

# SAFETY DATA SHEET

Revision Date 18-Dec-2025 Revision Number 5

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

1. Identification

Product Name 4-Fluoroanisole

Cat No.: AC119310000; AC119310250; AC119311000

CAS No 459-60-9

Synonyms No information available

**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
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
Fair Lawn, NJ 07410

Tel: (201) 796-7100

**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 according to [US] OSHA (29 CFR 1910.1200, 2024)

Flammable liquids Category 3

Label Elements

**Signal Word** 

Warning

**Hazard Statements** 

Flammable liquid and vapor



### **Precautionary Statements**

#### Prevention

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

Keep container tightly closed

Ground and bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting equipment

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

Take action to prevent static discharges

Use non-sparking tools

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower

**Fire** 

In case of fire: Use CO2, dry chemical, or foam to extinguish

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

### Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available

## 3. Composition/information on Ingredients

Component	CAS No	Weight %
Benzene, 1-fluoro-4-methoxy-	459-60-9	99

### 4. First-aid measures

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Get medical attention. Take off contaminated clothing and shoes

immediately.

**Inhalation** Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen.

If not breathing, give artificial respiration. Immediate medical attention is required.

**Ingestion** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink

plenty of water. Call a physician immediately. If possible drink milk afterwards.

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

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Suitable Extinguishing Media Water spray, Carbon dioxide (CO<sub>2</sub>), Dry chemical, Alcohol resistant foam, Use

extinguishing measures that are appropriate to local circumstances and the surrounding

environment. Water mist may be used to cool closed containers.

No information available **Unsuitable Extinguishing Media** 

**Flash Point** 43 °C / 109.4 °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 No information available Sensitivity to Static Discharge

#### **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**

Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Gaseous hydrogen fluoride (HF).

### **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
0	2	0	N/A

## 6. Accidental release measures

**Personal Precautions Environmental Precautions**  Remove all sources of ignition. Take precautionary measures against static discharges. See Section 12 for additional Ecological Information.

Up

Methods for Containment and Clean Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal. Sweep up and shovel into suitable containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

## 7. Handling and Storage

Handling

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take

precautionary measures against static discharges.

Storage.

Flammables area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. sparks and flame. Incompatible Materials. Strong oxidizing agents. Oxidizing agent.

## 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.

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**Engineering Measures** Ensure adequate ventilation, especially in confined areas. Ventilation systems. Use

explosion-proof electrical/ventilating/lighting equipment.

**Personal Protective Equipment** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection** 

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

Liquid

FN166.

Wear appropriate protective gloves and clothing to prevent skin exposure. Skin and body protection

**Respiratory Protection** No protective equipment is needed under normal use conditions.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

## Physical and chemical properties

Appearance

**Physical State** Liquid Light yellow Color Odor Odorless

No information available **Odor Threshold** 

Property Values Remarks Method

Melting Point/Range -45 °C / -49 °F **Softening Point** No data available

**Boiling Point/Range** 157 °C / 314.6 °F @ 760 mmHa

Flash Point 43 °C / 109.4 °F Method - No information available

Flammability (liquid) Flammable On basis of test data

Flammability (solid,gas) Not applicable

**Explosion Limits** No data available

No data available **Autoignition Temperature Decomposition Temperature** No data available рΗ No information available Viscosity No data available **Water Solubility** No information available Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

No data available **Vapor Pressure** 

**Density / Specific Gravity** 1.110

**Bulk Density** Not applicable Liquid **Vapor Density** 4.35 (Air = 1.0)

**Particle characteristics** Not applicable (liquid)

Other Information

C7 H7 F O **Molecular Formula Molecular Weight** 126.13

**Explosive Properties** explosive air/vapour mixtures possible

## 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, Oxidizing agent

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors, Carbon

monoxide (CO), Carbon dioxide (CO2), Gaseous hydrogen fluoride (HF)

**Hazardous Polymerization** No information available.

Hazardous Reactions None under normal processing.

## 11. Toxicological information

## Information on expected route of exposure

InhalationNot an expected route of exposure.IngestionMay be harmful if swallowed.EyesAvoid contact with eyes.SkinAvoid contact with skin.

#### Toxicology data for the components

**Toxicologically Synergistic** 

**Products** 

No information available

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity;

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Benzene,	459-60-9	Not listed				
1-fluoro-4-methoxy-						

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target OrgansNo information available.

(j) aspiration hazard; No data available

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

Other Adverse Effects The toxicological properties have not been fully investigated.

No information available.

**Endocrine Disrupting Properties** This product does not contain any known or suspected endocrine disruptors.

## 12. Ecological information

**Ecotoxicity** 

**Mobility** 

Do not empty into drains.

Persistence and Degradability

No information available

Bioaccumulation/ Accumulation

No information available.

## 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 UN1993
Hazard Class 3
Packing Group III

TDG

UN-No UN1993
Hazard Class 3
Packing Group III

<u>IATA</u>

**UN-No** UN1993

Proper Shipping Name FLAMMABLE LIQUID, N.O.S.\*

Hazard Class 3
Packing Group III

IMDG/IMO

**UN-No** UN1993

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

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
Benzene, 1-fluoro-4-methoxy-	459-60-9	X	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
Benzene, 1-fluoro-4-methoxy-	459-60-9	-	Х	207-295-7	-	-		-	Х	-

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 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

Clean Air Act Not applicable

**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

Not applicable

#### **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)
1	Benzene, 1-fluoro-4-methoxy-	459-60-9	-	-	-

### 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, 1-fluoro-4-methoxy-	459-60-9	Not applicable	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) - (2012/18/EC) -		Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		Qualifying Quantities	Qualifying Quantities		
		for Major Accident   for Safety Report			
		Notification	Requirements		
Benzene, 1-fluoro-4-methoxy-	459-60-9	Not applicable	Not applicable	Not applicable	Not applicable

## 16. Other Information

Prepared By Product stewardship (Regulatory Affairs)

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**Revision Date** 18-Dec-2025 **Print Date** 18-Dec-2025

**Revision Summary** Updated to the U.S. Department of Labor's Occupational Safety and Health Administration

(OSHA) which published its Final Rule in the Federal Register revising the Hazard Communication Standard (HCS/HazCom), 29 CFR 1910.1200 (2024) (HCS §1910.1200,

2024), May 20, 2024, effective July 19, 2024.

#### **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