

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Supersedes: No prior revisions

		Date of	issue: 09/09/2021	Revision date: 09/09/2021	Supersedes: No prior revisions
SECTION 1	: Identificat	tion			
	ification				
Product form			: Substance		
Trade name			: Isopropyl Alco	hol	
Chemical nan	ne		: 2-propanol		
CAS-No.			: 67-63-0		
Product code			: HF4002		
Formula			: C3H8O		
Synonyms				ol, Isopropanol, sec-Propyl alo	cobol dimethyl carbinol
, ,			, ,		
		e and restrictions			
Use of the sul	ostance/mixtur	e	: Solvent		
I.3. Supp	olier				
Haltermann S 15600 W Hard Houston, TX 7 T 1-800-969-2 F 281-457-14	dy Rd. 77060 - USA 2542				
I.4. Eme	rgency teleph	one number			
Emergency n	umber		: 24 HR CHEM CDT)	REC: 1-800-424-9300; Emer	gency Assistance: 1-800-969-2542 (8 AM to 5 PM
SECTION 2	: Hazard(s)	identification			
.1. Class	sification of th	ne substance or n	nixture		
HS-US class	ification				
Flammable lic	luids	H225	Highly	flammable liquid and vapour	
Category 2			0,		
Eye irritation	rritation gory 2A ific target organ ty (single exposure)	H319	Cause	s eye irritation	
Specific targe		H335	Мау са	ause respiratory irritation	
full text of H st	atements : see	e section 16			
.2. GHS	Label elemen	its, including pred	cautionary stateme	nts	
GHS-US labeli	ng				
Hazard picto	grams (GHS-U	IS)			
Signal word (	(GHS-US)		: Danger	•	
0	ments (GHS-U	IS)	0	flammable liquid and vapour	
	(	,	H319 - Cause	s serious eye irritation ause respiratory irritation	
Precautionar	y statements ((	GHS-US)	P233 - Keep o P240 - Groun P241 - Use o P242 - Use o P243 - Take p P261 - Avoid P264 - Wash P271 - Use o P273 - Avoid P280 - Wear	container tightly closed. d/Bond container and receivir colosion-proof electrical, lightin ly non-sparking tools. orecautionary measures again breathing dust, fume, gas, mis hands thoroughly after handlin ly outdoors or in a well-ventil release to the environment. eye protection, protective clot	ng, ventilating equipment ist static discharge. st, spray, vapors. ng. ated area.
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	Call a doctor, a POISON CENTER P305 + P351 + P338 - IF IN EYES: contact lenses, if present and easy P337 + P313 - If eye irritation persis P370+P378 - In case of fire: Use d extinguish. P403+P233 - Store in a well-ventila P403+P235 - Store in a well-ventila P405 - Store locked up. P501 - Dispose of contents/ contain	Rinse cautiously with water for several to do. Continue rinsing. sts: Get medical advice/ attention. ry sand, dry chemical or alcohol-resista ted place. Keep container tightly closed	ninutes. Remove ant foam to d.
2.3. Other hazards which do not resul	t in classification		
May form explosive peroxides.			
2.4. Unknown acute toxicity (GHS US) Not applicable			
SECTION 3: Composition/Informat	tion on ingredients		
3.1. Substances			
Name		Product identifier	%
Isopropyl alcohol		(CAS-No.) 67-63-0	100
Full text of hazard classes and H-statements :	see section 16		
3.2. Mixtures			
Not applicable			
SECTION 4: First-aid measures			
4.1. Description of first aid measures			
First-aid measures general		this material safety data sheet to the do	
First-aid measures after inhalation		p comfortable for breathing. Call in phy	
First-aid measures after skin contact	-	ntaminated clothing. Rinse skin with wa	
First-aid measures after eye contact	: After eye contact: rinse out with plen lenses.	ty of water. Call in ophthalmologist. Re	emove contact
First-aid measures after ingestion	: Immediately make victim drink water	(two glasses at most). Consult a physi	
ç			ician.
1.2 Most important symptoms and off	÷	(	ician.
	fects (acute and delayed)		ician.
Symptoms/effects	fects (acute and delayed) No further relevant information availa	able.	ician.
Symptoms/effects Symptoms/effects after eye contact	fects (acute and delayed) No further relevant information availation No further relevant information availation	able. able	ician.
Symptoms/effects Symptoms/effects after eye contact Symptoms/effects after ingestion	fects (acute and delayed) No further relevant information availa No further relevant information availa No further relevant information availa	able. able	ician.
Symptoms/effects Symptoms/effects after eye contact Symptoms/effects after ingestion 4.3. Immediate medical attention and a	fects (acute and delayed) No further relevant information availa No further relevant information availa No further relevant information availa	able. able	ician.
Symptoms/effects Symptoms/effects after eye contact Symptoms/effects after ingestion 4.3. Immediate medical attention and a Treat symptomatically.	fects (acute and delayed) <ul> <li>No further relevant information availa</li> <li>No further relevant information availa</li> <li>No further relevant information availa</li> </ul> special treatment, if necessary	able. able	ician.
Symptoms/effects Symptoms/effects after eye contact Symptoms/effects after ingestion 4.3. Immediate medical attention and a Treat symptomatically. SECTION 5: Fire-fighting measures	fects (acute and delayed)  No further relevant information availa No further relevant information availa No further relevant information availa special treatment, if necessary S	able. able	ician.
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Symptoms/effects Symptoms/effects after eye contact Symptoms/effects after ingestion 4.3. Immediate medical attention and a Treat symptomatically. SECTION 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguis Suitable extinguishing media 5.2. Specific hazards arising from the	fects (acute and delayed) : No further relevant information availa : No further relevant information availa : No further relevant information availa special treatment, if necessary S ishing media : Water spray, alcohol-resistant foam, chemical : DIRECT FIRE HAZARD. Highly flam	able. able able. dry chemical or carbon dioxide. mable liquid and vapour. Gas/vapor fla RE HAZARD. May be ignited by sparks	ammable with air
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SECTI	ON 6: Accidental release meas	sures
6.1.	Personal precautions, protective equ	Jipment and emergency procedures
6.1.1. Protect	For non-emergency personnel ive equipment	: Gloves. Protective goggles. Protective clothing. Large spills/in enclosed spaces: compressed air apparatus.
Emerge	ency procedures	<ul> <li>Keep upwind. Mark the danger area. Consider evacuation. Seal off low-lying areas. Close doors and windows of adjacent premises. Stop engines and no smoking. No naked flames or sparks. Spark- and explosion-proof appliances and lighting equipment. Keep containers closed. Wash contaminated clothes.</li> </ul>
	For emergency responders ive equipment ency procedures	<ul> <li>Equip cleanup crew with proper protection. Do not breathe gas, fumes, vapor or spray.</li> <li>Stop leak if safe to do so. Ventilate area. If a major spill occurs, all personnel should be immediately evacuated, and the area ventilated.</li> </ul>
6.2.	Environmental precautions	
Prevent	spreading in sewers.	
6.3.	Methods and material for containme	nt and cleaning up
For cor	itainment	Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Dam up the liquid spill. Try to reduce evaporation. Measure the concentration of the explosive gas-air mixture. Dilute/disperse combustible gas/vapour with water curtain. Provide equipment/receptacles with earthing. Do not use compressed air for pumping over spills
Methoo	ls for cleaning up	Take up liquid spill into absorbent material, e.g.: dry sand/earth/vermiculite or powdered limestone. Scoop absorbed substance into closing containers. Damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling
6.4.	Reference to other sections	
For furth	er information refer to section 8: "Exposu	ire controls/personal protection".
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	

Additional hazards when processed	: May form explosive peroxides.
Precautions for safe handling	: Use spark-/explosion proof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly. Work under local exhaust/ventilation. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Handle uncleaned empty containers as full ones. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Do not use compressed air for pumping over. Keep container tightly closed.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, including	any incompatibilities
Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
	Handle and store under inert gas. Hygroscopic. Storage class (TRGS 510): 3: Flammable liquids

S	SECTION 8: Exposure controls/personal protection			
8.	1. Control parameters			
	Isopropyl Alcohol (67-63-0)			
	ACGIH	Local name	Isopropyl Alcohol	
	ACGIH	ACGIH TWA	200 ppm	
	ACGIH	ACGIH STEL	400 ppm	
	NIOSH	NIOSH REL (TWA)	980 mg/m³	
	NIOSH	NIOSH REL (TWA)	400 ppm	
[	NIOSH	NIOSH REL (STEL)	1225 mg/m <sup>3</sup>	

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Isopropyl Alcohol (67-63-0)		
NIOSH	NIOSH REL (STEL)	500 ppm
OSHA	OSHA PEL (TWA)	980 mg/m³
OSHA	OSHA PEL (TWA)	400 ppm

### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation

8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves against chemicals (EN 374)

#### Eye protection:

Safety glasses

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#### Skin and body protection:

Wear suitable protective clothing

### **Respiratory protection:**

Wear respiratory protection. High gas/vapor concentration: gas mask with filter type A

<b>SECTION 9: Physical and chemical</b>	properties
9.1. Information on basic physical and	
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: Colorless
Odor	: characteristic, Alcohol odor, Stuffy odor Mild odor
Odor threshold	: No data available
рН	: No data available
Melting point	: -89.5 °C
Freezing point	: No data available
Boiling point	: 81.0 - 83.0 °C
Flash point	: 12.0 °C closed cup
Relative evaporation rate (butyl acetate=1)	: 3.0
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 43.2 hPa (at 20 °C)
Relative vapor density at 20 °C	: No data available
Relative density	: 0. 8 (at 20 °C)
Specific gravity / density	: 785 kg/m³
Molecular mass	: 60.1 g/mol
Solubility Log Pow	<ul> <li>Miscible with water. Soluble in ethanol. Soluble in ether. Soluble in acetone. Soluble in oils/fats. Soluble in chloroform. Water: miscible</li> <li>Ethanol: complete</li> <li>Ether: complete</li> <li>Acetone: soluble</li> <li>0.05 (Weight of evidence approach, 25 °C)</li> </ul>
Auto-ignition temperature	: 399 °C
Decomposition temperature	: No data available
Viscosity, kinematic	: 2.532 mm²/s (25 °C)
Viscosity, dynamic	: 2.1 mPa·s (25 °C)
Explosion limits	: LEL: 2 vol % UEL: 13 vol %
Explosive properties	: No data available

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Oxidizing properties	: No data available
9.2. Other information	
Minimum ignition energy	: 0.65 mJ
Specific conductivity	: 35000000 pS/m (25 °C)
Saturation concentration	: 106 g/m <sup>3</sup>
VOC content	: 100 %
Other properties	: Gas/vapour heavier than air at 20°C. Clear. Volatile.

# SECTION 10: Stability and reactivity

### 10.1. Reactivity

Violent to explosive reaction with (strong) oxidizers. Prolonged storage/in large quantities: may form peroxides.

## 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

May react violently with oxidants.

### 10.4. Conditions to avoid

Direct sunlight. High temperature. Incompatible materials. Open flame. Sparks.

### 10.5. Incompatible materials

Ammonia. Strong acids. Strong oxidizers.

## 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity

: Not classified

Isopropyl Alcohol (67-63-0)	
LD50 oral rat	5840 mg/kg body weight
LD50 dermal rabbit	16400 mg/kg body weight
LC50 inhalation rat (ppm)	>10000 ppm
ATE US (oral)	5840 mg/kg body weight
ATE US (dermal)	16400 mg/kg body weight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	: Not classified.
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: EXPOSURE TO HIGH CONCENTRATIONS: Coughing. Dry/sore throat. Central nervous system depression. Dizziness. Headache. Narcosis.
Symptoms/effects after skin contact	: Dry skin.
Symptoms/effects after eye contact	: Irritation of the eye tissue. Redness of the eye tissue.
Symptoms/effects after ingestion	: AFTER ABSORPTION OF LARGE QUANTITIES: Central nervous system depression. Headache. Dilation of the blood vessels. Low arterial pressure. Nausea. Vomiting. Abdominal pain. Disturbed motor response. Disturbances of consciousness. FOLLOWING SYMPTOMS MAY APPEAR LATER: Body temperature fall. Slowing respiration.
Chronic symptoms	: Red skin. Dry skin. Itching. Cracking of the skin. Skin rash/inflammation. Impaired memory.

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SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.
Ecology - air	: Not included in the list of substances which may contribute to the greenhouse effect (IPCC).
	Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014).
	Photooxidation in the air. Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Not harmful to crustacea. Not harmful to fishes. Groundwater pollutant. Inhibition of activated
	sludge. Not harmful to algae. Not harmful to bacteria.
Isopropyl Alcohol (67-63-0)	
LC50 fish 1	9640 – 10000 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow- through system, Fresh water, Experimental value, Lethal)

#### 12.2. Persistence and degradability

Isopropyl Alcohol (67-63-0)	
Persistence and degradability	Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	1.19 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2.23 g O <sub>2</sub> /g substance
ThOD	2.4 g O <sub>2</sub> /g substance
12.3. Bioaccumulative potential	
Isopropyl Alcohol (67-63-0)	

Log Pow	0.05 (Weight of evidence approach, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4)

#### 12.4. Mobility in soil

Isopropyl Alcohol (67-63-0)	opropyl Alcohol (67-63-0)	
Surface tension	0.021 N/m (25 °C)	
Log Koc	0.185 – 0.541 (log Koc, SRC PCKOCWIN v2.0, Calculated value)	
Ecology - soil	Highly mobile in soil.	

#### Other adverse effects 12.5.

No additional information available

SECTION 13: Disposal considerations		
13.1. Disposal methods		
Waste disposal recommendations	: Do not discharge into drains or the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Incinerate under surveillance with energy recovery. Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.	
Waste treatment methods	: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra	
	care in igniting as this material is highly flammable. Offer surplus and non-recyclable	
	solutions to a licensed disposal company. Contact a licensed professional waste disposal	
	service to dispose of this material.	
Additional information	: Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997	

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## **SECTION 14: Transport information**

Department of Transportation (DOT) In accordance with DOT	
Transport document description	: UN1219 Isopropyl alcohol, 3, Il
UN-No.(DOT)	: UN1219
Proper Shipping Name (DOT)	: Isopropyl alcohol
Class (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	: II - Medium Danger
Hazard labels (DOT)	: 3 - Flammable liquid
	PLANARE ELIQUID
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	<ul> <li>IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 4b;150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Other information	: No supplementary information available.
Transportation of Dangerous Goods	
Transport document description	: UN1219 ISOPROPANOL, 3, II
UN-No. (TDG)	: UN1219
Proper Shipping Name (Transportation of Dangerous Goods)	: ISOPROPANOL
TDG Primary Hazard Classes	: 3 - Class 3 - Flammable Liquids
Packing group	: II - Medium Danger
Explosive Limit and Limited Quantity Index	: 1L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 5L
Transport by sea	
Transport document description (IMDG)	: UN 1219 Isopropyl alcohol, 3, II
UN-No. (IMDG)	: UN1219
Proper Shipping Name (IMDG)	: Isopropyl alcohol
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: II - substances presenting medium danger
EmS-No. (1)	: F-E

EmS-No. (2)

: S-D

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### Air transport

Transport document description (IATA)	: UN 1219 Isopropyl alcohol, 3, II
UN-No. (IATA)	: 1219
Proper Shipping Name (IATA)	: Isopropyl alcohol
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: II - Medium Danger

# SECTION 15: Regulatory information

Isopropyl Alcohol (67-63-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313		
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Serious eye damage or eye irritation Health hazard - Specific target organ toxicity (single or repeated exposure)	

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

### 15.2. International regulations

## CANADA

	Isopropyl Alcohol (67-63-0)
	No additional information available
Е	U-Regulations
	Isopropyl Alcohol (67-63-0)

No additional information available

### **National regulations**

Isopropyl Alcohol (67-63-0)
No additional information available

# 15.3. US State regulations

Isopropyl Alcohol (67-63-0)	
U.S California - Proposition 65 - Carcinogens List	This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm.
State or local regulations	No additional information available

# **SECTION 16: Other information**

Revision date

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#### Full text of H-phrases:

H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H335	May cause respiratory irritation

SDS US (GHS HazCom 2012)

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