

Material Safety Data Sheet

SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Product name: Ethyl 3-methylbut-2-enoate

Product Number: AS41866

CAS No.: 638-10-8

REACH Registration No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

IDENTIFIED USES: LABORATORY CHEMICALS, MANUFACTURE OF CHEMICAL PRODUCTS

1.3. Details of the supplier of the safety data sheet

Manufacturer: Activate Scientific GmbH, Am Mitterweg 12, D-83209 Prien, Germany

Telephone: +49-(0)8051-9651660

1.4. Emergency telephone number

Emergency Phone EU: +49-(0)551-383180

Emergency Phone UK: +44-(0)1747 833100

Transport Emergency US & CD: 800-451-8346 (or 1-800-CHEMCALL)

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Flammable liquids Category 2 - H225

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008



Signalword *Danger*

Hazard statement(s)

H225 - Highly Flammable liquid and vapour

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P302+P352 IF ON SKIN: Wash with plenty of water

P305+P351+P338 IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1 % or higher.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

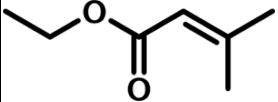
Product Number: AS41866

Substance Name: Ethyl 3-methylbut-2-enoate

CAS: 638-10-8

Formula: C₇H₁₂O₂

MW: 128.17

Component	Classification	Structure	Concentration
Ethyl 3-methylbut-2-enoate	Flammable liquids Category 2 - H225		<= 100%

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled If breathed in- move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact Wash off with soap and plenty of water. Consult a physician.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5 - FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Dry powder, Dry sand, *Unsuitable extinguishing media:* Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, Diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition -No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Storage Temperature:

2-7°C Refrigerate

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store in cool place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulate

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- a) Appearance/Form: liquid Colour: clear
- b) Odour: No data available
- c) Melting point/freezing point range: No data available
- d) Initial boiling point and boiling range: No data available
- e) Flash point: No data available
- f) Flammability (solid, gas): No data available
- g) Upper/lower flammability/ explosive limits: No data available
- h) Auto ignition temperature: No data available
- i) Explosive properties: No data available
- j) Oxidizing properties: No data available

9.2 Other safety information

No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity No data available

10.2 Chemical stability No data available

10.3 Possibility of hazardous reactions No data available

10.4 Conditions to avoid No data available

10.5 Incompatible materials Strong oxidizing agents

10.6 Hazardous decomposition products Other decomposition products - No data available

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as Probable- possible or confirmed human carcinogen by IARC.

Reproductive toxicity No data available

Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available

Potential health effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes serious eye irritation.

Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information RTECS: Not available

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity No data available

12.2 Persistence and degradability No data available

12.3 Bio accumulative potential No data available

12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment No data available

12.6 Other adverse effects No data available

SECTION 14: Transport information

14.1. UN number or ID number

ADR/RID: 3272 IMDG: 3 IATA: III

14.2. UN proper shipping name

ADR/RID: 3272 IMDG: 3 IATA: III

14.3. Transport hazard class(es)

ADR/RID: 3272 IMDG: 3 IATA: III

14.4. Packing group

ADR/RID: 3272 IMDG: 3 IATA: III

14.5. Environmental hazards

ADR/RID: No IMDG Marine Pollutant : No IATA: No

14.6. Special precautions for user

No Data Available

SECTION 15 - REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment No data available**SECTION 16 - OTHER INFORMATION****DISCLAIMER FOR R&D USE ONLY- NOT FOR DRUG, HOUSEHOLD OR OTHER USES**

Hazard statement(s)

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Precautionary statement(s)

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WARRANTY The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

Activate Scientific GmbH, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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