

ExxonMobil™ IPA (Isopropyl Alcohol)

This Product Safety Summary document is a high-level summary intended to provide the general public with an overview of product safety information on this chemical substance. It is not intended to provide emergency response, medical or treatment information, or to provide a discussion of all safety and health information. This document is not intended to replace the (Material) Safety Data Sheet. Warnings and handling precautions provided below are not intended to replace or supersede manufacturers' instructions and warning for their consumer products which may contain this chemical substance.

1. Chemical Identity

CAS No.:	Chemical Name:	Other Names:
67-63-0	Isopropyl Alcohol (IPA)	Isopropyl Rubbing Alcohol, Isopropanol, Propan-2-ol, 2-propanol

2. Product Uses

IPA is a liquid solvent used in cosmetics and personal care products and applications. It is also used in paints, coatings, and resins; adhesives, printing inks, and as a chemical intermediate. Consumer and commercial applications may include disinfectants and cleaning fluids.

3. Physical / Chemical Properties

IPA is a highly flammable material in both the liquid and vapor forms, has a relatively high vapor pressure, and should be handled only with adequate ventilation and in areas where ignition sources have been removed (e.g. open flames, static electricity sources, unprotected light switches). The flash point is 54°F /12°C.

4. Health Information

IPA is generally recognized to have low acute and chronic toxicity if ingested and/or breathed. High concentrations (above 400 ppm) in the air can cause eye and lung irritation. High vapor concentrations may cause flushing, headache, drowsiness and dizziness and may cause central nervous system (CNS) depression, nausea, vomiting, anesthesia, and coma. If this occurs, seek immediate medical attention. It is not regarded as a mutagen, a carcinogen, or a concern for reproductive, developmental, or nervous system toxic effects.

5. Additional Hazard Information

If accidentally swallowed, small amounts of liquid may be aspirated into the lungs during ingestion or from vomiting. This may cause severe lung inflammation and lung edema (an accumulation of fluid in the lungs). This is a medical emergency which must be immediately and properly treated.

6. Food Contact Regulated Uses

Appropriate manufacturing and distribution practices are employed to ensure the quality of this product when offered for use in indirect food contact applications.

7. Environmental Information

IPA is not expected to present a threat to the environment because of its low toxicity, high volatility and complete solubility in water. IPA is rapidly degraded in water, soil, and air. Although IPA is not a hazardous air pollutant, it is a volatile organic compound (VOC), thus considerable measures are taken to prevent its release to the atmosphere.

8. Exposure Potential

- **Workplace exposure** – This refers to potential exposure in a manufacturing facility or through evaporation in various industrial applications. Generally, exposure in manufacturing facilities is relatively low because the process, storage and handling operations are enclosed. The US Occupational Safety and Health Administration (OSHA) permissible exposure limit (PEL) to IPA vapors is 400 parts per million (ppm) per an 8-hour work day.
- **Consumer use of products containing IPA** – This category of exposure is highly variable depending on the products used and the conditions under which they are used. Exposure could occur through the use of IPA in cosmetic or personal care products, rubbing alcohol, adhesives or in lacquers and paints. The best way to prevent exposure to vapors is to work and/or use in well-ventilated areas.
- **Environmental releases** – As a chemical manufacturer, we are committed to operating in an environmentally responsible manner everywhere we do business. Our efforts are guided by in-depth scientific understanding of the environmental impact of our operations, as well as by the social and economic needs of the communities in which we operate. Industrial spills or releases are rare; however a spill may pose a flammability issue. Our operational improvement targets and plans are based on driving incidents with real environmental impact to zero and delivering superior environmental performance.

9. Manufacture of Product

- **Process** – IPA can be produced from either propylene or acetone.

10. Risk Management

- **Workplace Risk Management** – When using this product, make sure that there is adequate ventilation. Always use chemical resistant gloves to protect your hands and skin and always wear eye protection such as chemical goggles. Do not eat, drink, or smoke where chemicals are handled, processed, or stored. Wash hands and skin following contact. If this product gets into your eyes, flush eyes thoroughly with tap water. If irritation occurs, get medical assistance. Please refer to the (Material) Safety Data Sheet.
- **Consumer Risk Management** - IPA manufactured by ExxonMobil is not sold directly to the public for general consumer uses. This chemical may be repackaged and sold directly to the public for general consumer uses. Always follow manufacturers' instructions, warnings and handling precautions when using their products.

1. Regulatory Information

Regulations may exist that govern the manufacture, sale, transportation, use and/or disposal of this product and may vary by city, state, country or geographic region. Additional helpful information may be found by consulting the relevant ExxonMobil (Material) Safety Data Sheet at:

- <http://www.msds.exxonmobil.com>

12. Conclusion Statement

Isopropyl Alcohol (IPA) ...

- is a widely used industrial solvent and chemical intermediate.
- is low in toxicity, however, it may cause lung damage if swallowed.
- does not cause adverse health or environmental effects at levels typically found in the workplace or environment.

Product Safety Summary



ExxonMobil™ IPA (Isopropyl Alcohol)

- is highly flammable with a high vapor pressure; use only with good ventilation; avoid all ignition sources.
- For the consumer product "Isopropyl Rubbing Alcohol", "Keep out of reach of children."

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