

ISOPROPANOL,3,UN1219,II**00623-1006****MSDS#3010**

VIKING CHEMICAL COMPANY
 1827 - 18th Avenue
 P.O. Box 1595
 Rockford, IL 61110
 (815) 397-0500

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M A T E R I A L S A F E T Y D A T A S H E E T
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A. IDENTIFICATION AND EMERGENCY INFORMATION
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PRODUCT NAME: Isopropyl Alcohol 99%, Anhydrous

CHEMICAL NAME: Isopropanol, Anhydrous

PRODUCT APPEARANCE/ODOR: Transparent, colorless with characteristic odor

 EMERGENCY TELEPHONE NUMBER:
 CHEMTREC - 800/424-9300
 VIKING CHEMICAL CO - 815/397-0500

B. COMPONENTS AND HAZARD INFORMATION
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Hazard Components (Specific Chemical Identity):			
Common Name (s)	CAS #	OSHA PEL	ACGIH TLV
Isopropanol	67-63-0	400 ppm TWA	400 ppm TWA 500 ppm STEL

 Hazardous Materials Identification System (HMIS)
 Health = 1 Flammability = 3 Reactivity = 0

C. EMERGENCY AND FIRST AID PROCEDURES
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EYE CONTACT:
 Immediately flush eyes with water and continue washing for several minutes. Obtain medical attention.

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SKIN CONTACT:

Remove contaminated clothing. Wash skin with soap and water. If irritation persists or if contact has been prolonged, obtain medical attention.

INHALATION:

Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult oxygen may be given by qualified personnel. Obtain medical attention.

INGESTION:

If patient is fully conscious, give two glasses of water. Induce vomiting. Obtain medical attention.

NOTES TO PHYSICIAN:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

D. FIRE AND EXPLOSION HAZARD INFORMATION

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FLASH POINT (minimum)	53 deg. F. 12 deg. C.	or	63 deg. F. 17 deg. C.
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METHOD USED:	Tag Closed Cup ASTM D 56	Tag Open Cup ASTM D 1310
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FLAMMABLE OR EXPLOSIVE LIMITS (APPROXIMATE PERCENT BY VOLUME IN AIR)

Estimated values:	Lower Flammable Limit: 2.0
	Upper Flammable Limit: 12.7 @ 200 deg. F.

National Fire Protection Association Rating (NFPA):

Health = 1	Flammability = 3	Reactivity = 0
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HANDLING PRECAUTIONS:

Vapors form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point. Vapors from this material may settle in low or confined areas or travel a long distance to an ignition source and flash back explosively. This material may produce a floating fire hazard.

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EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES:

Apply alcohol-type or all-purpose-type foam by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires. Use water spray to cool fire-exposed containers and structures. Use water spray to disperse vapors; re-ignition is possible. Use self-contained breathing apparatus and protective clothing.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS:

Burning can produce the following combustion products: Carbon monoxide and/or carbon dioxide. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

'EMPTY' CONTAINER WARNING:

'Empty' containers retain residue (liquid and/or vapor) and may be dangerous. Do not attempt to clean since residue is difficult to remove. 'Empty' drums should be completely drained, properly bunged and should be disposed of in an environmentally safe manner and in accordance with local, state and governmental regulations. For further information, please refer to Occupational Safety and Health Administration regulations. ANSI Z49.1.

E. HEALTH AND HAZARD INFORMATION

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EYE CONTACT:

Causes irritation experienced as stinging and discomfort or pain. Corneal injury may occur.

SKIN CONTACT:

May cause minor irritation with itching and possible slight local redness. Prolonged or repeated contact may cause defatting and drying of the skin.

SKIN ABSORPTION:

Exposure to small quantities is not expected to cause adverse health effects. Widespread or prolonged exposure may result in the absorption of harmful amounts of material, particularly in infants, leading to signs and symptoms as described for swallowing.

INHALATION:

Vapor causes irritation of the respiratory tract, with coughing and chest discomfort. High concentrations of vapor may cause headache and drowsiness.

INGESTION:

Slightly toxic. May cause abdominal discomfort, nausea, vomiting and diarrhea. Loss of consciousness may occur. Drowsiness may occur.

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F. PHYSICAL DATA

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The following data is approximate or typical values and should not be used for precise design purposes.

BOILING POINT: (760 mm Hg):	180.07 deg. F. / 82.26 deg. C.
SPECIFIC GRAVITY: (Water = 1):	0.7864 @ 20/20 C.
FREEZING POINT:	-127.3 deg. F. / -88.5 deg. C.
VAPOR PRESSURE: (at 20 deg. C.)	33 mmHg
VAPOR DENSITY: (Air = 1)	2.07
PERCENT VOLATILES: (by weight):	100
SOLUBILITY IN WATER: (At 20 deg. C.):	complete
EVAPORATION RATE: (Butyl Acetate = 1):	2.88

G. REACTIVITY

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Material is considered stable. Hazardous polymerization will not occur.

H. SPILL OR LEAK PROCEDURES

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

Extinguish and do not turn on any ignition force until the area is determined to be free from fire or explosion hazard. Wear suitable protective equipment. Avoid contact with eyes. Small spills can be flushed with large amounts of water; larger spills should be collected for disposal.

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Incinerate in a furnace where permitted under Federal, State and local regulations. At very low concentrations in water, this product is biodegradable in a biological wastewater treatment plant.

I. PROTECTION AND PRECAUTIONS

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VENTILATION:

General (mechanical) room ventilation is expected to be satisfactory where this product is stored and handled in closed equipment. Special, local ventilation is needed at points where vapors can be expected to escape to the workplace area.

RESPIRATORY PROTECTION:

Use self-contained breathing apparatus in high vapor concentrations.

PROTECTIVE GLOVES:

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION:

Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT:

Eye bath, safety shower.

WORK PRACTICES / ENGINEERING CONTROLS:

Keep containers and storage containers closed when not in use.

PERSONAL HYGIENE:

Cleanse skin thoroughly after contact, before breaks and meals and at end of work period. Remove contaminated clothing and discard shoes. Maintain good personal hygiene.

J. TRANSPORTATION INFORMATION

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TRANSPORTATION INCIDENT INFORMATION:

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents. DOT P 5800.3.

DOT IDENTIFICATION NUMBER:

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THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH
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N.A. (not applicable)
N.D. (not determined)
N.K. (not known)

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