

# SAFETY DATA SHEET

Creation Date 26-Oct-2010

Revision Date 19-Dec-2025

Revision Number 7

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** Butyl methacrylate, stabilized

**Cat No. :** AC216620000; AC216620010; AC216620050; AC216620051; AC216620500

**CAS No** 97-88-1

**Synonyms** Butyl 2-methacrylate; Butyl 2-methyl-2-propenoate; Methacrylic acid, butyl ester

**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  
Tel: (201) 796-7100

Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

#### **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 |
| Skin Corrosion/Irritation                        | Category 2 |
| Serious Eye Damage/Eye Irritation                | Category 2 |
| Skin Sensitization                               | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Target Organs - Respiratory system.              |            |

### Label Elements

#### **Signal Word**

Warning

**Hazard Statements**

Flammable liquid and vapor  
Causes skin irritation  
Causes serious eye irritation  
May cause an allergic skin reaction  
May cause respiratory irritation

**Precautionary Statements****Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing should not be allowed out of the workplace  
Use only outdoors or in a well-ventilated area  
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  
Keep cool  
Take action to prevent static discharges  
Use non-sparking tools

**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Call a POISON CENTER or doctor if you feel unwell

**Skin**

If skin irritation or rash occurs: Get medical advice/attention  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower  
Take off contaminated clothing and wash 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 CO<sub>2</sub>, dry chemical, or foam to extinguish

**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

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

No information available

### 3. Composition/information on Ingredients

| Component          | CAS No   | Weight %    |
|--------------------|----------|-------------|
| Butyl methacrylate | 97-88-1  | 100         |
| 4-Methoxyphenol    | 150-76-5 | 0.001-0.011 |

#### 4. First-aid measures

|  |   |
|--|---|
| <b>Eye Contact</b>                         | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.  |
| <b>Skin Contact</b>                        | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.  |
| <b>Inhalation</b>                          | Remove from exposure, lie down. Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.  |
| <b>Ingestion</b>                           | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. If possible drink milk afterwards.  |
| <b>Most important symptoms and effects</b> | Difficulty in breathing. May cause allergic skin reaction. . 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 |
| <b>Notes to Physician</b>                  | Treat symptomatically   |

#### 5. Fire-fighting measures

|   |  |
|---|--|
| <b>Suitable Extinguishing Media</b>     | Water spray. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Water mist may be used to cool closed containers. Chemical foam. Water mist may be used to cool closed containers. |
| <b>Unsuitable Extinguishing Media</b>   | No information available   |
| <b>Flash Point</b>                      | 41 °C / 105.8 °F   |
| <b>Method -</b>                         | No information available   |
| <b>Autoignition Temperature</b>         | 290 °C / 554 °F  |
| <b>Explosion Limits</b>                 |  |
| <b>Upper</b>                            | 8.0%   |
| <b>Lower</b>                            | 2.0%   |
| <b>Sensitivity to Mechanical Impact</b> | No information available   |
| <b>Sensitivity to Static Discharge</b>  | No information available   |

#### Specific Hazards Arising from the Chemical

Flammable. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

#### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### 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**  
2

**Flammability**  
2

**Instability**  
0

**Physical hazards**  
N/A

#### 6. Accidental release measures

|                                  |   |
|----------------------------------|---|
| <b>Personal Precautions</b>      | Remove all sources of ignition. Take precautionary measures against static discharges.                          |
| <b>Environmental Precautions</b> | See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system. |

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

## 7. Handling and Storage

**Handling** Avoid contact with skin and eyes. Do not breathe mist/vapors/spray. Handle product only in closed system or provide appropriate exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

**Storage.** Keep in a dry place. Keep container tightly closed. Keep away from heat, sparks and flame. Refrigerator/flammables. Incompatible Materials. Acids. Bases. Strong oxidizing agents. Peroxides. Reducing Agent.

## 8. Exposure controls / personal protection

### Exposure Guidelines

| Component       | ACGIH TLV                | OSHA PEL                           | NIOSH                           | Mexico OEL (TWA)         |
|-----------------|--------------------------|------------------------------------|---------------------------------|--------------------------|
| 4-Methoxyphenol | TWA: 5 mg/m <sup>3</sup> | (Vacated) TWA: 5 mg/m <sup>3</sup> | REL = 5 mg/m <sup>3</sup> (TWA) | TWA: 5 mg/m <sup>3</sup> |

### Legend

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

|                                 |   |
|---------------------------------|---|
| <b>Eye/face Protection</b>      | 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.   |
| <b>Skin and body protection</b> | Wear appropriate protective gloves and clothing to prevent skin exposure.   |
| <b>Respiratory Protection</b>   | 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. |
| <b>Recommended Filter type:</b> | Organic gases and vapours filter. Type A. Brown. conforming to EN14387.   |
| <b>Hygiene Measures</b>         | Handle in accordance with good industrial hygiene and safety practice.  |

## 9. Physical and chemical properties

### Appearance

#### Physical State

#### Color

#### Odor

#### Odor Threshold

#### Property

#### Melting Point/Range

#### Softening Point

Liquid

Colorless

aromatic

No information available

#### Values

-75 °C / -103 °F

No data available

#### Remarks

#### • Method

|  |   |  |
|--|---|--|
| <b>Boiling Point/Range</b>                                 | 160 - 163 °C / 320 - 325.4 °F           |  |
| <b>Flash Point</b>   | 41 °C / 105.8 °F                        |  |
| <b>Flammability (liquid)</b>                               | Flammable                               | <b>Method</b> - No information available |
| <b>Flammability (solid,gas)</b>                            | Not applicable                          | On basis of test data                    |
| <b>Explosion Limits</b>                                    | <b>Lower</b> 2<br><b>Upper</b> 8        | Liquid                                   |
| <b>Autoignition Temperature</b>                            | 290 °C / 554 °F                         |  |
| <b>Decomposition Temperature</b>                           | No data available                       |  |
| <b>pH</b>  | No information available                |  |
| <b>Viscosity</b>   | 1.1 mPa s at 20 °C                      |  |
| <b>Water Solubility</b>                                    | 3 g/l                                   |  |
| <b>Solubility in other solvents</b>                        | No information available                |  |
| <b>Partition Coefficient (n-octanol/water)</b>             |   |  |
| <b>Component</b>   | <b>log Pow</b>                          |  |
| Butyl methacrylate   | 2.99                                    |  |
| 4-Methoxyphenol  | 1.3                                     |  |
| <b>Vapor Pressure</b>                                      | 3 mbar @ 20 °C                          |  |
| <b>Density / Specific Gravity</b>                          | 0.890                                   |  |
| <b>Bulk Density</b>  | Not applicable                          | Liquid                                   |
| <b>Vapor Density</b>                                       | 4.8                                     | (Air = 1.0)                              |
| <b>Particle characteristics</b>                            | Not applicable (liquid)                 |  |
| <b>Other Information</b>                                   |   |  |
| <b>Molecular Formula</b>                                   | C8 H14 O2                               |  |
| <b>Molecular Weight</b>                                    | 142.2                                   |  |
| <b>Explosive Properties</b>                                | explosive air/vapour mixtures possible  |  |
| <b>Self-accelerating polymerisation temperature (SAPT)</b> | >55°C (packages up to 50kg)             |  |
|  | Heat of Polymerization (KJ/Mole) = 56.6 |  |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactive Hazard</b>                  | None known, based on information available   |
| <b>Stability</b>                        | Stable under normal conditions.  |
| <b>Conditions to Avoid</b>              | Keep away from open flames, hot surfaces and sources of ignition. Excess heat. Exposure to light. Incompatible products. |
| <b>Incompatible Materials</b>           | Acids, Bases, Strong oxidizing agents, Peroxides, Reducing Agent   |
| <b>Hazardous Decomposition Products</b> | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )  |
| <b>Hazardous Polymerization</b>         | Hazardous polymerization may occur.  |
| <b>Hazardous Reactions</b>              | None under normal processing.  |

## 11. Toxicological information

### Information on expected route of exposure

|                   |  |
|-------------------|--|
| <b>Inhalation</b> | May produce an allergic reaction.  |
| <b>Ingestion</b>  | May cause allergic reaction. May be harmful if swallowed.  |
| <b>Eyes</b>       | Avoid contact with eyes. Irritating to eyes. Lachrymator (substance which increases the flow of tears). Sensitization.                   |
| <b>Skin</b>       | Avoid contact with skin. May cause irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. |

### Toxicology data for the components

| Component          | LD50 Oral              | LD50 Dermal                   | LC50 Inhalation             |
|--------------------|------------------------|-------------------------------|-----------------------------|
| Butyl methacrylate | LD50 = 16 g/kg ( Rat ) | LD50 = 11300 mg/kg ( Rabbit ) | LC50 = 4910 ppm ( Rat ) 4 h |
| 4-Methoxyphenol    | 1600 mg/kg (Rat)       | LD50 > 2000 mg/kg ( Rabbit )  | -                           |

**Toxicologically Synergistic Products** No information available

**(b) skin corrosion/irritation;** Category 2

**(c) serious eye damage/irritation;** Category 2

**(d) respiratory or skin sensitization;**

**Respiratory** No data available  
**Skin** Category 1

May cause sensitization by skin contact

**(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     |
|--------------------|----------|------------|------------|------------|------------|------------|
| Butyl methacrylate | 97-88-1  | Group 2B   | Not listed | Not listed | X          | Not listed |
| 4-Methoxyphenol    | 150-76-5 | Not listed | Not listed | Not listed | Not listed | Not listed |

**(g) reproductive toxicity;** No data available

**(h) STOT-single exposure;** Category 3

**Results / Target organs** Respiratory system.

**(i) STOT-repeated exposure;** No data available

**Target Organs** No information available.

**(j) aspiration hazard;** No data available

**Symptoms / effects, both acute and delayed** 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.

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

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

## 12. Ecological information

### Ecotoxicity

Do not empty into drains.

| Component          | Freshwater Algae     | Freshwater Fish      | Microtox             | Water Flea           |
|--------------------|----------------------|----------------------|----------------------|----------------------|
| Butyl methacrylate | EC50: = 57 mg/L, 96h | LC50: = 11 mg/L, 96h | EC50 = 37 mg/L 5 min | EC50: = 32 mg/L, 48h |

|                 |                                   |  |  |                 |
|-----------------|-----------------------------------|--|--|-----------------|
|                 | (Pseudokirchneriella subcapitata) | flow-through (Pimephales promelas)   | EC50 = 49 mg/L 15 min<br>EC50 = 55 mg/L 30 min<br>EC50 > 253.6 mg/L 18 h     | (Daphnia magna) |
| 4-Methoxyphenol | Not listed                        | LC50: = 28.5 mg/L, 96h flow-through (Oncorhynchus mykiss)<br>LC50: = 84.3 mg/L, 96h flow-through (Pimephales promelas) | EC50 = 3.66 mg/L 5 min<br>EC50 = 4.30 mg/L 15 min<br>EC50 = 4.61 mg/L 30 min | Not listed      |

**Persistence and Degradability** Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

**Mobility** . Will likely be mobile in the environment due to its water solubility.

| Component          | log Pow |
|--------------------|---------|
| Butyl methacrylate | 2.99    |
| 4-Methoxyphenol    | 1.3     |

### 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 UN2227  
Hazard Class 3  
Packing Group III

#### TDG

UN-No UN2227  
Hazard Class 3  
Packing Group III

#### IATA

UN-No UN2227  
Proper Shipping Name n-BUTYL METHACRYLATE, STABILIZED  
Hazard Class 3  
Packing Group III

#### IMDG/IMO

UN-No UN2227  
Proper Shipping Name BUTYL METHACRYLATE, STABILIZED  
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 |
|--------------------|----------|------|---|-----------------------------|
| Butyl methacrylate | 97-88-1  | X    | ACTIVE  | -                           |
| 4-Methoxyphenol    | 150-76-5 | 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/NDL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component          | CAS No   | DSL | NDL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL     |
|--------------------|----------|-----|-----|-----------|-------|------|------|------|-------|----------|
| Butyl methacrylate | 97-88-1  | X   | -   | 202-615-1 | X     | X    | X    | X    | X     | KE-24922 |
| 4-Methoxyphenol    | 150-76-5 | X   | -   | 205-769-8 | X     | X    | X    | X    | X     | KE-23353 |

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**

| Component          | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|--------------------|---------------|------------|--------------|----------|--------------|
| Butyl methacrylate | X             | X          | X            | -        | -            |
| 4-Methoxyphenol    | X             | X          | X            | -        | X            |

**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

| 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) |
|--------------------|----------|---|---|---|
| Butyl methacrylate | 97-88-1  | -   | Use restricted. See entry 75. (see link for restriction details)              | -   |
| 4-Methoxyphenol    | 150-76-5 | -   | Use restricted. See entry 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) |
|--------------------|----------|----------|------------------------------|---------------------------|--|
| Butyl methacrylate | 97-88-1  | Listed   | Not applicable               | Not applicable            | Not applicable                             |
| 4-Methoxyphenol    | 150-76-5 | Listed   | Not applicable               | Not applicable            | Not applicable                             |

## Contains component(s) that meet a 'definition' of per &amp; poly fluoroalkyl substance (PFAS)?

Not applicable

## Other International Regulations

| 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) |
|--------------------|----------|---|--|----------------------------|------------------------------------|
| Butyl methacrylate | 97-88-1  | Not applicable  | Not applicable   | Not applicable             | Not applicable                     |
| 4-Methoxyphenol    | 150-76-5 | Not applicable  | Not applicable   | Not applicable             | Not applicable                     |

## 16. Other Information

## Prepared By

Product stewardship (Regulatory Affairs)  
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## Creation Date

26-Oct-2010

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19-Dec-2025

## Print Date

19-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**