

SAFETY DATA SHEET

Creation Date 22-September-2009

Revision Date 24-December-2021

Revision Number 7

1. Identification

Product Name Thioanisole

Cat No.: AC138670000; AC138670025; AC138670250; AC138671000;

AC138675000

CAS-No 100-68-5

Synonyms MPS; Methyl phenyl sulfide

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Importer/Distributor Manufacturer

Fisher Scientific Acros Organics Fisher Scientific Company
112 Colonnade Road, One Reagent Lane Ottawa, ON K2E 7L6, Fair Lawn, NJ 07410
Canada Fisher Scientific Company
One Reagent Lane Fair Lawn, NJ 07410
Fair Lawn, NJ 07410
Tel: (201) 796-7100

Tel: 1-800-234-7437

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

WHMIS 2015 Classification Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Flammable liquids
Acute oral toxicity
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Category 2
Skin Sensitization
Category 2
Category 2
Category 1

Label Elements

Signal Word Warning

Hazard Statements Combustible liquid

Thioanisole

Harmful if swallowed Causes skin irritation May cause an allergic skin reaction Causes serious eye irritation



Precautionary Statements

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

Use explosion-proof electrical/ventilating/lighting/equipment

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Contaminated work clothing should not be allowed out of the workplace

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

Response

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

IF ON SKIN: Wash with plenty of soap and water

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

Rinse mouth

If skin irritation or rash occurs: Get medical advice/attention

If eye irritation persists: Get medical advice/attention

Take off contaminated clothing

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish

Storage

Store in a well-ventilated place. Keep cool

Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Toxic to aquatic life with long lasting effects

Stench

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Benzene, (methylthio)-	100-68-5	>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.

None reasonably foreseeable. May cause allergic skin reaction. Symptoms of Most important symptoms/effects

> overexposure may be headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands

and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may **Suitable Extinguishing Media**

be used to cool closed containers.

No information available **Unsuitable Extinguishing Media**

Flash Point 73 °C / 163.4 °F

Method -No information available

Autoignition Temperature

Explosion Limits

No information available

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

Flammable. Keep product and empty container away from heat and sources of ignition. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Combustible material.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO2). Sulfur oxides. Sulfides.

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	Flammability	Instability	Physical hazards
2	2	0	N/A

6. Accidental release measures

Ensure adequate ventilation. Use personal protective equipment as required. Remove all **Personal Precautions**

sources of ignition. Take precautionary measures against static discharges.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

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

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

ingestion and inhalation. Do not get in eyes, on skin, or on clothing. Keep away from open

flames, hot surfaces and sources of ignition.

Keep away from heat, sparks and flame. Flammables area. Keep containers tightly closed Storage.

in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

8. Exposure controls / personal protection

Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

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.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye Protection Goggles

Hand Protection Protective gloves

Glove mate	rial	Breakthrough time	Glove thickness	Glove comments
Nitrile rubb Neoprene		See manufacturers recommendations	-	Splash protection only
Natural rub	oer			
PVC				

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

No protective equipment is needed under normal use conditions.

Environmental exposure controls

Prevent product from entering drains. Do not allow material to contaminate ground water system.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

9. Physical and chemical properties

Physical StateLiquidAppearanceLight yellowOdorStench

Odor Threshold

No information available

No information available

pH No information ava Melting Point/Range -15 °C / 5 °F

Boiling Point/Range 188 °C / 370.4 °F @ 760 mmHg

Flash Point 73 °C / 163.4 °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 No information available

Vapor Density 4.3 Specific Gravity 1.050

Solubility Insoluble in water

Thioanisole

Partition coefficient; n-octanol/water

Autoignition Temperature Decomposition Temperature

Viscosity

Molecular Formula Molecular Weight

No data available No information available No information available No information available

C7 H8 S 124.2

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stable under normal conditions. Stability

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

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Carbon monoxide (CO₂), Carbon dioxide (CO₂), Sulfur oxides, Sulfides

Hazardous polymerization does not occur. **Hazardous Polymerization**

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzene, (methylthio)-	LD50 = 891 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic

No information available

Products

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

Irritation Irritating to eyes and skin

Sensitization May cause sensitization by skin contact

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

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Benzene, (methylthio)-	100-68-5	Not listed				

Mutagenic Effects No information available

No information available. **Reproductive Effects** No information available. **Developmental Effects Teratogenicity** No information available.

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

No information available **Aspiration hazard**

delayed

Symptoms / effects,both acute and Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties 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.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Benzene, (methylthio)-	Not listed	Not listed	Not listed	EC50: 2.2-4.0 mg/L/24h

Persistence and Degradability

Insoluble in water May persist based on information available.

Bioaccumulation/ Accumulation

No information available.

Mobility

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

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 UN3082

Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s.

Technical Name Benzene, (methylthio)-

Hazard Class 9
Packing Group III

TDG

UN-No UN3082

Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s.

Hazard Class 9
Packing Group III

IATA

UN-No UN3082

Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s.

Hazard Class 9
Packing Group III

IMDG/IMO

UN-No UN3082

Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s.

Hazard Class 9
Packing Group

15. Regulatory information

All of the components in the product are on the following Inventory lists: China X = listed Australia U.S.A. (TSCA) Canada (DSL/NDSL) Europe (EINECS/ELINCS/NLP) Australia (AICS) Korea (KECL) China (IECSC) Japan (ENCS) Philippines (PICCS)

International Inventories

Component	CAS-No	DSL	NDSL	TSCA	TSCA Inventory notification - Active-Inactive	EINECS	ELINCS	NLP
Benzene, (methylthio)-	100-68-5	-	Χ	Х	ACTIVE	202-878-2	-	-

Component	CAS-No	IECSC	KECL	ENCS	ISHL	TCSI	AICS	NZIoC	PICCS
Benzene, (methylthio)-	100-68-5	Х	2000-3-14	Х	Х	Х	Х	Х	Х

Thioanisole

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Legend:

X - Listed '-' - Not Listed

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

Other International Regulations

Benzene, (methylthio)-

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)
Benzene, (methylthio)-	100-68-5	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS-No	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

16	Other	information

100-68-5

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Notification

Not applicable

Creation Date22-September-2009Revision Date24-December-2021Print Date24-December-2021

Revision SummaryThis document has been updated to comply with the requirements of WHMIS 2015 to align

with the Globally Harmonised System (GHS) for the Classification and Labelling of

Requirements

Not applicable

Not applicable

Not applicable

Chemicals.

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