

SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 29-Mar-2024

Revision Number 3

1. Identification

Product Name

Isopropyl acetate

Cat No. : L09337

CAS No Synonyms

Recommended Use Uses advised against 2-Acetoxypropane; 2-Propyl Acetate.

 Laboratory chemicals.

 St
 Food, drug, pesticide or biocidal product use.

108-21-4

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

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). Category 2 Category 2 Category 3

Label Elements

Signal Word Danger

Hazard Statements

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



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

Eyes

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		CAS No	Weight %
Isopropyl acetate		108-21-4	>95
	4		
	4. FIrst-	aid measures	
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Gemedical attention.			der the 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	Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms l		concentrations may cause symptoms like

effects Notes to Physician	headache, dizziness, tiredness, nausea and vomiting Treat symptomatically
	5. Fire-fighting measures
Suitable Extinguishing Media	Carbon dioxide (CO $_2$). Dry chemical. Water mist may be used to cool closed containers. Chemical foam. Water mist may be used to cool closed containers.
Unsuitable Extinguishing Media	No information available
Flash Point	4 °C / 39.2 °F
Method -	No information available
Autoignition Temperature	460 °C / 860 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	

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.

<u>NFPA</u>	Health 2	Flammability 3	Instability 0	Physical hazards N/A
		6. Accidental rel	ease measures	
Personal Pr	ecautions			dequate ventilation. Remove all
Environmer	ntal Precautions	See Section 12 for addition	ecautionary measures against al Ecological Information.	static discharges.
Methods for Up	r Containment and Cle	Clean 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 a	and storage	
Handling		measures against static dis appropriate exhaust ventila only non-sparking tools. Ke To avoid ignition of vapors	charges. Handle product only tion. Use spark-proof tools and ep away from open flames, ho by static electricity discharge, a	bors/spray. Take precautionary in closed system or provide d explosion-proof equipment. Use t surfaces and sources of ignition. all metal parts of the equipment diately after handling the product.
Storage.		from heat, sparks and flam	I-ventilated place. Keep contai e. Flammables area. Keep con npatible Materials. Acids. Bas	tainer tightly closed in a dry and

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	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: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations 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.	
Recommended Filter type:	Organic gases and vapours filter. conforming to EN371.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical 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

10. Stability and reactivity		
Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions. Moisture 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	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information Component Information	No acute toxicity information	on is available for this product	
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl acetate	LD50 = 3000 mg/kg(Rat)	LD50 > 17436 mg/kg (Rabbit)	50600 mg/m ³ , 8h (Rat)
Toxicologically Synergistic Products	No information available	· · · · ·	

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

Irritating to eyes

Sensitization

No information available

Carcinogenicity

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Isopropyl acetate	108-21-4	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	S	No information ava	ailable.			
Developmental Effe	cts	No information available.				
Teratogenicity		No information available.				
STOT - single expos STOT - repeated exp		Central nervous system (CNS) None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	d Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting			he, dizziness,	
Endocrine Disrupto	r Information	No information available				
Other Adverse Effect	cts	The toxicological properties have not been fully investigated.				

12. Ecological information

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	Not listed
Persistence and Degrada	ability Persistence i	s unlikely based on inform	ation available.	

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
<u>TDG</u>	
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	
	15. Regulatory information

formation

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 US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

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

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

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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	X	-	X
J.S. Department of Trans	nortation				
Reportable Quantity (RQ):					
OT Marine Pollutant	N				
OT Severe Marine Polluta					
J.S. Department of Home	aland This pro	duct does not conta	in any DHS chemicals.		
Security	eland mis pro	duct does not conta	In any DHS chemicals.		
Other International Regul	lations				
lexico - Grade	No infor	mation available			

Component	CAS No	REACH (1907/2006) -	REACH (1907/2006) -	REACH Regulation (EC

		Annex XIV - Substances Subject to Authorization	U U	1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Isopropyl acetate	108-21-4	-	Use restricted. See item 75. (see link for restriction details)	-

REACH links

https://echa.europa.eu/substances-restricted-under-reach

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Isopropyl acetate	108-21-4	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Isopropyl acetate	108-21-4	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information			
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com			
Creation Date	22-Sep-2009			
Revision Date	29-Mar-2024			
Print Date 29-Mar-2024				
Revision Summary	New emergency telephone response service provider.			
Disalaiman				

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