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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.2 Revision Date 15.05.2019 Print Date 18.08.2021 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1	<b>Product identifiers</b> Product name	:	Triacetin
	Product Number Brand REACH No. CAS-No.	:	525073 Aldrich 01-2119484873-24-XXXX 102-76-1

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

Identified uses : Laboratory chemicals, Manufacture of substances

# 1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich Chemie GmbH Eschenstrasse 5 D-82024 TAUFKIRCHEN
Telephone Fax		+49 (0)89 6513-1130 +49 (0)89 6513-1161

E-mail address : technischerservice@merckgroup.com

# **1.4 Emergency telephone number**

Emergency Phone #

: 0800 181 7059 (CHEMTREC Deutschland) +49 (0)696 43508409 (CHEMTREC weltweit)

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

# 2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

# 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.

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# **SECTION 3: Composition/information on ingredients**

# 3.1 Substances

Synonyms	:	Glyceryl triacetate 1,2,3-Triacetylglycerol 1,2,3-Triacetoxypropane
Formula Molecular weight CAS-No. EC-No.	:	C9H <sub>14</sub> O <sub>6</sub> 218,20 g/mol 102-76-1 203-051-9

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

# **SECTION 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

# **SECTION 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
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

# **SECTION 6:** Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures** Avoid breathing vapours, mist or gas.

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For personal protection see section 8.

# **6.2 Environmental precautions** No special environmental precautions required.

- **6.3 Methods and materials for containment and cleaning up** Keep in suitable, closed containers for disposal.
- **6.4** Reference to other sections For disposal see section 13.

# **SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** 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. Store in cool place.
- **7.3** Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

# **Components with workplace control parameters**

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.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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: 480 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

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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 industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

# **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**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# **Control of environmental exposure**

No special environmental precautions required.

# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 3 °C - lit.
f)	Initial boiling point and boiling range	258 °C - lit.
g)	Flash point	138 °C - closed cup
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	Upper explosion limit: 7,73 %(V) Lower explosion limit: 1,05 %(V)
k)	Vapour pressure	0,003 hPa at 25 °C
I)	Vapour density	7,53 - (Air = 1.0)
m)	Relative density	1,16 g/cm3 at 25 °C
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	log Pow: 0,25
p)	Auto-ignition temperature	433 °C

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- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

# 9.2 Other safety information

Relative vapour 7,53 - (Air = 1.0) density

# SECTION 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 Other decomposition products - No data available In the event of fire: see section 5

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# Acute toxicity

LD50 Oral - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - male and female - 4 h - > 1,721 mg/l (OECD Test Guideline 403) LD50 Dermal - Rabbit - > 2.000 mg/kg

# Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)

# Serious eye damage/eye irritation

Eyes - Rabbit Result: No eye irritation (OECD Test Guideline 405)

# **Respiratory or skin sensitisation**

No data available

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# Germ cell mutagenicity

Ames test S. typhimurium Result: negative

# 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.

#### **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

# **Additional Information**

Repeated dose toxicity - Rat - male and female - No observed adverse effect level - 1.000 mg/kg RTECS: AK3675000

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

# **SECTION 12: Ecological information**

# 12.1 Toxicity

•	
Toxicity to fish	semi-static test LC50 - Oryzias latipes - > 100 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 380 mg/l - 48 h
Toxicity to algae	Growth inhibition EC50 - Selenastrum capricornutum (green algae) - > 940 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	NOEC - Pseudomonas putida - > 1.088 mg/l - 18 h

# 12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 29 d Result: 76 % - Readily biodegradable. (OECD Test Guideline 301B)

**12.3 Bioaccumulative potential** No data available

# 12.4 Mobility in soil

No data available

# 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent,

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bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **12.6 Other adverse effects**

No data available

# SECTION 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.

SECTION 14: Transport information				
<b>14.1 UN number</b> ADR/RID: -	IMDG: -	IATA: -		
IMDG: Not dangerous go	ADR/RID: Not dangerous goods IMDG: Not dangerous goods			
14.3 Transport hazard class(es ADR/RID: -	5) IMDG: -	IATA: -		
14.4 Packaging group ADR/RID: -	IMDG: -	IATA: -		
14.5 Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no		
14.6 Special precautions for us	ser			

No data available

# **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.

# 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

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# **SECTION 16: Other information**

#### **Further information**

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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. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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