

# SAFETY DATA SHEET

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



**Product Name** 4-Mercapto-4-methyl-2-pentanone, 1% in Triacetin-USOC, Natural

## 1. Identification

### Product identifier

**Product Name** 4-Mercapto-4-methyl-2-pentanone, 1% in Triacetin-USOC, Natural

### Other means of identification

**Chemical name** 2-Pentanone, 4-mercapto-4-methyl-

**Product Code(s)** NA3997-1-TRI-USOC

### Recommended use of the chemical and restrictions on use

**Recommended use** Flavors

**Restrictions on use** No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

Axxence Corporation  
1050 Cypress Creek Rd.  
Oakdale, La 71463  
www.axxence.com  
Tel. 318-215-1456  
Fax 318-335-1579

### Emergency telephone number

**Emergency Telephone** EMERGENCY 24 HOUR CONTACT  
ChemTrec: 1-800-424-9300  
Contract # 219030

## 2. Hazard(s) identification

### Classification

Classification according to Regulation 29 CFR 1910.1200

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Hazards not otherwise classified (HNOC)

Not applicable.

### Label elements

#### Hazard statements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Other information

### 3. Composition/information on ingredients

**Product Name** 4-Mercapto-4-methyl-2-pentanone, 1% in Triacetin-USOC, Natural

#### Substance

Not applicable.

#### Mixture

**Formula** C<sub>6</sub> H<sub>12</sub> OS

**Molecular weight** 132 g/mol

| Chemical name      | CAS No.  | EC No (EU Index No) | Weight-% | Trade secret |
|--------------------|----------|---------------------|----------|--------------|
| Triacetin, Natural | 102-76-1 | 203-051-9           | 99       | -            |

### 4. First-aid measures

#### Description of first aid measures

**Inhalation** Remove to fresh air.  
**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.  
Consult a physician.  
**Skin contact** Wash skin with soap and water.  
**Ingestion** Rinse mouth.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically.

### 5. Fire-fighting measures

**Flash point** 130 °C / 266 °F

#### **Flammability Limit in Air**

**Upper flammability or explosive limits** No data available

**Lower flammability or explosive limits** No data available

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the** No information available.

chemical

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**Special attention to fire and explosion** None

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. Handling and storage

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Cool, Dark area. Purge with Nitrogen after each opening.

## 8. Exposure controls/personal protection

### Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Appropriate eye/face protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**Hand protection** Appropriate hand protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**Skin and body protection** Appropriate skin and body protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**Respiratory protection** Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

**Physical state** Liquid

|                |                          |
|----------------|--------------------------|
| Appearance     | Clear                    |
| Color          | Colorless                |
| Odor           | berry                    |
| Odor threshold | No information available |

| <u>Property</u>                        | <u>Values</u>     | <u>Remarks • Method</u> |
|--|-------------------|-------------------------|
| pH                                     | No data available | None known              |
| Melting point / freezing point         | No data available | None known              |
| Boiling point                          | 255 °C / 491 °F   | None known              |
| Flash point                            | 130 °C / 266 °F   | CC (closed cup)         |
| Evaporation rate                       | No data available | None known              |
| Flammability                           | No data available | None known              |
| Flammability Limit in Air              |                   | None known              |
| Upper flammability or explosive limits | No data available |                         |
| Lower flammability or explosive limits | No data available |                         |
| Vapor pressure                         | No data available | None known              |
| Relative vapor density                 | >1.0              | None known              |
| Relative density                       | 1.1334 - 1.1734   | None known              |
| Water solubility                       | Soluble in water  | None known              |
| Solubility(ies)                        | Oil               | None known              |
| Partition coefficient                  | No data available | None known              |
| Autoignition temperature               | No data available | None known              |
| Decomposition temperature              |                   | None known              |
| Kinematic viscosity                    | No data available | None known              |
| Dynamic viscosity                      | No data available | None known              |
| Refractive Index                       | 1.428 - 1.432     |                         |

|                          |                          |
|--------------------------|--------------------------|
| <u>Other information</u> |                          |
| Explosive properties     | No information available |
| Oxidizing properties     | No information available |
| Softening point          | No information available |
| Molecular weight         | 132 g/mol                |
| VOC content              | No information available |
| Liquid Density           | No information available |
| Bulk density             | No information available |

## 10. Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | No information available.                 |
| Chemical stability                 | Stable under normal conditions.           |
| Possibility of hazardous reactions | None under normal processing.             |
| Conditions to avoid                | None known based on information supplied. |
| Incompatible materials             | None known based on information supplied. |
| Hazardous decomposition products   | None known based on information supplied. |

## 11. Toxicological information

### Information on likely routes of exposure

|              |   |
|--------------|---|
| Inhalation   | Specific test data for the substance or mixture is not available. |
| Eye contact  | Specific test data for the substance or mixture is not available. |
| Skin contact | May be harmful in contact with skin.                              |
| Ingestion    | Specific test data for the substance or mixture is not available. |

### Symptoms related to the physical, chemical and toxicological characteristics

|          |                           |
|----------|---------------------------|
| Symptoms | No information available. |
|----------|---------------------------|

### Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

|                               |                |
|-------------------------------|----------------|
| ATEmix (oral)                 | 3,030.30 mg/kg |
| ATEmix (dermal)               | 2,020.20 mg/kg |
| ATEmix (inhalation-gas)       | 99,999.00 ppm  |
| ATEmix (inhalation-dust/mist) | 1,738.40 mg/l  |
| ATEmix (inhalation-vapor)     | 99,999.00 mg/l |

#### Component Information

| Chemical name                  | Oral LD50        | Dermal LD50             | Inhalation LC50         |
|--------------------------------|------------------|-------------------------|-------------------------|
| Triacetin, Natural<br>102-76-1 | = 3 g/kg ( Rat ) | > 2000 mg/kg ( Rabbit ) | > 1721 mg/L ( Rat ) 4 h |

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

|                                   |                           |
|-----------------------------------|---------------------------|
| Skin corrosion/irritation         | No information available. |
| Serious eye damage/eye irritation | No information available. |
| Respiratory or skin sensitization | No information available. |
| Germ cell mutagenicity            | No information available. |
| Carcinogenicity                   | No information available. |
| Reproductive toxicity             | No information available. |
| STOT - single exposure            | No information available. |
| STOT - repeated exposure          | No information available. |
| Aspiration hazard                 | No information available. |
| Other adverse effects             | No information available. |
| Interactive effects               | No information available. |

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

| Chemical name                  | Algae/aquatic plants | Fish                                     | Toxicity to microorganisms | Crustacea                              |
|--------------------------------|----------------------|--|----------------------------|--|
| Triacetin, Natural<br>102-76-1 | -                    | LC50: >100mg/L (96h,<br>Oryzias latipes) | -                          | EC50: =380mg/L (48h,<br>Daphnia magna) |

**Persistence and degradability** No information available.

**Bioaccumulation**

**PBT and vPvB assessment** No information available.

| Chemical name      | PBT and vPvB assessment         |
|--------------------|---------------------------------|
| Triacetin, Natural | The substance is not PBT / vPvB |

#### Component Information

| Chemical name                  | Partition coefficient |
|--------------------------------|-----------------------|
| Triacetin, Natural<br>102-76-1 | 0.25                  |

**Mobility in soil** No information available.

**Other adverse effects** No information available.

## 13. Disposal considerations

#### Disposal methods

|  |   |
|--|---|
| <b>Waste from residues/unused products</b> | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Do not reuse empty containers.  |

## 14. Transport information

**DOT** Not regulated

**IATA** Not regulated

IMDG Not regulated

## 15. Regulatory information

### International Inventories

|               |            |
|---------------|------------|
| TSCA          | Listed     |
| DSL/NDSL      | Listed     |
| EINECS/ELINCS | Listed     |
| ENCS          | Not Listed |
| IECSC         | Listed     |
| KECL          | Not Listed |
| PICCS         | Listed     |
| AIIC          | Listed     |
| NZIoC         | Listed     |
| Taiwan        | Listed     |

#### **Legend:**

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

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

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

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AIIC** - Australian Inventory of Industrial Chemicals

**NZIoC** - New Zealand Inventory of Chemicals

**TCSI** - Taiwan Chemical Substance Inventory

### US 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)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **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.

### US State Regulations

#### **U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

**OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**16. Other information**

|             |                         |                       |                           |                              |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b> | <b>Health hazards</b> 0 | <b>Flammability</b> 1 | <b>Instability</b> 0      | <b>Special hazards</b> -     |
| <b>HMIS</b> | <b>Health hazards</b> 1 | <b>Flammability</b> 1 | <b>Physical hazards</b> 0 | <b>Personal protection</b> X |

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend Section 8: Exposure controls/personal protection**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | Sk*  | Skin designation                 |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Revision Number** 1  
**Revision date** 02-Jan-2025  
**Revision Note** No information available.

**Disclaimer**

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**End of Safety Data Sheet**