

Safety Data Sheet
Isopropanol

Section 1 – Product and Company Information

Manufacturer Inland Diamond Products Company - 32051 Howard Street Madison Heights, MI 48071 USA
www.inlanddiamond.com
USA Toll Free: 1-800-347-2020 USA 248-585 2330 Canada 800 231 6903

Trade Name Isopropanol
Chemical Family: Cleaners

Last Review Date: June 1, 2015

Product ID 6607, 6607-4

Recommended Uses General Purpose Cleaner

Emergency Phone Number:
CHEMTREC 1-800-424-9300 or 1-703-527-3887

Section 2 – Hazard Identification

GHS Classification and Hazard Statements in Accordance with 29 CFR 1910 (OSHA HCS)

Physical Hazard: Flammable liquids (Category 2) Highly flammable liquid and vapor.
Health Hazard: Eye irritation (Category 2A) Causes serious eye irritation.
Specific target organ toxicity - single exposure (Category 3), Central nervous system, May cause drowsiness or dizziness.

Environmental Hazard: Not Classified

GHS Label elements and precautionary statements

Pictogram Flame – Exclamation Mark

Signal word: **DANGER**

Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection.

Response

If On Skin (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

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.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified or not covered by GHS

May form explosive peroxides.

HMIS Rating: Health hazard: 2 Chronic Health Hazard: * Flammability: 3 Physical Hazard 0

NFPA Rating: Health hazard: 2 Fire Hazard: 3 Reactivity Hazard: 1 Health hazard: 2 Fire Hazard: 3 Reactivity Hazard: 0

Section 3 – Composition/Information on Ingredients

| Component | CAS | % Wt. |
|---------------------------------|---------|-------|
| Isopropyl alcohol (Isopropanol) | 67-63-0 | 99.8 |

Section 4 – First Aid Measures

Description of First Aid Measures;

In Case of Skin Contact: First aid not normally required. Remove contaminated clothing. Wash area of contact with soap and water. Wash clothing before reuse. Get medical attention if irritation occurs and persists.

In Case of Eye Contact: Remove contact lenses. Flush with water until all traces of material are gone. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

If Inhaled: Remove affected person from source of exposure. Get medical attention if breathing difficulty or discomfort.

If Swallowed: Do not induce vomiting because of danger of aspiration into lungs. If conscious, give a glass of water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, monitor for breathing difficulty. Get medical attention.

Most Important Symptoms and Effects – Immediate and Delayed: None known for this product.

Indication of Any Immediate Medical Attention and Special Treatment Needed: None known for this product.

Section 5 – Firefighting Measures

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Carbon oxides

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: Use water spray to cool unopened containers. If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA Fire Brigades Standard (29 CFR 1910.156).

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Avoid dust formation. Avoid breathing vapors, mist or gas. Reclaim and recycle is preferred.

Environmental Precautions: No special environmental precautions required. Any spill or release to navigable water that causes a visible sheen upon the water must be reported immediately to the National Response Center (800/424-8802), as required by U.S. federal law.

Methods and materials for containment and cleaning up: Floor and surfaces may be slippery.

For large spills, isolate the release area and keep unnecessary people away. Exercise caution regarding personnel safety and exposure. Dike with sand or other material.

For Small Spills: Sweep up and shovel solids. Use absorbents to collect liquids. Keep in suitable, closed containers for disposal. Flush area with water provided runoff does not enter drain or sewer; use absorbent material and dispose of properly.

Reference to other sections: For personal protection see section 8. For disposal see section 13.

Section 7 – Handling and Storage

Precautions for safe handling: Wear proper protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Do not ingest. For intended use only. Use good hygiene practices when handling product, including changing and laundering work clothes after use. Get medical attention if you are exposed and feel unwell. The shipping and storage container is not designed to be pressurized. Do not use pressure to empty the container as it may rupture. Containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly. Empty containers may contain residue or vapors. Do not cut, grind, drill, weld or reuse containers.

Conditions for safe storage, including any incompatibilities: Do not store near incompatible chemicals. When possible, store in a dry place at moderate temperatures (above freezing) away from heat and flames. This material is to be handled and applied according to label directions. Keep this product and all chemicals away from children and pets. Keep containers closed when not in use. Keep from freezing. Do not eat, drink, or smoke while using this product.

Section 8 – Exposure Control and Personal Protection

Control parameters

Components with workplace control parameters:

Isopropyl Alcohol (67-63-0): OSHA: The legal airborne permissible exposure limit (PEL) is 400 ppm averaged over an 8-hour work shift. NIOSH: The recommended airborne exposure limit (REL) is 400 ppm averaged over a 10-hour work shift and 500 ppm, not to be exceeded during any 15-minute work period. ACGIH: The threshold limit value (TLV) is 200 ppm averaged over an 8-hour work shift and 400 ppm as a STEL (short-term exposure limit).

Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable regulations. Wash and dry hands.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Improper use of respirators is dangerous. Respirators should only be used if the employer has implemented a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing, and medical exams, as described in the OSHA Respiratory Protection Standard (29 CFR 1910.134).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

Form: Liquid

Color: Clear

Odor: Mild

Health, Safety and Environment Info

Boiling Point/Range: 82-82.8°C (180-181°F)

Flash Point: 12.2°C (54°F)

Auto Ignition Temp: 350°C (662°F)

Lower Flammability-Explosion Limit: N/A

Upper Flammability-Explosion Limit: N/A

Vapor Pressure (mm Hg@100°F): 96

Vapor Density (Air=1): N/A

Freezing Point/Melting Point: 88.9°C (-128°F)

Solubility (Water): 100%

Specific Gravity (H₂O=1): 1.038 @ 20°C (68°F)

Evaporation Rate: (Butyl Acetate= 1) 2.3

Viscosity (SSU@ 100°F): Not Determined.

pH: 5.0

Other Information:

Volatility (v/v): 80-90%

Note: Physical Data is typical values based on material tested, but may vary based on composition. Values should not be accepted as guaranteed for every lot or as specifications for this product.

Section 10 – Stability and Reactivity

Possibility of hazardous reactions: Vapors may form explosive mixture with air.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Oxidizing agents, Acid anhydrides, Aluminum, Halogenated compounds, Acids

Hazardous decomposition products: Other decomposition products - No data available

In the event of fire: See Section 5

Section 11 – Toxicological Information

Component Toxicity: Isopropyl Alcohol (67-63-0): Acute toxicity LD50 Oral - Rat - 5,045 mg/kg Remarks: Behavioral: altered sleep time (including change in righting reflex). Behavioral: somnolence (general depressed activity). LC50 Inhalation - Rat - 8 h - 16000 ppm LD50 Dermal - Rabbit - 12,800 mg/kg No data available Skin corrosion/irritation Skin - Rabbit Result: Mild skin irritation Serious eye damage/eye irritation Eyes - Rabbit Result: Eye irritation - 24 h Respiratory or skin sensitization No data available Germ cell mutagenicity No data available

Carcinogenicity: Product not classified as a carcinogen by the National Toxicology Program (NTP and the Occupational Safety and Health Administration (OSHA). The International Agency for Research on Cancer (IARC) have assigned Group 3: Not classifiable as to its carcinogenicity to humans (2-Propanol).

Reproductive toxicity - Specific target organ toxicity - single exposure - Specific target organ toxicity - repeated exposure - Aspiration hazard - All no data available. Inhalation, Oral - May cause drowsiness or dizziness.

Section 12 – Ecological Information

Ecotoxicity: Isopropyl Alcohol (67-63-0): Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 9,640.00 mg/l 96 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 5,102.00 mg/l - 24 h Immobilization EC50 - Daphnia magna (Water flea) - 6,851 mg/l - 24 h Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - > 2,000.00 mg/l - 72 h EC50 - Algae - > 1,000.00 mg/l - 24 h

Persistence and Biodegradability: Not Determined

Bioaccumulative Potential: No bioaccumulation is to be expected.

Mobility in Soil: Not Determined

Other adverse effects: No data available

Section 13 – Disposal Consideration

US/RCRA Waste Disposal Methods: None of the ingredients are currently listed as a substance or a source waste under current RCRA regulations (40 CFR 261.31, 32 and 33). However, disposed of water solutions containing this material are the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render

the resulting materials hazardous. Avoid repacking wet material in sealed containers. Dispose of waste material according to Local, State and Federal Environmental Regulations.

Section 14 – Transport Information

DOT: UN number: 1219 Class: 3 Packing group: II Proper shipping name: Isopropanol Reportable Quantity (RQ):

Section 15 – Regulatory Information

TSCA (Toxic Substance Control Act): Components of this product are listed on the TSCA Inventory.

DSL: This product, or its components, are listed on or are exempt from the Canadian Domestic Substances List (DSL).
Chemical Inventory Lists All ingredients are listed on TSCA and DSL

SARA 302 Components: None

SARA (311/312) Reportable Hazard Categories: None

SARA 311/312 Hazards: Fire Hazard, Acute Health Hazard and Chronic Health Hazard.

SARA Title III, Section 313 (40 CFR 372.65): The following components are subject to reporting levels established by 2-Propanol (67-63-0)

RTK: MA, PA & NJ: 2-Propanol (67-63-0)

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.

Canada: This product is not a controlled product under WHMIS.

Section 16 – Other Information

Disclaimer: 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 our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

[This SDS complies with the requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200](#)