



Triacetin Chemical Safety Data Sheet

MSDS

1. Identification

Production Name	:Triacetin
Synonyms	:Glyceryl triacetate
Molecular formula	:C ₉ H ₁₄ O ₆
Relative molecular weight	:218.20 g/mol
CAS No.	:102-76-1

Hazards identification

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

2. Composition and Characteristics

Main ingredients	: 1,2,3-Triacetyl glycerol
Appearance and Properties	: odorless and Colorless oily liquid,.
Main uses	Additives for food, soap, candles, and viscose; Solvents/plasticizers for as gunpowder, leather tanning and dyes.

3. Hazards

3.1 Invasion routes

Referring to current information, no physical /chemical / environmental hazard.

3.2 Health hazards

It may have irritating effects, but generally recognized as no health hazards for food and industrial applications.

4. First aid measures

In case of skin contact

Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

Lift eyelids and rinse with plenty of water or saline. Seek for medical help.

If inhaled

Quickly leave the leak site to fresh air. Keep the airway open. If breathing is difficult, provide oxygen therapy. If breathing stops, provide artificial respiration immediately and seek for medical help.

If swallowed





Make victim drink water (two glasses at most). Consult doctor if feeling unwell.

5. Explosion characteristics and firefighting

Flash point	: 148.8 °C
Upper explosion limit	: 7.73 %(V)
Ignition temperature	: 433 °C
Lower explosion limit	: 1.05 %(V)

Hazardous characteristics

In case of high heat, open flame or oxidants contacts, combustion could happen.

Extinguishing methods

If possible, move the container to an open place. Keep fire containers cool by spraying water. If the container in fire has discolored or produced sound from the safety pressure relief device, must evacuate immediately.

Extinguishing media: water mist, foam, dry powder, carbon dioxide, sand.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemisorb®).

Dispose of properly. Clean up affected area.

7. Handling and transportation

Store in a cool, ventilated warehouse. Keep away from oxidizer, fire and heat sources. Protect from sunlight. Keep container tightly closed. Equipped with firefighters of corresponding types and numbers and emergency release containers.

8. Exposure Controls/Personal Protection

8.1 Control parameters



Ingredients with workplace control parameters. Do not let product enter drains.

8.2 Personal protective measures

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

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Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Respiratory protection

Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

9. Physical and Chemical Properties

Melting point	: 4.1 °C
Boiling point	: 258~260 °C
Relative density (water = 1)	: 1.164
Relative density (air=1)	: 7.52
Saturated vapor pressure	: 0.133(100°C)
Logarithmic value of octanoic acid/water partition coefficient	: No information available
Heat of combustion	: No information available
Critical temperature	: No data available



Critical pressure	: No data available
Solubility	: Soluble in water, miscible in alcohol, ether, chloroform and benzene

10. Stability and Reactivity

10.1 Stability

Stable under recommended storage conditions.

10.2 Possibility of hazardous reactions

No data available

10.3 Incompatible materials

Strong oxidizing agents

10.4 Hazardous decomposition products

No data available

11. Toxicological Information

11.1 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 – aerosol

11.2 Skin corrosion/Irritation

Eyes - Rabbit

Result: No eye irritation

11.3 Subacute and chronic toxicity

No data available

11.4 Reproductive toxicity

No data available

11.5 Carcinogenicity

No data available

11.6 Mutagenicity

No data available

12. Environmental Information

No special environmental precautions required.

13. Disposal

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

14. Transport Information

Dangerous Regulations : No information

United Nations number : No data available





Package classification :
Package mark :
Packaging method : No information available.

15. Regulatory Information

“Regulations on Safety Management of Chemical Hazardous Substances” (issued by the State Council on February 17, 1987); “Implementation Detailed Rules for Regulations on Safety Management of Chemical Hazardous Substances” (Hua Lao Fa [1992] No. 677); “Workplace Safety Regulations on Use of Chemicals” ([1996] Ministry of Labor No. 423) and other regulations, which aim at the safe use of hazardous chemicals, Production, storage, transportation, loading and unloading, have all made corresponding regulations.

16. Other Information

References : EN 166(EU); DIN EN 143; DIN 14387; EN374
Department to fill in the form :
Data review unit :
Modify the description :
Other information :

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