

SAFETY DATA SHEET

Creation Date 16-Nov-2009

Revision Date 24-Dec-2021

Revision Number 4

1. Identification **Product Name** n-Butyl propionate Cat No. : AC269480000; AC269480010; AC269480050; AC269481000; AC269482500 CAS No 590-01-2 Synonyms Propionic acid, butyl ester; Butyl propanoate; Butyl propionate **Recommended Use** Laboratory chemicals. Uses advised against 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 Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 3 Category 3

Label Elements

Signal Word Warning

Hazard Statements Flammable liquid and vapor May cause respiratory irritation



Precautionary Statements Prevention

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 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

Dispose of contents/container to an approved waste disposal pla

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %				
Butyl propionate		590-01-2	>95				
	4.	First-aid measures					
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 min medical attention.							
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.						
Inhalation	Remove to fr	esh air. Get medical attention. If not bro	eathing, give artificial respiration.				
Ingestion	Do NOT induce vomiting. Get medical attention.						
Most important symptoms and effects Notes to Physician	Difficulty in breathing. Symptoms of overexposure may be headache, dizziness, tiredness nausea and vomiting Treat symptomatically						
5. Fire-fighting measures							

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.
No information available
38 °C / 100.4 °F
No information available
426 °C / 798.8 °F
No data available No data available ct No information available No information available

Specific Hazards Arising from the Chemical Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

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. Thermal decomposition can lead to release of irritating gases and vapors.

<u>NFPA</u>	Health 2	Flammability 2	Instability 0	Physical hazards N/A			
		6. Accidental rel	ease measures				
Personal	Precautions		uipment as required. Remove	all sources of ignition. Take			
Environm	ental Precautions	precautionary measures ag Should not be released into Information.	ainst static discharges. the environment. See Section	12 for additional Ecological			
Methods Up	for Containment and Cle	ean Soak up with inert absorbe Remove all sources of ignit	nt material. Keep in suitable, cl ion. Use spark-proof tools and				
		7. Handling a	and storage				
Handling		Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges.					
Storage.				ilated place. Flammables area. aterials. Strong oxidizing agents.			
	8.	Exposure controls /	personal protection	on			
Exposure	Guidelines		in any hazardous materials wi ion specific regulatory bodies.	th occupational exposure			
Engineeri	ng Measures		ns and safety showers are clos n, especially in confined areas.				

	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	aromatic
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-75 °C / -103 °F
Boiling Point/Range	145 °C / 293 °F @ 760 mmHg
Flash Point	38 °C / 100.4 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	4.6 hPa @ 20 °C
Vapor Density	4.49
Specific Gravity	0.880
Solubility	Alcohol Ether
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	426 °C / 798.8 °F
Decomposition Temperature	No information available
Viscosity	0.83 cP at 20 °C
Molecular Formula	C7 H14 O2
Molecular Weight	130.19

10. Stability and reactivity

Reactive Hazard	None known, based on information available					
Stability	Stable under normal conditions.					
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.					
Incompatible Materials	Strong oxidizing agents					
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)						
Hazardous Polymerization	Hazardous polymerization does not occur.					
Hazardous Reactions	None under normal processing.					
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Acute Toxicity

Product Information

Product Information								
Component Informa		LD50 Oral		LD50 Dermal	L C50 I	nhalation		
Butyl propion		LD50 = 12344 mg/kg (F	Rat) LD50 =	14008 mg/kg (Rabbit)		mg/L (Rat)6h		
Toxicologically Syn Products Delayed and immed	-	No information ava		nd long-term exposu	·			
Irritation		No information ava	ilable					
Sensitization No information available								
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcin								
Component	CAS N		NTP	ACGIH	OSHA	Mexico		
Butyl propionate Mutagenic Effects	590-01-	-2 Not listed No information ava	Not listed ilable	Not listed	Not listed	Not listed		
Reproductive Effect	ts	No information ava	ilable.					
Developmental Effe	ects	No information ava	ilable.					
Teratogenicity		No information ava	ilable.					
STOT - single exposision STOT - repeated ex		Respiratory system None known	1					
Aspiration hazard No information available								
Symptoms / effects delayed	s,both acute	e and Symptoms of overe	exposure may be	headache, dizziness, t	tiredness, nause	ea and vomiting		
Endocrine Disrupto	or Informatio	on No information ava	ilable					
Other Adverse Effe	cts	The toxicological p	roperties have no	ot been fully investigate	ed.			
		12. Ecolo	ogical info	rmation				
Ecotoxicity								
Persistence and De	gradability	Soluble in water Pe	ersistence is unlil	kely based on informati	on available.			
Bioaccumulation/ A	ccumulatio	n No information ava	ilable.					
Mobility	Mobility Will likely be mobile in the environment due to its water solubility.							
		13. Dispos	sal consid	erations				
Waste Disposal Me								
		14. Tran	sport infor	mation				
DOT UN-No Proper Shipping Hazard Class Packing Group TDG								

UN-No Proper Shipping Name Hazard Class	UN1914 BUTYL PROPIONATES 3
Packing Group	III
IATA	
UN-No	UN1914
Proper Shipping Name	Butyl propionates
Hazard Class	3
Packing Group	III
IMDG/IMO	
UN-No	UN1914
Proper Shipping Name	Butyl propionates
Hazard Class	3
Packing Group	III
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Butyl propionate	590-01-2	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
Butyl propionate	590-01-2	Х	-	209-669-5	Х	Х	Х	Х	Х	KE-04363

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

U.S. Federal Regulations

SARA 313	Not app	Not applicable						
SARA 311/312 Hazard Categories	See sec	See section 2 for more information						
CWA (Clean Water Act)	Not app	licable						
Clean Air Act	Not app	licable						
OSHA - Occupational Safety and Health Administration	Not app	Not applicable						
CERCLA	Not app	licable						
California Proposition 65	This pro	oduct does not contai	n any Proposition 65	chemicals.				
U.S. State Right-to-Know Regulations								
Component Massa	chusetts	New Jersey	Pennsylvania	Illinois	Rhode Island			

Butyl propionate	Х	Х	Х	-	-		
U.S. Department of TransportationReportable Quantity (RQ):NDOT Marine PollutantNDOT Severe Marine PollutantN							
U.S. Department of Hom Security		roduct does not contai	n any DHS chemicals	3.			
Other International Regu	llations						
Mexico - Grade	Mode	ate risk, Grade 2					

Authorisation/Restrictions according to EU 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)
Butyl propionate	590-01-2	Listed	Not applicable	Not applicable	Not applicable

Component		for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements		Basel Convention (Hazardous Waste)
Butyl propionate	590-01-2	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	16-Nov-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