

SAFETY DATA SHEET

Revision Date 22-May-2024

Revision Number 6

1. Identification

Product Name

n-Butyllithium, 2.5M in hexanes

Cat No. :	H66688
Synonyms	No information available
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

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	Category 2	
Substances/mixtures which, in contact with water, emit	Category 1	
flammable gases		
Pyrophoric liquids	Category 1	
Skin Corrosion/Irritation	Category 1 B	
Serious Eye Damage/Eye Irritation	Category 1	
Reproductive Toxicity	Category 2	
Specific target organ toxicity (single exposure)	Category 3	
Target Organs - Respiratory system, Central nervous syst	em (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2	
Target Organs - Central nervous system (CNS), Periphera	al Nervous System (PNS).	
Aspiration Toxicity	Category 1	

Label Elements

Signal Word

Danger

Hazard Statements

Highly flammable liquid and vapor In contact with water releases flammable gases which may ignite spontaneously Catches fire spontaneously if exposed to air May be fatal if swallowed and enters airways Causes severe skin burns and eye damage May cause respiratory irritation May cause drowsiness or dizziness Suspected of damaging fertility

May cause damage to organs through prolonged or repeated exposure



Precautionary Statements Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

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

Do not allow contact with air

Keep away from any possible contact with water, because of violent reaction and possible flash fire

Handle under inert gas. Protect from moisture

Keep cool Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

Wash contaminated clothing before reuse

IF ON SKIN: Immerse in cool water/wrap with wet bandages

Brush off loose particles from skin. Immerse in cool water/wrap with wet bandages

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing **Ingestion**

Do NOT induce vomiting

Rinse mouth

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Store contents under inert gas

Store in a dry place. Store in a closed container

Disposal

Dispose of contents/container to an approved waste disposal plant <u>Hazards not otherwise classified (HNOC)</u> Toxic to aquatic life with long lasting effects Reacts violently with water WARNING. Reproductive Harm - https://www.p65warnings.ca.gov/.

3. Composition/Information on Ingredients

Component		CAS No	Weight %		
Hexane		110-54-3	57.85		
3-Methylpentane	96-14-0 22.25				
Butyl lithium		109-72-8 11.0			
2-Methylpentane	ine 107-83-5 4.45				
Methylcyclopentane		96-37-7	4.4491		
Benzene		71-43-2	0.0009		
	4.	First-aid measures			
General Advice	Show this sa required.	fety data sheet to the doctor in attendan	ce. Immediate medical attention is		
Eye Contact		liately with plenty of water, also under the	e eyelids, for at least 15 minutes.		
Skin Contact		nediately with plenty of water for at least d clothing and gloves, including the insid			
Inhalation	If not breathing, give artificial respiration. Remove from exposure, lie down. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately. Risk of serious damage to the lungs (by aspiration).				
Ingestion	Do NOT induce vomiting. Clean mouth with water. Never give anything by mouth to an unconscious person. Call a physician immediately. Call a physician or poison control center immediately. If vomiting occurs naturally, have victim lean forward.				
Most important symptoms and effects Notes to Physician	Use of gastri esophagus s delicate tissu dizziness, tire cause sympt	Causes burns by all exposure routes. Difficulty in breathing. Product is a corrosive material. Jse of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting freat symptomatically			
	5. Fi	re-fighting measures			
Suitable Extinguishing Media		arbon dioxide (CO ₂). Powder. Do not use ohol-resistant foam. Water mist may be			
Unsuitable Extinguishing Media	No information	on available			
Flash Point Method -	No information available No information available				
Autoignition Temperature	No information available				

Explosion Limits

Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Reacts violently with water. 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). Lithium oxide. Butane.

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.

NFPA Health 3	Flammability 4	Instability 2	Physical hazards W		
	6. Accidental rel	ease measures			
Personal Precautions	personnel to safe areas. Ke		uipment as required. Evacuate wind of spill/leak. Remove all st static discharges.		
Environmental Precautions	Do not flush into surface wa		. Should not be released into the		
Methods for Containment an Up	Methods for Containment and CleanSoak up with inert absorbent material. Keep in suitable, closed containers for disposal. Do not expose spill to water. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.				
	7. Handling a	and storage			
Handling	clothing. Use only under a ingest. If swallowed then se water. Keep away from ope non-sparking tools. To avoi	chemical fume hood. Do not h eek immediate medical assist en flames, hot surfaces and s	electricity discharge, all metal parts		
Storage.		ce. Keep away from heat, spa	ep containers tightly closed in a dry, arks and flame. Incompatible		
	8 Exposure controls	nersonal protect	ion		

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Hexane	TWA: 50 ppm Skin	(Vacated) TWA: 50 ppm (Vacated) TWA: 180 mg/m ³ TWA: 500 ppm TWA: 1800 mg/m ³	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m ³	TWA: 50 ppm
3-Methylpentane	TWA: 500 ppm STEL: 1000 ppm			TWA: 500 ppm STEL: 1000 ppm
2-Methylpentane	TWA: 500 ppm STEL: 1000 ppm			TWA: 500 ppm STEL: 1000 ppm
Benzene	TWA: 0.5 ppm STEL: 2.5 ppm Skin	(Vacated) TWA: 10 ppm Ceiling: 25 ppm (Vacated) STEL: 50 ppm (Vacated) Ceiling: 25 ppm TWA: 10 ppm TWA: 1 ppm STEL: 5 ppm	IDLH: 500 ppm TWA: 0.1 ppm STEL: 1 ppm	TWA: 0.5 ppm STEL: 2.5 ppm

<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 that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. 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	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.
Recommended Filter type:	Organic gases and vapours filter. low boiling organic solvent. Type AX. Brown. conforming to EN371. or. Type A. Brown. conforming to EN14387.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Physical State	Liquid
Appearance	Light yellow - Yellow
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available

Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

0.693 g/cm3 No information available No data available No information available No information available No information available C4 H9 Li 64.06

To: Stability and reactivity			
Reactive Hazard	Yes		
Stability	Air sensitive. Moisture sensitive.		
Conditions to Avoid	Exposure to moist air or water. Exposure to moisture. Keep away from open flames, hot surfaces and sources of ignition.		
Incompatible Materials	Oxidizing agent		
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Lithium oxide, Butane		
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing. Reacts violently with water.		

10. Stability and reactivity

11. Toxicological information

Acute Toxicity

Dermal LD50

Vapor LC50

Product Information Oral LD50

Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hexane	LD50 = 25 g/kg (Rat)	LD50 = 3000 mg/kg (Rabbit)	LC50 = 48000 ppm (Rat) 4 h
Benzene	LD50 = 810 mg/kg(Rat)	LD50 > 8200 mg/kg (Rabbit)	LC50 = 44.66 mg/L (Rat)4 h

Toxicologically Synergistic No information available

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

Irritation

No information available

Sensitization No information available

Carcinogenicity

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Hexane	110-54-3	Not listed				
3-Methylpentane	96-14-0	Not listed				
Butyl lithium	109-72-8	Not listed				
2-Methylpentane	107-83-5	Not listed				
Methylcyclopentane	96-37-7	Not listed				
Benzene	71-43-2	Group 1	Known	A1	Х	A1

IARC (International Agency for Research on Cancer)

IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Products

ACGIH: (American Conference of Governmental Industrial Hygienists) Mexico - Occupational Exposure Limits - Carcinogens		 NTP: (National Toxicity Program) Known - Known Carcinogen Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen A3 - Animal Carcinogen ACGIH: (American Conference of Governmental Industrial Hygienists) Mexico - Occupational Exposure Limits - Carcinogens A1 - Confirmed Human Carcinogen A2 - Suspected Human Carcinogen A3 - Confirmed Animal Carcinogen A4 - Not Classifiable as a Human Carcinogen A5 - Not Suspected as a Human Carcinogen 	
Mutagenic Effects	No information available		
Reproductive Effects	No information available.		
Developmental Effects	No information available.		
Teratogenicity	No information available.		
STOT - single exposure STOT - repeated exposure		ral nervous system (CNS) (CNS) Peripheral Nervous System (PNS)	
Aspiration hazard	No information available		
Symptoms / effects,both acute and delayed	nd Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Sympt of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Inhalatic high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting		
Endocrine Disruptor Information	No information available		
Other Adverse Effects	The toxicological properti	ies have not been fully investigated.	

12. Ecological information

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Hexane	Not listed	LC50: 2.1 - 2.98 mg/L, 96h flow-through (Pimephales promelas)	Not listed	EC50: 3.87 mg/L/48h
Benzene	EC50: = 29 mg/L, 72h (Pseudokirchneriella subcapitata)	LC50: = 22.49 mg/L, 96h static (Lepomis macrochirus) LC50: = 5.3 mg/L, 96h flow-through (Oncorhynchus mykiss) LC50: 70000 - 142000 µg/L, 96h static (Lepomis macrochirus) LC50: = 28.6 mg/L, 96h static (Poecilia reticulata) LC50: 22330 - 41160 µg/L, 96h static (Pimephales promelas) LC50: 10.7 - 14.7 mg/L, 96h flow-through (Pimephales		EC50: = 10 mg/L, 48h (Daphnia magna) EC50: 8.76 - 15.6 mg/L, 48h Static (Daphnia magna)

Persistence and Degrada	hility Immissible y	water May persist	
		promelas)	
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Persistence and Degradability Immiscible with water May persist

Bioaccumulation/ Accumulation

No information available.

Mobility

Is not likely mobile in the environment due its low water solubility.

Component	log Pow
Hexane	4.11
Methylcyclopentane	3.37
Benzene	2.13

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.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Benzene - 71-43-2	U019	-

	14. Transport information
DOT	
UN-No	UN3394
Proper Shipping Name	ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE
Technical Name	Hexane, Butyl lithium
Hazard Class	4.2
Subsidiary Hazard Class	4.3
Packing Group	
<u>TDG</u>	Forbidden
	FORBIDDEN FOR IATA TRANSPORT
UN-No	UN3394
Proper Shipping Name	ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE FORBIDDEN FOR IATA TRANSPORT
Hazard Class	4.2
Subsidiary Hazard Class	4.3
Packing Group	
IMDG/IMO	
UN-No	UN3394
Proper Shipping Name	ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE
Hazard Class	4.2
Subsidiary Hazard Class	4.3
Packing Group	
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Hexane	110-54-3	Х	ACTIVE	-
3-Methylpentane	96-14-0	Х	ACTIVE	-
Butyl lithium	109-72-8	Х	ACTIVE	-
2-Methylpentane	107-83-5	Х	ACTIVE	-
Methylcyclopentane	96-37-7	Х	ACTIVE	-
Benzene	71-43-2	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)

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
Hexane	110-54-3	Х	-	203-777-6	Х	Х	Х	Х	Х	KE-18626
3-Methylpentane	96-14-0	Х	-	202-481-4	Х	Х	Х	Х	Х	KE-24700
Butyl lithium	109-72-8	Х	-	203-698-7	Х	Х	Х	Х	Х	KE-04320
2-Methylpentane	107-83-5	Х	-	203-523-4	Х	Х	Х	Х	Х	KE-24699
Methylcyclopentane	96-37-7	Х	-	202-503-2	Х	Х	Х	Х	Х	KE-23724
Benzene	71-43-2	Х	-	200-753-7	Х	Х	Х	Х	Х	KE-02150

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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	CAS No	Weight %	SARA 313 - Threshold Values %	SARA 313 - Reporting threasholds
Hexane	110-54-3	57.85	1.0 %	-
Benzene	71-43-2	0.0009	0.1 %	-

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)

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Benzene	X	10 lb	Х	Х

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Hexane	Х		-
Benzene	Х		-

OSHA - Occupational Safety and Not applicable Health Administration

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Benzene	5 ppm STEL	-
	0.5 ppm Action Level	
	1 ppm TWA	

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

Component	Component Hazardous Substances		SARA Reportable Quantity	

	RQs	Hazardous Substances RQs	(RQ)
Hexane	5000 lb	-	5000 lb 2270 kg
Benzene	10 lb	-	10 lb 4.54 kg

California Proposition 65

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Hexane	110-54-3	Male Reproductive	-	Developmental
Benzene	71-43-2	Carcinogen Developmental Male Reproductive	6.4 µg/day 13 µg/day	Developmental Carcinogen

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Hexane	Х	Х	Х	Х	Х
3-Methylpentane	Х	-	Х	-	-
Butyl lithium	-	Х	Х	-	-
2-Methylpentane	Х	Х	Х	-	-
Methylcyclopentane	X	Х	Х	-	X
Benzene	Х	Х	Х	Х	Х

U.S. Department of Transportation

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

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 (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Hexane	110-54-3	-	Use restricted. See item 75. (see link for restriction details)	-
3-Methylpentane	96-14-0	-	Use restricted. See item 75. (see link for restriction details)	-
Butyl lithium	109-72-8	-	-	-
2-Methylpentane	107-83-5	-	Use restricted. See item 75. (see link for restriction details)	-
Methylcyclopentane	96-37-7	-	-	-
Benzene	71-43-2	-	Use restricted. See item 72. (see link for restriction details)	-

Use restricted. See item 5.
(see link for restriction
details)
Use restricted. See item
28.
(see link for restriction
details)
Use restricted. See item
29.
(see link for restriction
details)
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)
Hexane	110-54-3	Listed	Not applicable	Not applicable	Not applicable
3-Methylpentane	96-14-0	Listed	Not applicable	Not applicable	Not applicable
Butyl lithium	109-72-8	Listed	Not applicable	Not applicable	Not applicable
2-Methylpentane	107-83-5	Listed	Not applicable	Not applicable	Not applicable
Methylcyclopentane	96-37-7	Listed	Not applicable	Not applicable	Not applicable
Benzene	71-43-2	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	(2012/18/EC) -	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Hexane	110-54-3	Not applicable	Not applicable	Not applicable	Annex I - Y42
3-Methylpentane	96-14-0	Not applicable	Not applicable	Not applicable	Not applicable
Butyl lithium	109-72-8	Not applicable	Not applicable	Not applicable	Not applicable
2-Methylpentane	107-83-5	Not applicable	Not applicable	Not applicable	Not applicable
Methylcyclopentane	96-37-7	Not applicable	Not applicable	Not applicable	Not applicable
Benzene	71-43-2	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
Revision Date Print Date Revision Summary	22-May-2024 22-May-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