

# **SAFETY DATA SHEET**

Creation Date 18-Sep-2009 Revision Date 28-Mar-2024 Revision Number 5

# 1. Identification

Product Name Methyl benzoate

Cat No. : A12404

**CAS No** 93-58-3

**Synonyms** Benzoic acid, methyl ester; Oil of niobe.

Recommended Use Laboratory chemicals.

Uses advised against 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 4
Acute oral toxicity Category 4

#### Label Elements

#### Signal Word

Warning

#### **Hazard Statements**

Combustible liquid Harmful if swallowed



#### **Precautionary Statements**

#### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Wear protective gloves/protective clothing/eye protection/face protection

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Fire

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

Storage

Store in a well-ventilated place. Keep cool

# Disposal

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %	
Methylbenzoate	93-58-3	>95	

# 4. First-aid measures

**General Advice** If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

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

symptoms occur.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and

effects

. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($ 

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam. Water mist may be used

to cool closed containers.

Unsuitable Extinguishing Media No information available

**Flash Point** 77 °C / 170.6 °F

Method - No information available

Autoignition Temperature 518 °C / 964.4 °F

**Explosion Limits** 

**Upper** 20 vol % **Lower** 8.6 vol %

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

# **Specific Hazards Arising from the Chemical**

Combustible material. 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 (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.

NFPA

HealthFlammabilityInstabilityPhysical hazards120N/A

# 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** Should not be released into the environment.

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

**Up** Remove all sources of ignition.

# 7. Handling and storage

Handling Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid

ingestion and inhalation. Do not get in eyes, on skin, or on clothing. Keep away from open flames, hot surfaces and sources of ignition.

names, not surfaces and sources of ignition.

**Storage.** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks and flame. Incompatible Materials. Strong oxidizing agents. Strong bases.

Strong reducing agents.

#### 8. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. 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 StateLiquidAppearanceLight yellowOdoraromatic

Odor Threshold<br/>pHNo information available<br/>No information available

Melting Point/Range -12 °C / 10.4 °F

**Boiling Point/Range** 198 - 199 °C / 388.4 - 390.2 °F @ 760 mmHg

Flash Point 77 °C / 170.6 °F Evaporation Rate No information available

Flammability (solid,gas)

Not applicable
Flammability or explosive limits

**Upper** 20 vol % **Lower** 8.6 vol %

Vapor PressureNo information availableVapor DensityNo information available

Specific Gravity 1.080

SolubilityInsoluble in waterPartition coefficient; n-octanol/waterNo data availableAutoignition Temperature518 °C / 964.4 °FDecomposition TemperatureNo information available

Viscosity 1.94 mPa.s (23°C)
Molecular Formula C8 H8 O2

Molecular Formula C8 H8 O2
Molecular Weight 136.15

# 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Stable under normal conditions.

**Conditions to Avoid** Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials Strong oxidizing agents, Strong bases, Strong reducing agents

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

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
Methylbenzoate	2000 mg/kg (Rat)	>2000 mg/kg (Rat)	LC50 > 5.57 mg/L (Rat) 8 h		

Toxicologically Synergistic No information available

**Products** 

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

IrritationNo information availableSensitizationNo 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
Methylbenzoate	93-58-3	Not listed				

Mutagenic Effects No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

delayed

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	
Methylbenzoate	Not listed	LC50: = 23 mg/L, 96h semi-static (Danio rerio)	Not listed	Not listed	

Persistence and Degradability Persistence is unlikely

**Bioaccumulation/ Accumulation**No information available.

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

Component	log Pow
Methylbenzoate	2.1

# 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** COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY

According to 49 CFR §173.150(f)(1), this material should reclassified as NA1993,

Combustible Liquid, NOS if it is shipped in bulk.

UN-No NA1993

Revision Date 28-Mar-2024 Methyl benzoate

**Proper Shipping Name** Combustible liquid, n.o.s.

**Packing Group** 

**TDG** Not regulated Not regulated IATA IMDG/IMO Not regulated

# 15. Regulatory information

#### **United States of America Inventory**

Component	CAS No TSC		TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Methylbenzoate	93-58-3	Χ	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
Ī	Methylbenzoate	93-58-3	Χ	-	202-259-7	Χ	Χ	Х	Х	Х	KE-23483

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

#### U.S. Federal Regulations

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

Not applicable Clean Air Act

**OSHA** - 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
Methylbenzoate	-	Х	-	-	-

**U.S. Department of Transportation** 

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

Not applicable

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)
Methylbenzoate	93-58-3	-	-	-

# 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)
Methylbenzoate	93-58-3	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

			T			
	Component	CAS No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention
			(2012/18/EC) -	(2012/18/EC) -	Convention (PIC)	(Hazardous Waste)
			Qualifying Quantities	<b>Qualifying Quantities</b>		
			for Major Accident	for Safety Report		
			Notification	Requirements		
ı	Methylbenzoate	93-58-3	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

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 18-Sep-2009

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 28-Mar-2024

**Revision Summary** New emergency telephone response service provider.

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#### **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**