

# SAFETY DATA SHEET

Creation Date 16-Feb-2015

Revision Date 29-Mar-2024

**Revision Number** 4

1. Identification

# **Product Name**

# Propyl acetate

109-60-4

Cat No. : L15355

CAS No Synonyms

Recommended Use Uses advised against

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

1-Propyl Acetate.; Acetic Acid N-Propyl Ester

# 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 %	
n-Propyl acetate			109-60-4	>95	
		4. F	First-aid measures		
Eye Contact		Rinse immedia medical attent	, , ,	r the eyelids, for at least 15 minutes. Get	
Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical a symptoms occur.			ast 15 minutes. Get medical attention if		
Inhalation		Remove to fre occur.	sh air. If breathing is difficult, give o	xygen. Get medical attention if symptoms	
Ingestion		Do NOT induc	e vomiting. Get medical attention.		

Most important symptoms and effects Notes to Physician	Difficulty in breathing. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting Treat symptomatically			
	5. Fire-fighting measures			
Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.			
Unsuitable Extinguishing Media	No information available			
Flash Point	10 °C / 50 °F			
Method -	No information available			
Autoignition Temperature	450 °C / 842 °F			
Explosion Limits				
Upper	8.0 vol %			
Lower	1.8 vol %			
Sensitivity to Mechanical Impac	t No information available			
Sensitivity to Static Discharge	No information available			

# **Specific Hazards Arising from the Chemical**

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

# 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 re	lease measures	
Personal Precautions		uipment as required. Remove gainst static discharges. Ensur slothing.	5
<b>Environmental Precautions</b>		nment. See Section 12 for add	litional Ecological Information.
Methods for Containment and C	lean Remove all sources of igni	tion. Soak up with inert absorb	ent material. Keep in suitable,

Up	closed containers for disposal. Use spark-proof tools and explosion-proof equipment.
	7 Llondling and storage

	7. Handling and storage		
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Use spark-proof tools and explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.		
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Flammables area. Incompatible Materials. Acids. Bases. Strong oxidizing agents.		

# 8. Exposure controls / personal protection

# Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
n-Propyl acetate	TWA: 100 ppm	(Vacated) TWA: 200 ppm	IDLH: 1700 ppm	TWA: 200 ppm
	STEL: 150 ppm	(Vacated) TWA: 840 mg/m <sup>3</sup>	TWA: 200 ppm	STEL: 250 ppm
		(Vacated) STEL: 250 ppm	TWA: 840 mg/m <sup>3</sup>	
		(Vacated) STEL: 1050	STEL: 250 ppm	
		mg/m <sup>3</sup>	STEL: 1050 mg/m <sup>3</sup>	
		TWA: 200 ppm	-	
		TWA: 840 mg/m <sup>3</sup>		

#### <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. Use explosion-proof electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers are close to the workstation location.
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	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Colorless
Odor	sweet
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-95 °C / -139 °F
Boiling Point/Range	102 °C / 215.6 °F @ 760 mmHg
Flash Point	10 °C / 50 °F
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	8.0 vol %
Lower	1.8 vol %
Vapor Pressure	33 mbar @ 20 °C
Vapor Density	3.5 (Air = 1.0)
Specific Gravity	0.880
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	450 °C / 842 °F
Decomposition Temperature	No information available
Viscosity	0.58 mPa s at 20 °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.			
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products. Excess heat.			
Incompatible Materials Acids, Bases, Strong oxidizing agents				
Hazardous Decomposition Produc	cts Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )			
Hazardous Polymerization Hazardous polymerization does not occur.				
Hazardous Reactions	None under normal processing.			
11. Toxicological information				

Acute Toxicity

# Product Information

Componer	nt l	LD50 Oral	LD50 Oral LD50 Dermal		LC50	Inhalation	
		LD50 = 8700 mg/kg (Rat		LD50 > 17756 mg/kg (Rabbit)		LC50 = 32 mg/L (Rat) 4 h	
oxicologically Syn Products	ergistic	No information availa	able		- 1		
Delayed and immed	liate effects	as well as chronic effects	s from short an	<u>d long-term exposu</u>	ire		
rritation		Irritating to eyes					
Sensitization		No information availa	able				
Carcinogenicity		The table below indic	cates whether ea	ach agency has listed	any ingredient	as a carcinoge	
Component	CAS No	D IARC	NTP	ACGIH	OSHA	Mexico	
n-Propyl acetate	109-60-	4 Not listed	Not listed	Not listed	Not listed	Not listed	
Reproductive Effects Developmental Effects Teratogenicity STOT - single exposure STOT - repeated exposure		No information availa	No information available. No information available. Central nervous system (CNS)				
Aspiration hazard		No information availa	No information available				
Symptoms / effects,both acute and delayed		5 1	<b>d</b> Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting				
Endocrine Disruptor Information		n No information availa	No information available				
	Other Adverse Effects						

# 12. Ecological information

# Ecotoxicity

This product contains the following substance(s) which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
n-Propyl acetate	Not listed	LC50: 56 - 64 mg/L, 96h static (Pimephales promelas) LC50: 56 - 64 mg/L, 96h flow-through (Pimephales promelas)	Not listed	Not listed
Persistence and Degradabi	lity No informa	ation available	·	•
Bioaccumulation/ Accumul	ation No information	ation available.		
Mobility	No informa	ation available.		
С	omponent		log Pow	
n-P	ropyl acetate		1.4	
	10 5	N		
		Disposal consider		
Waste Disposal Methods	hazardous national ha	waste generators must deter waste. Chemical waste ger azardous waste regulations to Transport inform	nerators must also consult o ensure complete and ac	local, regional, and
DOT				
UN-No Proper Shipping Name Hazard Class Packing Group	UN1276 N-PROPY 3 II	LACETATE		
<u>TDG</u> UN-No Proper Shipping Name Hazard Class Packing Group	UN1276 N-PROPY 3 II	L ACETATE		
IATA UN-No Proper Shipping Name Hazard Class Packing Group	UN1276 n-PROPYL 3 II	ACETATE		
IMDG/IMO UN-No Proper Shipping Name Hazard Class	UN1276 PROPYL A 3	ACETATE		
Packing Group				
	4 -	Regulatory inform		

# United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
n-Propyl acetate	109-60-4	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
n-Propyl acetate	109-60-4	Х	-	203-686-1	Х	Х	Х	Х	Х	KE-29778

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
<b>OSHA</b> - 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
n-Propyl acetate	Х	Х	Х	-	Х

<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

# Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
n-Propyl acetate	109-60-4	-	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)
n-Propyl acetate	109-60-4	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)
n-Propyl acetate	109-60-4	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 Revision Date Print Date Revision Summary	16-Feb-2015 29-Mar-2024 29-Mar-2024 New emergency telephone response service provider.
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