

SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 24-Dec-2021

Revision Number 4

1. Identification Isopropyl acetate

Cat No. : AC150860000; AC150860010; AC150860025; AC150860050; AC150860250

CAS No Synonyms

Product Name

108-21-4 2-Acetoxypropane; 2-Propyl Acetate.

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **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

Inhalation

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. First-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes medical attention.			
Skin Contact Wash off immediately with plen		nediately with plenty of water for at lea	st 15 minutes. Get medical attention.	

Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Ingestion Do NOT induce vomiting. Get medical attention.

Storage.

Most important symptoms and effects Notes to Physician	Difficulty in breathing. Inhalation headache, dizziness, tiredness, r Treat symptomatically		nay cause symptoms like	
	5. Fire-fighting n	neasures		
Suitable Extinguishing Media	Carbon dioxide (CO 2). Dry chem Chemical foam. Water mist may			
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 Impact Sensitivity to Static Discharge	7.2% 1.76% No information available 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 (CO ₂). 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 Health 2	Flammability 3	Instability 0	Physical hazards 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.		

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and flame. Flammables area. Keep container tightly closed in a dry and

well-ventilated place. Incompatible Materials. Acids. Bases.

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 sta 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

	· · · ·
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 Effects		No information available.				
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information available.				
STOT - single exposure STOT - repeated exposure		Central nervous system (CNS) None known				
Aspiration hazard		No information available				
Symptoms / effects,both acute and delayed		Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting				
Endocrine Disruptor Information		No information available				
Other Adverse Effects		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
TDG	
UN-No	1220
Proper Shipping Name	ISOPROPYL ACETATE
Hazard Class	3
Packing Group	II
ΙΑΤΑ	
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 Degulatory

15. Regulatory information

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 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	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	X	Х	Х	-	Х

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland	This product does not contain any DHS chemicals.
Security	

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	U (
Isopropyl acetate	-	Use restricted. See item 75. (see link for restriction details)	-

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

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

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Creation Date Revision Date Print Date Revision Summary 22-Sep-2009 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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