


HURON INDUSTRIES, INC.
SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product Name: Isopropanol 99%
Huron Industries, Inc.
2301 16th Street
Port Huron MI 48060
Phone: 810-984-4213
Fax: 810-987-4199

Product Use: Solvent/Carrier
Not recommended for: None Identified
Emergency Phone
INFOTRAC: 800-535-5053 Domestic (Huron 89770)
INFOTRAC: +1-352-323-3500 International (Huron 89770)

SECTION 2: HAZARD(S) IDENTIFICATION

| | |
|---|--|
| DANGER: | HIGHLY FLAMMABLE LIQUID AND VAPOUR HARMFUL IF SWALLOWED CAUSES SERIOUS EYE IRRITATION SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD CAUSES DAMAGE TO ORGANS CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE |
| HAZARD CLASS | HAZARD CATEGORY |
| FLAMMABLE LIQUID | 2 |
| EYE CORROSIVE | 2A |
| REPRODUCTIVE TOXIN | 2 |
| ORGAN TOXIN SINGLE EXPOSURE | 1 |
| ORGAN TOXIN REPEATED EXPOSURE | 1 |
| ACUTE TOXICITY – ORAL | 4 |
| PICTOGRAM(S) | |
|  | |
| PRECAUTIONARY STATEMENTS | |
| PREVENTION: | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment. Use only non-sparking tools. Take action to prevent static discharges. Do not breathe dust/fume/gas/mist/vapours/spray. Wash face, hands, and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection / face protection. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Get Medical/doctor advice/attention if you feel unwell. |
| RESPONSE: | Get medical advice/attention if you feel unwell. Specific treatment (see first aid treatment on SDS). IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse Mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical advice/attention. If exposed or concerned: Get medical advice/attention. If exposed, Call a POISON CENTER or doctor/physician. In case of fire: Use suitable media for extinction. |
| STORAGE: | Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. |
| DISPOSAL: | Dispose of contents and container in accordance with local regulations. |
| Classification complies with OSHA Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS). | |
| SEE SECTION 11 FOR ADDITIONAL TOXICOLOGICAL INFORMATION | |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name/ CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|--|---|-----------------------------|--|
| Isopropyl alcohol 67-63-0 90 to 100% | 400 ppm TWA; 980 mg/m ³ TWA | 400 ppm STEL 200 PPM TWA | NIOSH: 400 ppm TWA; 980 mg/m ³ TWA 500 ppm STEL; 1225 mg/m ³ STEL |

SECTION 4: FIRST – AID MEASURES

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

Eye Contact

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

Skin Contact

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

Ingestion

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: 12° C (54° F)

LEL: 3.00

UEL:

Extinguishing Media

Carbon Dioxide, Dry Chemical, Foam, Water Fog

Specific Hazards Arising from the Chemical

Highly flammable liquid and vapor. Vapors/dust may cause flash fire or explosion. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.

Special Protective Equipment and Precautions for Firefighters

Special Information: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wear appropriate personal protective equipment. (See Exposure Controls/ Personal Protection Section.) Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. A vapor suppressing foam may be used to reduce vapors. If leak or spill has not ignited, use water spray to disperse the vapors. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Recover by pumping (use an explosion proof or hand pump).

SECTION 7: HANDLING AND STORAGE

Handling Procedures

Use only in a well-ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Always open containers slowly to allow any excess pressure to vent. Follow all SDS/label precautions even after containers are emptied because they may retain product residues.

Storage Requirements

Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight.

| SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION | | | |
|---|---|-----------------------------|--|
| Chemical Name/ CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
| Isopropyl alcohol 67-63-0 | 400 ppm TWA; 980 mg/m ³ TWA | 400 ppm STEL 200 PPM TWA | NIOSH: 400 ppm TWA; 980 mg/m ³ TWA 500 ppm STEL; 1225 mg/m ³ STEL |

Engineering Controls

Provide ventilation sufficient to maintain exposure below the recommended limits.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

SKIN PROTECTION: Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

HYGENIC PRACTICES: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 82°C **Specific Gravity (SG):** 0.788 **% Volume Volatile:** 0.00 **Lbs VOC/Gallon Less Water:** 0.00

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: STABLE

Incompatible Materials

Avoid contact with caustics. Prevent contact with inorganic acids. Prevent contact with aldehydes. Avoid contact with chlorinated compounds. Prevent contact with halogens. Prevent contact with strong oxidizing agents. Avoid contact with amines.

Conditions to Avoid

Avoid impact, friction, heat, sparks, flame and source of ignition.

Hazardous Decomposition Products

Toxic gases/fumes are given off during burning or thermal decomposition. During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed.

Hazardous Polymerization

Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGY INFORMATION

Mixture Toxicity

Oral Toxicity LD50: 1,870 mg/kg

Dermal Toxicity LD50: 4,059 mg/kg

Inhalation Toxicity LC50: 73 mg/L

Routes of Entry: Inhalation, Ingestion, Skin contact, Eye contact

Target Organs: Eyes, Skin, Respiratory System

Effects of Overexposure

*** **EMERGENCY OVERVIEW*****: Highly flammable liquid and vapor.

SECTION 12: ECOLOGICAL INFORMATION

Component Ecotoxicity

Isopropyl alcohol 96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50
Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >1400000 µg/L
48 Hr EC50 Daphnia magna: 13299 mg/L
96 Hr EC50 Desmodemus subspicatus: >1000 mg/L; 72 Hr EC50 Desmodemus subspicatus: >1000 mg/L

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORTATION INFORMATIONS

Proper Shipping Name: Isopropanol
Hazard Class & Division: 3
ID Number: UN1219
Packing Group: II
ERG Number: 129
Label(s): 3
Transport Document Name: UN1219, ISOPROPANOL, 3, II

SECTION 15: REGULATORY INFORMATION

SARA313: 67-63-0 Isopropyl alcohol
TSCA 8(b) Inventory: 67-63-0 Isopropyl alcohol

SECTION 16: REGULATORY INFORMATION

This safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

The data contained herein are furnished for information only and are believed to be reliable. However, Huron Industries, Inc. ("HI") and its affiliates do not assume responsibility for any results obtained by persons over whose methods HI has no control. It is the user's responsibility to determine the suitability of HI's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any HI's products. In light of the foregoing, HI specifically disclaims all warranties, express, or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of HI's products. HI further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

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| PREPARED BY: | DEBRA HARDY | | <i>Debra Hardy</i> |