

SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 14-Feb-2020

Revision Number 2

1. Identification

Product Name

Isopropyl acetate

Cat No. :

L09337

CAS-No Synonyms 108-21-4 2-Acetoxypropane; 2-Propyl Acetate.

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

<u>Company</u>

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Central nervous system (CNS).

Label Elements

Signal Word Danger

Danger

Hazard Statements

Highly flammable liquid and vapor Causes serious eye irritation May cause drowsiness or dizziness Category 2 Category 2 Category 3



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area 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 Wear protective gloves/protective clothing/eye protection/face protection Keep cool Inhalation 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 Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Eves 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 Fire In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Repeated exposure may cause skin dryness or cracking

3. Composition/Information on Ingredients

Component	Weight %			
Isopropyl acetate		108-21-4	>95	
	4.	First-aid measures		
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. medical attention.		ne eyelids, for at least 15 minutes. Get		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.			
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.			
Ingestion	Do NOT induce vomiting. Get medical attention.			
Most important symptoms and effects	Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting			

Notes to Physician Treat symptomatically 5. Fire-fighting measures Carbon dioxide (CO₂). Dry chemical. Water mist may be used to cool closed containers. Suitable Extinguishing Media Chemical foam. Water mist may be used to cool closed containers. **Unsuitable Extinguishing Media** No information available 4 °C / 39.2 °F **Flash Point** Method -No information available **Autoignition Temperature** 460 °C / 860 °F **Explosion Limits** 7.2% Upper 1.76% Lower Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available **Specific Hazards Arising from the Chemical** Flammable. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air. **Hazardous Combustion Products** Carbon monoxide (CO). Carbon dioxide (CO₂). **Protective Equipment and Precautions for Firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. NFPA Physical hazards Health Flammability Instability 2 3 0 N/A

	6. Accidental release measures
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
Environmental Precautions	See Section 12 for additional Ecological Information.
Methods for Containment and Clea Up	n Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.
	7. Handling and storage
Handling	Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Take precautionary measures against static discharges. Handle product only in closed system or provide appropriate exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Wash hands before breaks and immediately after handling the product.
Storage	Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Keep away from heat, sparks and flame. Flammables area. Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Isopropyl acetate	TWA: 100 ppm	(Vacated) TWA: 250 ppm	IDLH: 1800 ppm	TWA: 100 ppm
	STEL: 150 ppm	(Vacated) TWA: 950 mg/m ³		STEL: 200 ppm
		(Vacated) STEL: 310 ppm		
		(Vacated) STEL: 1185		
		mg/m ³		
		TWA: 250 ppm		
		TWA: 950 mg/m ³		

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash station and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting/equipment.	
Personal Protective Equipment		
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
Respiratory Protection	No protective equipment is needed under normal use conditions.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties

7. FTIYSICC	a and chemical properties
Physical State	Liquid
Appearance	Colorless
Odor	vinegar-like
Odor Threshold	0.5 - 42 ppm
рН	No information available
Melting Point/Range	-73 °C / -99.4 °F
Boiling Point/Range	88.8 °C / 191.8 °F
Flash Point	4 °C / 39.2 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	7.2%
Lower	1.76%
Vapor Pressure	61 mbar @ 20 °C
Vapor Density	3.5
Specific Gravity	0.872
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	460 °C / 860 °F
Decomposition Temperature	No information available
Viscosity	0.49 cP at 25 °C
Molecular Formula	C5 H10 O2
Molecular Weight	102.13
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	10 Stabi	lity and ray			
	10. 51801	lity and rea	activity		
Reactive Hazard	None known, based	d on information a	available		
Stability	Stable under norma	al conditions. Moi	sture sensitive.		
Conditions to Avoid		Keep away from open flames, hot surfaces and sources of ignition. Incompatible products. Exposure to moist air or water.			
Incompatible Materials	Acids, Bases	Acids, Bases			
Hazardous Decomposition Prod	l ucts Carbon monoxide (CO), Carbon dio	kide (CO ₂)		
Hazardous Polymerization	Hazardous polymer	ization does not	occur.		
Hazardous Reactions	None under normal	processing.			
	11. Toxico	logical info	ormation		
Acute Toxicity					
Product Information Component Information	No acute toxicity inf	formation is avail	able for this product		
Component Isopropyl acetate	LD50 Oral LD50 = 3000 mg/kg (Ra	at) ID50 > 7	LD50 Dermal		Inhalation g/m³, 8h (Rat)
Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure					
Irritation	Irritating to eyes				
Sensitization	zation No information available				
Carcinogenicity	The table below ind	licates whether e	ach agency has listed	l any ingredient a	as a carcinogen.
Component CAS-No Isopropyl acetate 108-21-4		NTP Not listed	ACGIH Not listed	OSHA Not listed	Mexico Not listed
Mutagenic Effects	No information avai		Notlisted	Not listed	Not listed
Reproductive Effects	No information avai	lable.			
Developmental Effects	No information avai	lable.			
Teratogenicity	No information available.				
STOT - single exposure STOT - repeated exposure					
Aspiration hazard No information available					
Symptoms / effects,both acute and Inhalation of high vapor concentrations may cause symptoms like headache, dizziness delayed tiredness, nausea and vomiting			he, dizziness,		
Endocrine Disruptor Information	n No information avai	lable			
Other Adverse Effects	The toxicological pr	operties have no	t been fully investigat	ed.	
	12. Ecolo	gical infor	mation		

Ecotoxicity

Do not empty into drains. .

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea	
Isopropyl acetate	Not listed	265 mg/l LC50 48h	Not listed	EC50: = 1260 mg/L, 24h (Daphnia magna)	
Persistence and Degradat	pility Persistence i	Persistence is unlikely based on information available.			

Persistence and Degradability Bioaccumulation/ Accumulation

No information available.

Mobility

Will likely be mobile in the environment due to its volatility.

Component	log Pow
Isopropyl acetate	1.03

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT	
UN-No	UN1220
Proper Shipping Name	ISOPROPYL ACETATE
Hazard Class	3
Packing Group	II
TDG	
UN-No	1220
Proper Shipping Name	ISOPROPYL ACETATE
Hazard Class	3
Packing Group	II
IATA	
UN-No	UN1220
Proper Shipping Name	ISOPROPYL ACETATE
Hazard Class	3
Packing Group	II
IMDG/IMO	
UN-No	UN1220
Proper Shipping Name	ISOPROPYL ACETATE
Hazard Class	3
Packing Group	II
	15. Regulatory information
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United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Isopropyl acetate	108-21-4	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Isopropyl acetate	108-21-4	Х	-	203-561-1	Х	Х	Х	Х	KE-21670

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Isopropyl acetate	Х	Х	Х	-	Х

U.S. Department of Transportation

Other International Regulations				
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.			
DOT Marine Pollutant DOT Severe Marine Pollutant	N N			
Reportable Quantity (RQ).	IN			

Mexico - Grade

No information available

16. Other information				
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com			
Creation Date	22-Sep-2009			
Revision Date	14-Feb-2020			
Print Date	14-Feb-2020			
Revision Summary	SDS authoring systems update, replaces ChemGes SDS No. 108-21-4/2.			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS