

## SAFETY DATA SHEET

Version 6.1  
Revision Date 05/28/2017  
Print Date 09/30/2019

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### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product name : TAE-1  
Product Number : SML0967  
Brand : Sigma  
CAS-No. : 1414469-59-2

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

Identified uses : Laboratory chemicals, Synthesis of substances

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

Company : Sigma-Aldrich Inc.  
3050 Spruce Street  
ST. LOUIS MO 63103  
UNITED STATES  
Telephone : +1 314 771-5765  
Fax : +1 800 325-5052

#### 1.4 Emergency telephone number

Emergency Phone # : +1-703-527-3887

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### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

#### 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Synonyms : 2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarbonyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide

Formula : C<sub>39</sub>H<sub>51</sub>N<sub>6</sub>O<sub>9</sub> . 3I  
Molecular weight : 1,128.57 g/mol  
CAS-No. : 1414469-59-2

No components need to be disclosed according to the applicable regulations.

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## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### **In case of skin contact**

Wash off with soap and plenty of water.

#### **In case of eye contact**

Flush eyes with water as a precaution.

#### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

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## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>), Hydrogen iodide

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

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## 6. ACCIDENTAL RELEASE MEASURES

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

Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

### 6.2 Environmental precautions

Do not let product enter drains.

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

Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

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

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2 - 8 °C

Store with desiccant.

### 7.3 Specific end use(s)

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

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## 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

General industrial hygiene practice.

#### Personal protective equipment

##### Eye/face protection

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.

##### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

##### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 30 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Respiratory protection is not required. Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- |  |                   |
|--|-------------------|
| a) Appearance                              | Form: solid       |
| b) Odour                                   | No data available |
| c) Odour Threshold                         | No data available |
| d) pH                                      | No data available |
| e) Melting point/freezing point            | No data available |
| f) Initial boiling point and boiling range | No data available |

g) Flash point	( )Not applicable
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

## 9.2 Other safety information

No data available

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 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

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen iodide

Other decomposition products - No data available

In the event of fire: see section 5

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

No data available (2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarbonyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide)

Inhalation: No data available (2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarbonyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide)

Dermal: No data available (2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarbonyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide)

No data available(2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarbonyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide)

#### **Skin corrosion/irritation**

No data available(2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarbonyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide)

#### **Serious eye damage/eye irritation**

No data available(2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarbonyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide)

#### **Respiratory or skin sensitisation**

No data available(2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarbonyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide)

#### **Germ cell mutagenicity**

No data available(2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarbonyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide)

#### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **Reproductive toxicity**

No data available(2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarbonyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide)

No data available(2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarbonyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide)

#### **Specific target organ toxicity - single exposure**

No data available(2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarbonyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide)

#### **Specific target organ toxicity - repeated exposure**

No data available

#### **Aspiration hazard**

No data available(2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarbonyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide)

#### **Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarbonyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide)

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## **12. ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

No data available

## 12.2 Persistence and degradability

No data available

## 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available(2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarboxyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide)

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Other adverse effects

No data available

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

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## 14. TRANSPORT INFORMATION

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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## 15. REGULATORY INFORMATION

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

No SARA Hazards

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

	CAS-No.	Revision Date
2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarboxyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide	1414469-59-2	

### New Jersey Right To Know Components

	CAS-No.	Revision Date
2,2',2'-[1,3,5-Triazine-2,4,6-triyltris(oxy-4,1-phenylenecarboxyloxy)]tris[N,N,N-trimethyl-ethanaminium tri-iodide	1414469-59-2	

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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## 16. OTHER INFORMATION

### HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

### NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

### Further information

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### Preparation Information

Sigma-Aldrich Corporation  
Product Safety – Americas Region  
1-800-521-8956  
Version: 6.1

Revision Date: 05/28/2017

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