; contain run-off remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other material; place in non-leaking container for proper disposal. Flush area with water to remove trace residue; Dispose of flush solutions as above. \*\*\*Small Spills\*\*\* Take up with an absorbent material and place in non-leaking containers; Seal tightly for proper disposal.

Waste disposal method: N/A

## SECTION 8 SPECIAL PROTECTION INFORMATION

Respiratory protection If exposure may or does exceed occupational exposure limits use a NIOSH-approved respirator to prevent overexposure. Use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

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

Protective gloves: Wear chemical resistant gloves and other clothing as required to minimize contact.

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

Other protective equipment: Eye wash fountains and safety showers should be available for emergency use.

## SECTION 9 SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing: Keep liquid and vapors away from heat, sparks, and flame. Surfaces that are sufficiently hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, Cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

Other precautions: Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse. Air-dry contaminated clothing in a well ventilated area before laundering.

NOTE;

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## Safety Data Sheet

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### 1. Identification

1.1 Product identifier: Isopropyl Alcohol 70%

1.2 Other means of identification: Isopropanol 70%

1.3 Recommended use and restrictions on use:

For external use as topical antiseptic. This product is not for human consumption. Refer to safety data sheet regarding safety, usage, applications, hazards, procedures and disposal of this product before use.

1.4 Manufacturer: Ameri-Pac, Inc.  
745 S. 4<sup>th</sup> St.  
St. Joseph, MO 64501  
Phone: 816-233-4530  
800-373-6156

1.5 Emergency Number (800) 424-9300 Chemtrec  
Chemtrec is available Days, Nights, Weekends, and Holidays

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### 2. Hazard Identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids - category 1

Skin irritation - category 3

Eye irritation - category 2A

Specific target organ toxicity - single exposure - category 3 – Central Nervous System

2.2 GHS Label Elements

Signal Word: Danger

Hazard Statements:

H224 Extremely flammable liquid and vapor

H316 Causes mild skin irritation

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness.

Pictograms:



Precautionary Statements:

Store in secured/locked area in cool dry conditions in a well-ventilated area.

Keep container tightly closed.

Keep container away from heat and sources of ignition.

Use non-sparking tools and take precautionary measures against static discharge.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/eye protection/face protection/protective clothing.

Avoid breathing dust/fumes/gas/mist/vapors/spray.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Avoid release into environment.

If on skin: remove contaminated clothing immediately and wash thoroughly with water.

If exposed seek medical advice/attention.

If swallowed call poison control center/doctor.

If in eyes: rinse cautiously with water for at least 15 minutes. Remove contact lenses.

Remove contaminated clothing and launder before reuse.

Dispose of contents/container in accordance with all state, local and federal regulations.

2.3 Hazards not otherwise classified: None

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### 3. Composition/Information on Ingredients

3.1 Name: Isopropyl alcohol 70%

3.2 Common name/synonyms: Isopropanol 70%  
2-propanol 70%  
70% isopropyl alcohol solution

3.3 Hazardous components and concentrations in the mixture:

Component	CAS Registry Number	Amount (%)
Isopropyl alcohol	67-63-0	> 69%

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### 4. First-Aid Measures

4.1 Necessary Measures

Skin: Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse.  
If irritation develops, seek medical attention.

Eyes: Immediately rinse eyes with running water for a minimum of 15 minutes.  
Seek medical attention.

Ingestion: Do not induce vomiting unless directed to do so by a medical professional.  
Contact the poison control center.  
Never give fluids or induce vomiting if the victim is unconscious or having convulsions.  
Seek medical attention.

Inhalation: Move to fresh air. Aid in breathing if necessary. Seek medical attention.

#### 4.2 Symptoms and Effects:

Isopropyl alcohol: Effects of exposure include dizziness, headache, confusion, stupor, and in cases of severe over exposure, coma. Ingestion may result in gastroenteritis with vomiting, hematemesis and diarrhea. Aspiration may result in pneumonia. Exposure may cause irritation of the eyes and respiratory tract.

#### 4.3 Indication of immediate medical attention and special treatment needed: Refer to section 4.1

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### 5. Fire-fighting Measures

5.1 Suitable extinguishing media: Alcohol foam, carbon dioxide, dry chemical, or water spray

5.2 Specific hazards arising from the chemical: Carbon oxides

5.3 Special protective equipment and precautions for fire-fighters: Use approved self-contained breathing apparatus with full facemask and full protective equipment in confined areas. Use water to keep fire-exposed containers cool.

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### 6. Accidental Release Measures

6.1 Personnel precautions, protective equipment and emergency procedures:

Avoid sources of heat, sparks, and open flame.

Use local exhaust to control vapors and mists.

Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Methods and materials for containment and cleanup:

Prevent further leakage or spillage if safe to do so.

Do not let product enter drains.

Discharge into the environment must be avoided.

Keep in suitable, closed containers for disposal.

For disposal see section 13.

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### 7. Handling and Storage

7.1 Precautions for safe handling:

Practice good industrial hygiene when handling this product.

Avoid inhalation of dust, vapor and mist.

Use explosion-proof equipment.

Keep away from sources of ignition.

Do not smoke while handling or near the product.

Take measures to prevent the buildup of electrostatic charge.

For precautions see section 2.2

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Keep away from sources of ignition.

Incompatibilities:

Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids

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## 8. Exposure controls/Personal Protection:

### 8.1 Components with workplace control parameters:

Component	CAS No.	Value	Control parameters	
Isopropyl alcohol	67-63-0	TWA	200 ppm	ACGIH Threshold Limit Values (TLV)
		TWA	400 ppm	OSHA Table Z-1
		ST	500 ppm	NIOSH Recommended Exposure Limits (REL)

### 8.2 Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday. When at all possible, institute controls to minimize the exposure and risk of exposure by all means of contact.

### 8.3 Individual protection measures

Eye/Face Protection:

Select tightly fitting safety goggles, safety glasses or faceshield (8-inch minimum) as appropriate. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.

Skin Protection:

Handle with gloves. Select gloves which are compatible with components listed in this mixture. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good industrial hygiene practices. Wash and dry hands.

Body Protection:

Flame retardant antistatic protective clothing and the type of protective equipment must be selected according to the concentration and the amount of the dangerous substance at the specific workplace.

Respiratory Protection:

Where risk assessment shows air-purifying respirators are appropriate, use a full face respirator, dust mask or half-respirator with the appropriate respirator cartridges or filters as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH. Respirators must be selected with consideration to assessment of risk and in accordance with 29 CFR 1910.134.

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## 9. Physical and Chemical Properties

### 9.1 Appearance:

Physical State: Liquid

Color: Clear and colorless

### 9.2 Odor: Characteristic of isopropyl alcohol

### 9.3 Odor threshold: No data available



- 9.4 pH: No data available
  - 9.5 Melting point/freezing point: No data available
  - 9.6 Initial boiling point and boiling point range: Initial boiling point -180°F
  - 9.7 Flash point: 71°F
  - 9.8 Evaporation rate: 1.0 (N-Butyl Acetate = 1)
  - 9.9 Flammability: No data available
  - 9.10 Flammable limits/% volume in air: Lower – 2 , Upper - 13
  - 9.11 Vapor pressure: 32 mm Hg at 68°F
  - 9.12 Vapor density: 2.1 (Air = 1)
  - 9.13 Relative density: No data available
  - 9.14 Solubility: Soluble in water
  - 9.15 Partition coefficient: No data available
  - 9.16 Auto-ignition temperature: No data available
  - 9.17 Decomposition temperature: No data available
  - 9.18 Viscosity: No data available
  - 9.19 Specific Gravity: 0.872-0.883 g/mL at 20°C
  - 9.20 Bulk Density: No data available
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## **10. Stability and Reactivity**

- 10.1 Reactivity: No data available
  - 10.2 Chemical stability: Stable at normal operating temperatures
  - 10.3 Possibility of hazardous reactions: Vapors may form explosive mixtures with air
  - 10.4 Conditions to avoid: Heat, flames, sparks, extremes of temperature and direct sunlight
  - 10.5 Incompatible materials: Oxidizing agents, Acid anhydrides, Aluminium, Halogenated compounds, Acids
  - 10.6 Hazardous decomposition products: In the event of a fire – see section 5.
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## 11. Toxicological Information:

- 11.1 Likely routes of exposure:  
Inhalation, skin contact and eye contact are likely. Ingestion is possible, but less likely.
- 11.2 Symptoms related to physical, chemical and toxicological characteristics: Refer to section 4.2
- 11.3 Delayed and immediate effects and also chronic effects from short- and long-term exposure: Refer to section 4.2
- 11.4 Numerical measures of toxicity: This mixture has not been tested for health effects or toxicity as a whole. Information for each ingredient is provided below. The GHS classification for this product has been calculated from the values of components in this mixture.

### Acute toxicity:

No data available

### Skin corrosion/irritation:

Isopropyl alcohol: Skin - Rabbit Result: Mild skin irritation

### Serious eye damage/irritation:

Isopropyl alcohol: Eyes - Rabbit Result: Eye irritation - 24 h

### Respiratory or skin sensitization:

No data available

### Germ cell mutagenicity:

No data available

### Reproductive toxicity:

No data available

### Specific target organ toxicity – single exposure:

Isopropyl alcohol - Inhalation, Oral - May cause drowsiness or dizziness

### Specific target organ toxicity – repeated exposure:

No data available

### Aspiration hazards:

No data available

### Carcinogenicity:

This product does not contain any compounds that are classifiable to carcinogenicity based on NTP, ACGIH, IARC, or OSHA classification.

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## 12. Ecological Information:

This product has not been tested for the ecological considerations listed below. The information and data for components are listed individually for areas of ecological consideration below.

- 12.1 Ecotoxicity: No data available
- 12.2 Persistence and degradability: No data available

- 12.3 Bioaccumulative potential: No data available
  - 12.4 Mobility in soil: No data available
  - 12.5 Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal
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### 13. Disposal Consideration

- 13.1 Product  
Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Determine waste status prior to disposal in accordance with federal, state and local regulations.
  - 13.2 Contaminated packaging  
Dispose of as unused product
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### 14. Transport Information

Note: The shipping classification in this section is meant as a guide to overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under 49 CFR, IATA and IMDG to assure regulatory compliance.

DOT (US)  
UN Number: 1219  
UN proper shipping Name: Isopropanol  
Transport hazard class: 3  
Packaging group: II

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### 15. Regulatory Information

- 15.1 SARA 302 components:  
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
- 15.2 SARA 313 components:  
This material contains Isopropyl alcohol (CAS# 67-63-0, 70.0%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.
- 15.3 SARA 311/312 hazards:  
Acute health hazard, Chronic health hazard, Fire hazard
- 15.4 New Jersey Right to Know components:  
2-Propanol (Isopropyl alcohol)
- 15.5 Pennsylvania Right to Know components:  
2-Propanol (Isopropyl alcohol)
- 15.6 Massachusetts Right to Know components:  
2-Propanol (Isopropyl alcohol)

- 15.7 California Prop. 65 components:  
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
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## **16. Other Information**

- 16.1 Preparation information:  
Revision: Original  
Revision date: 3/10/2015  
Approval date: 3/24/2015  
Replaces revision: None  
Replaces revision date: None  
SDS code: CE027
- 16.2 Further information:  
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions. No expressed or implied warranty is made with regard to the accuracy of such data or its suitability for a given situation. Such data relates only to the specific product and not to such product in combination with any other product. Ameri-Pac, Inc. disclaims all liability for actions taken for forgone reliance of such data.