# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

## Trioctylmethylammonium acetate

Version number: GHS 2.0 Revision: 12.10.2023

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

| | |
|---|---|
| **Identification of the substance** | **Trioctylmethylammonium acetate** |
| **Registration number (REACH)** | this information is not available |
| **EC number** | 959-363-7 |
| **CAS number** | 35675-83-3 |
| **Reference number (ECHA)** | 02-2120963898-29-0000 |
| **Alternative name(s)** | TOMA OAc<br>1- Octanaminium ,N- Methyl-N,N- Dioctyl- , Acetat |
| **Alternative number(s)** | 00502.3000, 00502.6010 |

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

| | |
|---|---|
| **Relevant identified uses** | Product and process oriented research and development<br>Scientific research and development |
| **Uses advised against** | Do not use for private purposes (household). |
| **HS code** | 29239000. |

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

**proionic GmbH**
**Parkring 18, Trakt H/1**
**A-8074 Raaba-Grambach**
**Austria**

**Telephone: +43 (0) 316 4009-4200**
**e-mail: office@proionic.com**
**Website: www.proionic.com**

### 1.4 Emergency telephone number

| | |
|---|---|
| **Emergency telephone number** | Poisoning information center Austria:<br>+43 (0) 1 406 43 43 |
| **Emergency information service** | This number is only available during office hours Austria<br>Mo-fr 8am-4pm (CET): +43 (0) 316/ 4009- 4200 |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Caution! Substance not yet fully tested. Research chemical - research sample.

### Classification according to Regulation (EC) No 1272/2008 (CLP)

Self-classification. All information refers to analogy circuits.

| Section | Hazard class | Cat-egory | Hazard class and category | Hazard statement |
|---|---|---|---|---|
| 3.2 | skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 3.4S | skin sensitisation | 1B | Skin Sens. 1B | H317 |
| 4.1A | hazardous to the aquatic environment - acute hazard | 1 | Aquatic Acute 1 | H400 |
| 4.1C | hazardous to the aquatic environment - chronic hazard | 2 | Aquatic Chronic 2 | H411 |

For full text of abbreviations: see SECTION 16.

### The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008 (CLP)

**- signal word** warning

**- pictograms**

**GHS07, GHS09**

**- hazard statements**

**H315** Causes skin irritation.
**H317** May cause an allergic skin reaction.
**H410** Very toxic to aquatic life with long lasting effects.

**- additional statements**

Substance not yet fully tested.

**- precautionary statements**

**P261** Avoid breathing dust/fume/gas/mist/vapours/spray.
**P273** Avoid release to the environment.
**P280** Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/....
**P302+P352** IF ON SKIN: Wash with plenty of water.
**P333+P313** If skin irritation or rash occurs: Get medical advice/attention.
**P362+P364** Take off contaminated clothing and wash it before reuse.
**P391** Collect spillage.
**P501** Dispose of contents/container to industrial combustion plant.

## 2.3 Other hazards

There is no additional information.

# SECTION 3: Composition/information on ingredients

## 3.1 Substances

**Name of substance** Trioctylmethylammonium acetate

**Identifiers**

**CAS No** 35675-83-3
**EC No** 959-363-7
**Purity** <99,9 %

| | |
|---|---|
| **Molecular formula** | C27H57NO2 |
| **Molar mass** | 427,7 $^{g}/_{mol}$ |
| **Structural formula** |  |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Have this safety data sheet ready.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water. Consult a doctor.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of complaints: Consult a doctor.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. Consult a doctor.

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

The main symptoms and effects to be expected are described in section 2.2 and/or in chapter 11.

### 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

Water spray, Foam, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

#### Unsuitable extinguishing media

Water jet

### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### Special protective equipment for firefighters

Wear self-contained breathing apparatus

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Remove persons to safety.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

**Suitable protective equipment**

See chapter 8 of the safety data sheet .

### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains

#### Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder, Use isopropanol/ethanol to clean surfaces

#### Appropriate containment techniques

Use of adsorbent materials. Use inert absorbents .

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Observe notes from section 2.2 .

#### Recommendations

Contaminated surfaces must not be cleaned with compressed air due to the possible formation of aerosols.

**- measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep only in the original container in a cool, well-ventilated place. When not in use, keep containers tightly closed. Store upright.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2, no other specific uses are foreseen. .

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limit values (Workplace Exposure Limits)**

this information is not available

### 8.2 Exposure controls

Take precautions, which are usual when handling chemicals.

**Appropriate engineering controls**

General ventilation.

**Individual protection measures (personal protective equipment)**

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Eye/face protection**

Wear eye/face protection.

**Skin protection**

**- hand protection**

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. Disposal of contaminated gloves within the framework of legal regulations and good laboratory practice.

**- other protection measures**

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Dry hands thoroughly.

**Respiratory protection**

Respiratory protection not required.

**Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Physical state** | liquid |
| **Colour** | colorless to yellow |
| **Odour** | faintly like acetic acid and imidazoles |
| **Melting point/freezing point** | not determined |

| | |
|---|---|
| **Boiling point or initial boiling point and boiling range** | not determined |
| **Flammability** | this material is combustible, but will not ignite readily |
| **Lower and upper explosion limit** | not determined |
| **Flash point** | not determined |
| **Auto-ignition temperature** | not determined |
| **Decomposition temperature** | not relevant |
| **pH (value)** | not determined |
| **Kinematic viscosity** | not determined |

### Solubility(ies)

| | |
|---|---|
| **Water solubility** | miscible in any proportion |

### Partition coefficient

| | |
|---|---|
| **Partition coefficient n-octanol/water (log value)** | this information is not available |

| | |
|---|---|
| **Vapour pressure** | not determined |

### Density and/or relative density

| | |
|---|---|
| **Density** | not determined |
| **Relative vapour density** | information on this property is not available |

| | |
|---|---|
| **Particle characteristics** | not relevant (liquid) |

## 9.2 Other information

| | |
|---|---|
| **Information with regard to physical hazard classes** | hazard classes acc. to GHS (physical hazards): not relevant |

### Other safety characteristics

| | |
|---|---|
| **Miscibility** | Completely miscible with water. |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

Chemically stable.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Exposure to moisture .

### 10.5 Incompatible materials

Oxidisers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Substance not yet fully tested. All information refers to analogy circuits.

#### Classification according to GHS (1272/2008/EC, CLP)

There are no available test data for this substance.

#### Acute toxicity

Shall not be classified as acutely toxic.

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

No data available.

#### Respiratory or skin sensitisation

May cause an allergic skin reaction.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

No data available.

#### Reproductive toxicity

No data available.

#### Specific target organ toxicity - single exposure

No data available.

#### Specific target organ toxicity - repeated exposure

No data available.

### Aspiration hazard

No data available.

### 11.2 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

There is no ecological information for this substance.
Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

Data are not available.

### 12.3 Bioaccumulative potential

Data are not available.

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.

### 12.7 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Waste treatment-relevant information

Incineration. Residues and used material have to be disposed to an authorized waste treatment facility.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

#### Waste treatment of containers/packagings

Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

### 14.1 UN number or ID number

| | |
|---|---|
| **ADR/RID/ADN** | UN 3082 |
| **IMDG-Code** | UN 3082 |
| **ICAO-TI** | UN 3082 |

### 14.2 UN proper shipping name

| | |
|---|---|
| **ADR/RID/ADN** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| **IMDG-Code** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| **ICAO-TI** | Environmentally hazardous substance, liquid, n.o.s. |
| **Technical name** | Trioctylmethylammonium acetate |

### 14.3 Transport hazard class(es)

| | |
|---|---|
| **ADR/RID/ADN** | 9 |
| **IMDG-Code** | 9 |
| **ICAO-TI** | 9 |

### 14.4 Packing group

| | |
|---|---|
| **ADR/RID/ADN** | III |
| **IMDG-Code** | III |
| **ICAO-TI** | III |

### 14.5 Environmental hazards

hazardous to the aquatic environment

No data available.

### 14.6 Special precautions for user

Data are not available.

#### Information for each of the UN Model Regulations

**Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information**

| | |
|---|---|
| **Classification code** | M6 |
| **Danger label(s)** | 9, fish and tree |

| | |
|---|---|
| **Environmental hazards** | yes (hazardous to the aquatic environment) |
| **Special provisions (SP)** | 274, 335, 375, 601 |
| **Excepted quantities (EQ)** | E1 |
| **Limited quantities (LQ)** | 5 L |
| **Transport category (TC)** | 3 |
| **Tunnel restriction code (TRC)** | - |

| | |
|---|---|
| **Hazard identification No** | 90 |

### International Maritime Dangerous Goods Code (IMDG) - additional information

| | |
|---|---|
| **Marine pollutant** | yes (hazardous to the aquatic environment) (Trioctylmethylammonium acetate) |
| **Danger label(s)** | 9, fish and tree |

| | |
|---|---|
| **Special provisions (SP)** | 274, 335, 969 |
| **Excepted quantities (EQ)** | E1 |
| **Limited quantities (LQ)** | 5 L |
| **EmS** | F-A, S-F |
| **Stowage category** | A |

### International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

| | |
|---|---|
| **Environmental hazards** | yes (hazardous to the aquatic environment) |
| **Danger label(s)** | 9, fish and tree |

| | |
|---|---|
| **Special provisions (SP)** | A97, A158, A197, A215 |
| **Excepted quantities (EQ)** | E1 |
| **Limited quantities (LQ)** | 30 kg |

## SECTION 15: Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. There is no additional information.

### Additional information

Substance is listed in the following national inventories:
TCSI (Taiwan)
VNECI (Vietnam)
C&L Inventory (Europe)

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

## SECTION 16: Other information

### Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|---|---|
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) |

| Abbr. | Descriptions of used abbreviations |
|---|---|
| ADR/RID/ADN | Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN) |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| HS | Harmonized Commodity Description and Coding System (Harmonized System, drawn up by the World Customs Organisation) |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| vPvB | Very Persistent and very Bioaccumulative |

## Key literature references and sources for data

## European Union

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

## Dangerous good

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

## Classification procedure

Self-classification. All information refers to analogy circuits.

## List of relevant phrases

| Code | Text |
|---|---|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |

## Disclaimer

The data contained in this safety data sheet are based on the current knowledge and experience of proionic GmbH and do not purport to be all inclusive. The safety data sheet shall be used only as a guide. The data do not describe the products properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose, except as mentioned, be deduced from the data contained in this safety data sheet. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.
Proionic GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.
This safety data sheet has been compiled and is solely intended for this product – it may not be valid for this product used in combination with any material or any process
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