

SAFETY DATA SHEET



1. IDENTIFICATION

Product identifier

Product Name Handy-San

Other means of identification

Synonyms Hand Sanitizer

Address:

Ridgway Industries, Inc.
P.O. Box 660
Darby, PA 19023

Emergency telephone number

Emergency Phone Number 610-259-8940

2. HAZARDS IDENTIFICATION

Classification

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

| | |
|--------------------------------|-------------|
| Flammable liquids | Category 2 |
| Eye Irritation | Category 2A |
| Specific target organ toxicity | Category 3 |

Signal word

Warning

Hazard statements

Highly flammable liquid and vapor
Causes serious eye irritation



Appearance Clear, colorless

Physical State Thin liquid

Odor Alcohol

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.

Precautionary Statements - Response

If on skin (or hair): Wash contaminated clothing before reuse.
In case of fire: Use dry chemical, carbon dioxide (CO₂), foam, or water spray to extinguish.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool.

Precautionary Statements - Disposal

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

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| 3. COMPOSITION/INFORMATION ON INGREDIENTS |
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| Chemical Name | CAS No. | Weight % | Trade Secret |
|-------------------|---------|----------|--------------|
| Isopropyl alcohol | 67-63-0 | 72-80 | * |

* The exact percentage (concentration) of composition has been withheld as a trade secret.

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| 4. FIRST AID MEASURES |
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First aid measures

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| General Advice | Show this safety data sheet to the doctor in attendance. |
| Eye Contact | If in eyes, rinse slowly and gently with water for 15–20 minutes. If present, remove contact lenses. Call a poison control center or doctor for further treatment advice. |
| Skin Contact | Not applicable. |
| Inhalation | Move to fresh air. If breathing problems develop, call a doctor. |
| Ingestion | Do not induce vomiting. Call a doctor or poison control center. |

Most important symptoms and effects, both acute and delayed

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| Most Important Symptoms and Effects | See Section 11 for information. |
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Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**Dry chemical, carbon dioxide (CO₂), foam, or water spray.**Specific Hazards Arising from the Chemical**

Alcohol flames may not be readily visible. Vapors are heavier than air and may travel to source of ignition and flash back.

Hazardous Combustion Products

Oxides of carbon.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand. Keep containers cool with water spray.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Ensure adequate ventilation. Use personal protective equipment as required. Eliminate all potential sources of ignition. Take precautionary measures against static discharges.

Environmental precautions**Environmental Precautions**

Prevent entry into surface water or sanitary sewers. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up**Methods for Containment**

Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up

Eliminate all potential sources of ignition, and ventilate area. Absorb and containerize. Do not flush into surface water or sanitary sewer system.

7. HANDLING AND STORAGE**Precautions for safe handling****Handling**

Handle in accordance with good industrial hygiene and safety practice. Keep away from heat, sparks, and flames. Do not eat, drink, or smoke when using this product.

Conditions for safe storage, including any incompatibilities**Storage**

Store in accordance all applicable regulations and fire codes. Keep containers tightly closed in a cool, well-ventilated place away from heat, sparks, open flames, and hot surfaces.

Incompatible Products

Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters**

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|------------------------------|-------------------------------|--|---|
| Isopropyl Alcohol 67-63-0 | STEL: 400 ppm TWA: 200 ppm | TWA: 400 ppm TWA: 980 mg/m ³ | TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1225 mg/m ³ |

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Appropriate engineering controls

Engineering Measures

- Showers
- Eyewash stations
- Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection None required for consumer use. If splashes are likely to occur, wear safety glasses.

Skin and Body Protection No special protective equipment required.

Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

| | | | |
|--------------------------------------|----------------------|-------------------------------|--------------------------|
| Physical State | Thin liquid | Odor | Alcohol |
| Appearance | Clear | Odor Threshold | No information available |
| Color | colorless | | |
| <u>Property</u> | <u>Values</u> | <u>Remarks/ Method</u> | |
| pH | 5 - 7 | None known | |
| Melting/freezing point | No data available | None known | |
| Boiling point / boiling range | 180°F | None known | |
| Flash Point | 18°C / 65°F | None known | |
| Evaporation rate | < 1 | None known | |
| Flammability (solid, gas) | No data available | None known | |
| Flammability Limits in Air | | | |
| Upper flammability limit | No data available | None known | |
| Lower flammability limit | No data available | None known | |
| Vapor pressure | 30mm Hg 20°C | None known | |
| Vapor density | No data available | None known | |
| Specific Gravity | ~0.89 | None known | |
| Water Solubility | Complete | None known | |
| Solubility in other solvents | No data available | None known | |
| Partition coefficient: | No data available | None known | |
| Autoignition temperature | No data available | None known | |
| Decomposition temperature | No data available | None known | |
| Kinematic viscosity | No data available | None known | |
| Dynamic viscosity | No data available | None known | |

10. STABILITY AND REACTIVITY

Reactivity

Stable.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Vapors may form reactive mixture with air.

Conditions to avoid

Keep away from heat, sparks, open flames, and hot surfaces.

Incompatible materials

Strong oxidizers.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

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| Inhalation | Inhalation of high concentrations of vapor or mist may cause dizziness. |
| Eye Contact | May cause slight irritation. |
| Skin Contact | No known significant effects or critical hazards. |
| Ingestion | No known significant effects or critical hazards. |

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|------------------------------|----------------|--------------------|------------------|
| Isopropyl alcohol 67-63-0 | 4.4 g/kg (Rat) | 12.9 g/kg (Rabbit) | 16000 (Rat, 8 h) |

Information on toxicological effects

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| Symptoms | May cause slight redness and tearing of eyes. |
|----------|---|

Ecotoxicity

Persistence and Degradability

No information available.

Bioaccumulation

| Chemical Name | Partition Coefficient |
|------------------------------|-----------------------|
| Isopropyl alcohol 67-63-0 | 0.05 |

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose of in accordance with all applicable federal, state, and local regulations.

Contaminated Packaging

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

DOT

UN/ID/NA number : UN 1219

Proper shipping name : ISOPROPANOL

Class : 3

Packing group : II

Labels : FLAMMABLE LIQUID

Limited Quantities for packages not over 1 Liter

Exempt DOT-SP 9275 for packages under 1 gallon.

15. REGULATORY INFORMATION

Chemical Inventories

TSCA

All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.

DSL/NDSL

All components are on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. EPA Label Information

EPA Pesticide Registration Number 73232-1

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label includes other important information, including directions for use.

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

| | |
|--|------------|
| Acute Health Hazard | Yes |
| Chronic Health Hazard | No |
| Fire Hazard | Yes |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania | Rhode Island |
|------------------------------|-------------------|----------------------|---------------------|---------------------|
| Isopropyl alcohol 67-63-0 | X | X | X | X |

16. OTHER INFORMATION

| | | | | | | | | |
|-------------|----------------------|---|---------------------|---|------------------------|---|--------------------------------------|---|
| NFPA | Health Hazard | 2 | Flammability | 3 | Instability | 0 | Physical and Chemical Hazards | - |
| HMIS | Health Hazard | 2 | Flammability | 3 | Physical Hazard | 0 | Personal Protection | - |

Prepared By Technical Department

Preparation/Revision Date January 2018

Version 2

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet