

Safety Data Sheet

Hand Sanitizer - Isopropyl Alcohol Antiseptic 75% Topical Solution

SECTION I - IDENTIFICATION



**Research
Solutions**

Research Solutions Group, Inc.
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Pelham, AL 35124
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Product Number 110080 (IPA)
Product Name Hand Sanitizer - Isopropyl Alcohol Antiseptic 75% Topical Solution
Chemical Family Solvent Blend
CAS Number Multiple
Date Prepared 3/23/2020
Revision Date 4/15/2020
Recommended Use FDA/WHO Approved Formulation

SECTION II - HAZARDOUS IDENTIFICATION

GHS CLASSIFICATION:

Classification

Flammable Liquids

Category 2

Serious Eye Damage/Eye Irritation

Category 2A

DANGER!

GHS LABEL:



Hazard Statements

H225 Highly flammable liquid and vapor

H319 Causes serious eye irritation

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Precautionary Statements

| | |
|--------------|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames, and other ignition, sources. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting/equipment, etc. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures to prevent static discharge. |
| P264 | Wash hands and exposed body parts thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P303+361+353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water or shower. |
| P305+351+338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so - continue rinsing. |
| P337+313 | If eye irritation persists get medical advice/attention. |
| P370+378 | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. |
| P403+235 | Store in a well ventilated place. Keep cool. |
| P501 | Dispose of contents/container to an approved waste disposal facility. |

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

The precise composition of this product is proprietary information. In the event of a medical emergency, a complete disclosure will be provided to medical personnel.

| Component Name | CAS # | Component% | OSHA PEL | ACGIH TLV |
|-------------------|-----------|------------|--------------------------|----------------------|
| Glycerin | 56-81-5 | <2% | 15 mg/m ³ TWA | 10 mg/m ³ |
| Hydrogen peroxide | 7722-84-1 | <0.2% | 1.0 ppm | 1.0 ppm |
| Water | 7732-18-5 | 20-30% | Not Established | Not Established |
| Isopropyl Alcohol | 67-63-0 | 70-80% | 400 ppm | 200ppm (TWA) |

SECTION IV - FIRST AID MEASURES

Contact with eyes: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for 15 minutes. Seek immediately medical attention.

Skin contact: No skin irritation is expected under normal use. May be irritating to skin if prolonged or repeated contact occurs. If irritation develops, discontinue use. If irritation occurs and persists, get medical attention.

Inhalation: Remove victim to fresh air. Administer oxygen or artificial respiration if breathing is affected or stopped. Seek immediate medical attention.

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Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION V - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Water fog, foam, CO₂, dry chemical.

Special Fire Fighting Procedures Use self-contained breathing apparatus and full bunker gear in fire areas. Evacuate all unprotected personnel from area. Keep containers cool with water fog to minimize swelling taking care not to spread flames with water used for cooling.

Unusual Fire Fighting Hazards: Product is flammable and may be ignited by heat, sparks, flames or other sources of ignition (e.g., static electricity, pilot lights or mechanical/electrical equipment). Vapors are heavier than air and may accumulate in low areas. Vapors may travel considerable distance to a source of ignition where they can ignite, flashback or explode. May create vapor/air explosion hazard indoors, outdoors or in sewers. If container is not properly cooled, it can explode in the heat of a fire.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep all sources of ignition and hot metal surfaces away from spill or release.
Evacuate all unprotected personnel from the area.

Environmental Precautions: Prevent liquid from entering drains, sewers or waterways.
Contain spill if it can be done with minimal risk.
Notify proper authorities.

Methods for Cleaning Up: Use foam on spills to minimize vapors.
Using only non-sparking tools and explosion proof equipment, collect spill on absorbent material and put into approved container.

SECTION VII - HANDLING AND STORAGE

Handling and Storage:

- Avoid inhalation of vapor or mist.
- NFPA Class I storage.
- Vent container carefully before opening.
- Bond and ground all equipment when transferring from one vessel to another. The use of explosion-proof equipment is recommended.
- "Empty" containers retain residue and/or vapor and may be dangerous. Do not cut, weld, braze solder, drill, grind or expose such containers to heat, flames, sparks, or other ignition sources.
- Keep containers tightly closed when not in use.
- Avoid contact with eyes.

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SECTION VIII - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:

| Component Name | CAS # | OSHA PEL | ACGIH TLV |
|-------------------|-----------|--------------------------|----------------------|
| Glycerin | 56-81-5 | 15 mg/m ³ TWA | 10 mg/m ³ |
| Hydrogen peroxide | 7722-84-1 | 1.0 ppm | 1.0 ppm |
| Water | 7732-18-5 | Not Established | Not Established |
| Isopropyl Alcohol | 67-63-0 | 400 ppm | 200ppm (TWA) |

Engineering Controls: Adequate local or mechanical to reduce vapor or mist to below the PEL or TLV.

Monitoring: Follow accepted work practices for handling a flammable material.
Do not eat, drink or smoke in areas where this chemical is used or stored.
Have eye wash stations and safety showers readily available.

Personal Protective Equipment (PPE)

Eye Protection: Goggles or approved OSHA device with side shields; do not wear contact lenses when handling this product.

Skin Protection: None necessary under normal conditions of use. Wear appropriate gloves if handling large quantities

Respiratory Protection: Use the proper respirator in areas where the chemical exposure is unknown or above the OSHA PEL or ACGIH TLV.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------|-------------------------|
| Appearance | Clear, Colorless Liquid |
| Odor | Strong Alcohol Odor |
| pH@25°C | No data available |
| Melting/Freezing Point | No data available |
| Flashpoint | 66°F, TCC |
| Specific Gravity | 0.859 |
| Solubility | Complete |
| Auto-Ignition Temperature | No data available |
| Decomposition Temperature | No data available |
| VOC Content | 70% (4.9#/gal) |
| Odor Threshold | No data available |
| Boiling Range | 180-212°F |
| Evaporation Point | No data available |
| Flammable Limits - Upper | 8.9% |
| Flammable Limits - Lower | 1.4% |
| Vapor Pressure | 28.0 mmHg @ 20°F |
| Vapor Density (Air=1) | 1.7 (Air=1) |
| Viscosity | No data available |

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SECTION X - STABILITY AND REACTIVITY

- Stability:** Stable, under normal conditions of storage and handling.
- Conditions to Avoid:** Extreme heat and ignition sources.
- Hazardous Decomposition/Byproducts:** Oxides of carbon and various hydrocarbons under extreme fire conditions.
- Hazardous Polymerization:** Will not occur.
- Polymerization Conditions to Avoid:** None
- Incompatibilities:** Strong Oxidizers and Alkali Metals

SECTION XI - TOXICOLOGICAL INFORMATION

- Likely Route of Exposure:** Contact and inhalation; ingestion possible.
- Inhalation:** May cause irritation to the upper respiratory tract and CNS depression.
- Eye Contact:** Causes eye irritation including stinging, watering and redness which may result in corneal injury.
- Skin Contact:** No effects expected under normal conditions of use. Prolonged skin contact may cause temporary irritation.
- Ingestion:** Aspiration hazard. Can enter the lungs during swallowing or vomiting and cause chemical pneumonia and edema.
- Acute Toxicity Value:** See Health Hazards below.
- Chronic (Long Term) Effects:** See Health Hazards above.

Toxicity:

| Component Name | LD50 | LC50 |
|-------------------|--|---|
| Glycerin | Oral - mouse - 4090mg/kg; Oral - rabbit - 27 mg/kg; Oral - rat - | Inhalation - rat - 1H/> 570 mg/m ³ |
| Hydrogen peroxide | Oral - rat - 415 mg/kg - Dermal - rabbit - >5000 mg/kg | Inhalation - rat - > 0.17 mg/l |

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| | | |
|-------------------|--|------------------------------------|
| Water | Not Established | Not Established |
| Isopropyl Alcohol | Oral - Rat - 5,045 mg/kg - Dermal - Rabbit - 12,800 mg/kg | Inhalation - Rat - 8 h - 16000 ppm |

| | |
|---------------------------------|----------------------------|
| Reproductive Effects | Not Applicable |
| Teratogenicity | Not Applicable |
| Mutagenicity | Not Applicable |
| Embryotoxicity | Not Applicable |
| Sensitization to Product | Not Applicable |
| Synergistic Products | Not Applicable |
| Carcinogenicity | Not Listed as a Carcinogen |

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity: Information not available.

Mobility: Information not available.

Degradability: Information not available.

BioAccumulation: Information not available.

SECTION XIII - WASTE DISPOSAL CONSIDERATIONS

Follow Federal, State and local regulations.

SECTION XIV - TRANSPORT INFORMATION

DOT SHIPPING INFORMATION

Proper Shipping Name: Alcohols, N.O.S.
Contains: Isopropyl Alcohol
Hazard Class and Label: 3
Identification Number: UN 1987
Packaging Group: III
Other Shipping Info:

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SECTION XV - REGULATORY INFORMATION

TSCA STATUS:..... The components of this product are listed on the TSCA Inventory

SARA TITLE III SECTION 302/304 EXTREMELY HAZARDOUS SUBSTANCE:

| Component Name | CAS # | % by wt. | RQ (lbs.) | TPQ (lbs.) |
|-------------------|-----------|----------|-----------|------------|
| Hydrogen peroxide | 7722-84-1 | <0.2% | 1,000 | 1,000 |

SARA TITLE III SECTION 311/312 HAZARD CATEGORIZATION:

| Acute | Chronic | Fire | Pressure | Reactive |
|-------|---------|------|----------|----------|
| X | X | X | | |

SARA TITLE III SECTION 313 SUPPLIER INFORMATION:

No chemicals in this material are subject to the reporting requirements.

CERCLA SECTION 102(a) HAZARDOUS SUBSTANCE:

No chemicals in this material are subject to the reporting requirements.

CALIFORNIA PROPOSITION 65:

No chemicals in this material are subject to the reporting requirements.

SECTION XVI - OTHER INFORMATION

HMIS Health: 1

HMIS Flammability: 3

HMIS Reactivity: 0

Additional:

Specification Information

Department issuing data sheet: Compliance Department

Email address: tech.service@researchsolutionsgroup.com

Training necessary: Training is required per the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 29 CFR 1910.1200.

Disclaimer:

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** HMIS rating involve data and interpretations that vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this product, all the information contained in this SDS must be considered.

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