# ThermoFisher SCIENTIFIC

SAFETY DATA SHEET

Creation Date 09-May-2012

Revision Date 24-Dec-2021

Revision Number 4

1. Identification				
Product Name	1-lodobutane, stabilized			
Cat No. :	AC173430000; AC173430050; AC173431000; AC173435000			
CAS No Synonyms	542-69-8 Butyl iodide			
Recommended Use Laboratory chemicals.   Uses advised against Food, drug, pesticide or biocidal product use.				
Details of the supplier of the safet	y 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 <b>US</b> call: 001-800-ACROS-01 / <b>Europe</b> call: +32 14 57 52 11 Emergency Number <b>US</b> :001-201-796-7100 / <b>Europe:</b> +32 14 57 52 99 CHEMTREC Tel. No. <b>US</b> :001-800-424-9300 / <b>Europe:</b> 001-703-527-3887			

# 2. Hazard(s) identification

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

Flammable liquids	Category 3
Acute Inhalation Toxicity - Vapors	Category 3
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

# Label Elements

Signal Word Danger

### Hazard Statements Flammable liquid and vapor

Causes skin irritation

### 1-lodobutane, stabilized

Revision Date 24-Dec-2021

### Causes serious eye irritation Toxic if inhaled May cause respiratory irritation



# Precautionary Statements

Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
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
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
Skin
If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse
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)
None identified

Compone	ent CAS No	Weight %	
1-lodobuta	ane 542-69-8	>95	
General Advice	Show this safety data sheet to the doctor in attenda required.	ance. Immediate medical attention is	
	required.		
Eye Contact	Rinse immediately with plenty of water, also under	the eyelids, for at least 15 minutes. I	

Page 2/8

1-lodobutane, stabilized			Revision Date 24-Dec-202				
	the case of contact with eye advice.	s, rinse immediately with plen	ty of water and seek medical				
Skin Contact	Wash off immediately with p attention is required.	lenty of water for at least 15 r	ninutes. Immediate medical				
nhalation	substance; give artificial res	piration with the aid of a pock atory medical device. Immedia	if victim ingested or inhaled the et mask equipped with a one-way ate medical attention is required. I				
ngestion	Do NOT induce vomiting. Call a physician or poison control center immediately.						
Most important symptoms and effects Notes to Physician	Difficulty in breathing. Sympous and vomiting Treat symptomatically	otoms of overexposure may b	e headache, dizziness, tiredness,				
	5. Fire-fightin	g measures					
Suitable Extinguishing Media	Water spray, carbon dioxide be used to cool closed conta		-resistant foam. Water mist may				
Jnsuitable Extinguishing Media	No information available						
Flash Point	33 °C / 91.4 °F						
Method -	No information available						
Autoignition Temperature Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge							
Specific Hazards Arising from the C Flammable. Vapors may travel to sour explosive mixtures with air.		Containers may explode whe	n heated. Vapors may form				
Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxic Protective Equipment and Precautio As in any fire, wear self-contained bre- protective gear. Thermal decomposition	ons for Firefighters athing apparatus pressure-de		red or equivalent) and full				
NFPA_ Health 3	Flammability 3	Instability 1	Physical hazards N/A				
	6. Accidental rel	ease measures					
Personal Precautions Environmental Precautions	away from and upwind of sp of ignition. Take precautiona						
Methods for Containment and Clear Up		tainers for disposal. Soak up on. Use spark-proof tools and					

1-lodobutane, stabilized	Revision Date 24-Dec-2021
	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and flame. Protect from direct sunlight. Incompatible Materials. Bases. Strong oxidizing agents.
	Exposure controls / personal protection
Exposure Guidelines	
Legend	
ACGIH - American Conference of Gove OSHA - Occupational Safety and Health NIOSH IDLH: NIOSH - National Institu	h Administration
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	Tight sealing safety goggles. Face protection shield.
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	Light yellow
Odor	No information available No information available
Odor Threshold	No information available
pH Melting Point/Range	-103 °C / -153.4 °F
Boiling Point/Range	130 - 131 °C / 266 - 267.8 °F @ 760 mmHg
Flash Point	33 °C / 91.4 °F
Evaporation Rate	No information available
Flammability (solid,gas) Flammability or explosive limits	Not applicable
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available 1.610
Specific Gravity Solubility	1.610 No information available
Partition coefficient; n-octanol/wa	
Autoignition Temperature	No information available

	ized					Revision I	Date 24-Dec-202		
Decomposition Tempe Viscosity Molecular Formula Molecular Weight	erature		No C4		ion available ion available				
		10. Stabili	ity ar	nd rea	ctivity				
Reactive Hazard		None known, based	on infori	mation av	ailable				
Stability		Stable under normal	conditic	ons. Light	sensitive.				
Conditions to Avoid		Excess heat. Incomp sources of ignition.	atible p	roducts. k	Keep away from o	pen flames, hot su	irfaces and		
ncompatible Materials	6	Bases, Strong oxidizi	ing ager	nts					
lazardous Decompos	ition Products	Carbon monoxide (C	O), Car	bon dioxid	de (CO2), Hydroge	en iodide			
lazardous Polymeriza	ation	Hazardous polymeriz	zation de	pes not o	ccur.				
lazardous Reactions		None under normal p	orocessi	ng.					
		11. Toxicol	ogica	al info	rmation				
Product Information Component Informatio Component	LD50 Oral		L	D50 Dermal	LC50	Inhalation			
1-lodobutane		Not listed			Not listed		mg/m <sup>3</sup> (Rat) 4 h		
oxicologically Synerg Products Delayed and immediat	-	No information availa		short and	l long-term expo	sure_			
olajoa alla illinoalai	Irritation		No information available						
		No information availa	able		No information available				
rritation									
rritation Sensitization			able	nether ead	ch agency has list	ed any ingredient	as a carcinogen.		
ritation ensitization carcinogenicity Component	CAS No	No information availa The table below indic	able cates wh	P	ACGIH	OSHA	Mexico		
ritation ensitization arcinogenicity <u>Component</u> 1-lodobutane	<b>CAS No</b> 542-69-8	No information availa The table below indic	able cates wh NT Not lis	P					
ritation eensitization carcinogenicity <u>Component</u> 1-lodobutane lutagenic Effects		No information availa The table below indic IARC Not listed	able cates wh NT Not lis able	P	ACGIH	OSHA	Mexico		
rritation Sensitization Carcinogenicity <u>Component</u> 1-lodobutane Autagenic Effects Reproductive Effects	542-69-8	No information availa The table below indic IARC Not listed No information availa	able cates wh <u>Not lis</u> able able.	P	ACGIH	OSHA	Mexico		
Arritation Sensitization Carcinogenicity Component 1-lodobutane Autagenic Effects Reproductive Effects Developmental Effects	542-69-8	No information availa The table below indic IARC Not listed No information availa	able cates wh <u>NT lis</u> able able. able.	P	ACGIH	OSHA	Mexico		
rritation Sensitization Carcinogenicity Component	542-69-8	No information availa The table below indic IARC Not listed No information availa No information availa	able cates wh <u>NT lis</u> able able. able.	P	ACGIH	OSHA	Mexico		
rritation Sensitization Carcinogenicity Component 1-lodobutane Mutagenic Effects Reproductive Effects Developmental Effects Feratogenicity STOT - single exposur	542-69-8	No information availa The table below indic IARC Not listed No information availa No information availa No information availa Respiratory system	able cates wh <u>Not lis</u> able able. able. able.	P	ACGIH	OSHA	Mexico		
Arritation Sensitization Carcinogenicity Component 1-lodobutane Autagenic Effects Reproductive Effects Developmental Effects Feratogenicity STOT - single exposure STOT - repeated exposure	542-69-8 S re sure	No information availa The table below indic IARC Not listed No information availa No information availa No information availa Respiratory system None known No information availa	able cates wh <u>Not lis</u> able able. able. able.	P	ACGIH Not listed	OSHA Not listed	Mexico Not listed		

Other Adverse Effects	The toxicological properties have not been fully investigated.
	12. Ecological information
Ecotoxicity Do not empty into drains.	
Persistence and Degradability	Insoluble in water Persistence is unlikely based on information available.
Bioaccumulation/ Accumulation	No information available.
Mobility	Is not likely mobile in the environment due its low water solubility. Will likely be mobile in the environment due to its volatility.
	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	
Proper Shipping Name	TOXIC LIQUIDS, FLAMMABLE, ORGANIC, N.O.S.
Hazard Class Subsidiary Hazard Class	6.1 3
	3
Packing Group TDG	II
UN-No	UN2929
Proper Shipping Name	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	ů.
ΙΑΤΑ	
UN-No	UN2929
Proper Shipping Name	TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S.
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	II
IMDG/IMO	
UN-No	UN2929
Proper Shipping Name	Toxic liquid, flammable, organic, n.o.s.
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	

# United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1-lodobutane	542-69-8	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

1-lodobutane, stabiliz	zed
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Revision Date 24-Dec-2021

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
1-lodobutane	542-69-8	Х	-	208-824-4	Х	Х	Х	Х	Х	KE-21036
KECL - NIER number or KE numbe	r (http://ncis.nier.g	go.kr/en/m	ain.do)							

er (http:/ r.go

SARA 313	
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	This material, as supplied, contains one or more substances regulated as a hazardou substance under the Comprehensive Environmental Response Compensation and Li Act (CERCLA) (40 CFR 302)
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	
U.S. Department of Transportation 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	Serious risk, Grade 3

### 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)
1-lodobutane	542-69-8	Not applicable	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)
1-lodobutane	542-69-8	Not applicable	Not applicable	Not applicable	Not applicable

## 1-lodobutane, stabilized

Revision Date 24-Dec-2021

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	09-May-2012 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

Page 8/8