

MATERIAL SAFETY DATA SHEET



APPROVED BY US DEPT OF LABOR, ESSENTIALLY SIMILAR TO FORM OSHA174

SUPERIOR SOLVENTS AND CHEMICALS

400 West Regent Street

Indianapolis, IN 46225

EMERGENCY PHONE NUMBER 317-781-4400

TRADE NAME: Isopropanol 75%

I. PHYSICAL DATA

Boiling Point (degF): 180
Specific Gravity (Water = 1): 0.854
Pounds/Gallon: 7.11
Vapor Pressure (mm Hg @ 20 deg C) 29.75
Vapor Density (Air = 1): >1
Solubility in Water (%): 100.00
Dry Time (Ether = 1): >1
% Volatile by Volume: 79
Appearance: White Water Liquid
Odor: Typical Solvent

II. HAZARDOUS INGREDIENTS

<u>MATERIAL</u>	<u>CAS #</u>	<u>VOL (%)</u>	<u>ACGIH (TWA)</u>	<u>OSHA (TWA)</u>
ISOPROPRANOL	67-63-0	>29	200	400

III FIRE & EXPLOSION HAZARD DATA

LOWER EXPLOSIVE LIMIT IN AIR- (% BY VOLUME): 2.0

UPPER EXPLOSIVE LIMIT IN AIR- (% BY VOLUME): 12.0

FLASH POINT (T.C.C. deg F) 54 (lowest flashing component)

EXTINGUISHING MEDIA: Carbon Dioxide, Alcohol Foam, or Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: S.C.B.A. for fire fighting in enclosed areas. Water spray may be used to cool exposed containers and protect personnel. In advanced fires, maintain a safe distance from sealed containers.

UNUSUAL EXPLOSION AND FIRE PROCEDURES: FLAMMABLE LIQUID! Vapors may burn in the open and may explode if confined. Use in well vented areas away from heat, sparks and open flame. Keep container closed when not in use.

IV. HEALTH HAZARD DATA

ROUTES OF ENTRY: INHALATION - YES SKIN - YES INGESTION - YES

EFFECTS OF ACUTE OVEREXPOSURE: Material is an eye and skin irritant. Excessive vapor inhalation will lead to central nervous system depression. Harmful or fatal if swallowed.

CHRONIC OVEREXPOSURE:

CARCINOGENICITY: NTP: NO IARC: NO OSHA: NO
-THIS BLEND CONTAINS NO LISTED CARCINOGENS-

SIGNS & SYMPTOMS OF EXPOSURE: The signs of central nervous system depression begin with headache, dizziness, apparent intoxication, and progress through loss of consciousness.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Skin contact can aggravate existing dermatitis.

EMERGENCY & FIRST AID PROCEDURE:

EYE CONTACT	--rinse with water for 15 minutes. If irritation persists call a physician.
SKIN CONTACT	--wash with plenty of soap and water. Wash contaminated clothing before reuse.
EXCESSIVE VAPOR	--remove victim to fresh air and restore breathing if necessary. Call a physician if there are signs of breathing difficulties.
IF SWALLOWED	Do not induce vomiting, call a physician immediately. If conscious, give large quantities of water to drink. Do Not give anything by mouth to an unconscious person.

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V. REACTIVITY DATA

STABILITY: STABLE: X UNSTABLE:

CONDITIONS TO AVOID: Isolate from heat, sparks, and open flames.

INCOMPATIBILITY: Strong oxidizers.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Oxides of carbon (CO, CO₂)

HAZARDOUS POLYMERIZATION: Will not occur.

VI. PRECAUTIONS FOR SAFE HANDLING & USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Stop spill at the source, dike the area and contain the flow, mop up or absorb, and place in a suitable container. Notify proper authorities if an RQ is involved.

WASTE DISPOSAL METHOD: As directed by local and federal pollution laws.

PRECAUTIONS TO BE TAKEN IN HANDLING & STORAGE: Avoid free fall of liquid, ground containers when pouring. Store and use below 120F and away from direct heat or sources of ignition.

VII. CONTROL MEASURES

RESPIRATORY PROTECTION: Organic cartridge type respirator if ventilation or other mechanical means cannot keep air below TLV.

VENTILATION: Local exhaust is preferable, but any mechanical means that will keep vapors below limits is acceptable.

PROTECTIVE GLOVES: Recommended--must not dissolve in solvents.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Chemical goggles and apron are recommended if splashing is possible. An eye wash and safety shower should be available.

WORK/HYGIENIC PRACTICES: Avoid breathing vapor or spray mist. Wash hands thoroughly after contact and before breaks or meals.

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VIII. L313 LISTED MATERIALS

As per the requirements of 40 CFR 372.45, the following components of this blend are listed in Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986.

<u>MATERIAL</u>	<u>CAS #</u>	<u>MAXIMUM % BY WT</u>
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None Listed

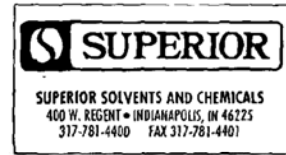
The act also requires that this notice accompany the MSDS in all redistributions and not be detached or omitted from future copies.

Legal responsibility is assumed only for the fact that all studies reported here and all opinions are those of qualified experts. Buyer assumes all risks and liabilities. The buyer accepts and uses this material on these conditions.

Print Date: 05/24/2007

Last Revision Date: 05/23/2007

MATERIAL SAFETY DATA SHEET
ExxonMobil Chemical Company
A Division of Exxon Mobil Corporation



DATE PREPARED: OCT 23, 2004
MSDS NO.: 90275000

EXXONMOBIL IPA IPA - 99%

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EXXONMOBIL IPA

CHEMICAL NAME:

2-Propanol

67-63-0

CHEMICAL FAMILY:

Aliphatic Alcohol

PRODUCT DESCRIPTION:

Clear colorless liquid.

CONTACT ADDRESS:

ExxonMobil Chemical Company
P.O. Box 3272, Houston, Texas 77253-3272

** **EMERGENCY TELEPHONE NUMBERS: (24 Hours)** **
** **CHEMTREC (800) 424-9300** **
** **ExxonMobil Chemical Company (800) 726-2015** **

NON EMERGENCY TELEPHONE NUMBERS : (8am-5pm M-F)
FOR GENERAL PRODUCT INFORMATION CALL : (281) 870-6000
FOR HEALTH AND MEDICAL INFORMATION CALL : (281) 870-6884

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

This product is hazardous as defined in 29 CFR1910.1200.
OSHA HAZARD
Flammable
PEL; TLV
Eye irritant

SECTION 3 HAZARDS IDENTIFICATION

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POTENTIAL HEALTH EFFECTS

EYE CONTACT:

Irritating, and will injure eye tissue if not removed promptly.

SKIN CONTACT:

Frequent or prolonged contact may irritate and cause dermatitis.
Low order of toxicity.

INHALATION:

Vapor concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects.

Negligible hazard at ambient temperature (-18 to 38 Deg C; 0 to 100 Deg F)

INGESTION:

Minimal toxicity.

Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

SECTION 4 FIRST AID MEASURES

EYE CONTACT:

Immediately flush eyes with large amounts of water for at least 15 minutes. Get prompt medical attention.

SKIN CONTACT:

Immediately flush with large amounts of water; use soap if available.
Remove contaminated clothing, including shoes, after flushing has begun.

INHALATION:

Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

INGESTION:

If swallowed, DO NOT induce vomiting. Keep at rest. Get prompt medical attention.

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SECTION 5 FIRE-FIGHTING MEASURES

FLASH POINT: 53 Deg F. METHOD: TCC ASTM D56
FLAMMABLE LIMITS: LEL: 2.0 UEL: 12.7 @ 77 Deg F.
AUTOIGNITION TEMP.: > 662 Deg F.

GENERAL HAZARD

Flammable Liquid, can release vapors that form flammable mixtures at temperatures at or above the flashpoint.
"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; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconitioner, or properly disposed of.

FIRE FIGHTING

Use water spray to cool fire exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors.
Either allow fire to burn under controlled conditions or extinguish with alcohol type foam and dry chemical. Try to cover liquid spills with foam.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS

No unusual

SECTION 6 ACCIDENTAL RELEASE MEASURES

LAND SPILL

Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills implement cleanup procedures; for large spills implement cleanup procedures and, if in public area, keep public away and advise authorities. Also, if this product is subject to CERCLA reporting (see Section 15 REGULATORY INFORMATION) notify the National Response Center.

Prevent liquid from entering sewers, watercourses, or low areas. Contain spilled liquid with sand or earth. Do not use combustible materials such as sawdust.

Recover by pumping (use an explosion proof or hand pump) or with a

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suitable absorbent.
Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

WATER SPILL

Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear.
Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

SECTION 7 STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD

No, but use proper bonding and/or grounding procedure.

STORAGE TEMPERATURE Deg F:

Ambient

LOADING/UNLOADING TEMPERATURE Deg F:

Ambient

STORAGE/TRANSPORT PRESSURE mmHg:

Atmospheric

LOADING/UNLOADING VISCOSITY cSt:

2.7

STORAGE AND HANDLING:

Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials.
Do NOT handle or store near an open flame, heat or other sources of ignition. Protect material from direct sunlight.
This material is not a static accumulator, but use proper bonding and/or grounding procedures.
Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures,

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or is agitated.
Use explosion-proof ventilation equipment.

PERSONAL PROTECTION

For open systems where contact is likely, wear long sleeves, chemical resistant gloves, and chemical goggles.
Where contact may occur, wear safety glasses with side shields.
Where concentrations in air may exceed the limits given in this Section and engineering, work practice or other means of exposure reduction are not adequate, NIOSH approved respirators may be necessary to prevent overexposure by inhalation.

WORKPLACE EXPOSURE GUIDELINES

OSHA REGULATION 29CFR1910.1000 REQUIRES THE FOLLOWING PERMISSIBLE EXPOSURE LIMITS:
A TWA of 400 ppm (980 mg/m³) and a STEL of 500 ppm (1225 mg/m³) for Isopropyl Alcohol.
The recommended permissible exposure levels indicated above reflect the levels revised by OSHA in 1989 or in subsequent regulatory activity. Although the 1989 levels have since been vacated by the 11th Circuit Court of Appeals, ExxonMobil Chemical Company recommends that the lower exposure levels be observed as reasonable worker protection.
THE ACGIH RECOMMENDS THE FOLLOWING THRESHOLD LIMIT VALUES:
A TWA of 200 ppm (492 mg/m³) and a STEL of 400 ppm (983 mg/m³) for Isopropyl Alcohol with an A4 designation.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY at Deg F:	0.79 at 68
DENSITY at Deg F:	6.6 lbs/gal at 68
VAPOR PRESSURE, mmHg at Deg F:	36 at 77
SOLUBILITY IN WATER, wt. % at Deg F:	100.00 at 68
VISCOSITY OF LIQUID, cSt at Deg F:	2.2 at 68
SP. GRAV. OF VAPOR, at 1 atm (Air=1):	Greater than 1.00
FREEZING/MELTING POINT, Deg F:	-128
EVAPORATION RATE, n-Bu Acetate=1:	2.3
BOILING POINT, Deg F:	180 to 181

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SECTION 10 STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITIONS TO AVOID INSTABILITY:

Not applicable.

HAZARDOUS POLYMERIZATION:

Will not occur

CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION:

Not Applicable

MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:

Caustics, amines, alkanolamines, aldehydes, strong oxidizing agents, and chlorinated compounds.

HAZARDOUS DECOMPOSITION PRODUCTS:

None

SECTION 11 TOXICOLOGICAL INFORMATION

Please refer to Section 3 for available information on potential health effects.

SECTION 12 ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

SECTION 13 DISPOSAL CONSIDERATIONS

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Please refer to Sections 5, 6 and 15 for disposal and regulatory information.

SECTION 14 TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):

DOT SHIPPING DESCRIPTION: ISOPROPANOL, 3, UN 1219, II

SECTION 15 REGULATORY INFORMATION

TSCA:

This product is listed on the TSCA Inventory at CAS Registry Number
67-63-0

CERCLA:

If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act. We recommend you contact local authorities to determine if there may be other local reporting requirements.

SARA TITLE III:

Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Reauthorization Act, this product is classified into the following hazard categories:

Immediate health, Delayed Health, Fire.

This information may be subject to the provisions of the Community Right-to-Know Reporting Requirements (40 CFR 370) if threshold quantity criteria are met.

SECTION 16 OTHER INFORMATION

HAZARD RATING SYSTEMS:

This information is for people trained in:
National Paint & Coatings Association's (NPCA)
Hazardous Materials Identification System (HMIS)

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National Fire Protection Association (NFPA 704)
Identification of the Fire Hazards of Materials

	<u>NPCA-HMIS</u>	<u>NFPA 704</u>	<u>KEY</u>
HEALTH	2	1	4 = Severe
FLAMMABILITY	3	3	3 = Serious
REACTIVITY	0	0	2 = Moderate 1 = Slight 0 = Minimal

CAUTION: HMIS ratings are based on a 0-4 rating scale with 1 representing minimal hazards or risks, and 4 representing significant hazards or risks. Recommended HMIS ratings should not be used in the absence of a fully implemented HMIS hazard communication program.

REFERENCE NUMBER:
HDHA-C-00021

SUPERSEDES ISSUE DATE:

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness.

It is the users responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept

liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

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