

	MATERIAL SAFETY DATA SHEET	MSDS No.	M-01
	Triacetin According to 1907/2006/EC, Article 31	Effective From	25.05.2023

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

1.1 Product identifier

Trade name: Triacetin

Chemical Identification: CAS number: 102-76-1

EC number: 203-051-9

REACH registration number: 01-2119484873-24-XXXX

UFI: not applicable.

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

Application of the substance / the preparation:

Relevant identified uses:

Used in adhesives and sealants, inks, flavours and fragrances, cosmetics, smoking products, cleaning products, medical devices, and used in the manufacturing process of metals.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Bloomchemag BV

Sint-Antoniusstraat 16 b1B-2400, Mol, Belgium

Tel: +91 7291970499

E-mail: info@bloomchemag.com

1.4 Emergency telephone number(s):

+91 7291970499

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance is not classified, according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008: Not applicable.

Hazard pictograms: Not applicable.

Signal word: Not applicable.

Hazard statements: Not applicable.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: No PBT.

vPvB: No vPvB.

Determination of endocrine-disrupting properties

The substance does not have endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS Number. Description.

102-76-1 Triacetin

Identification number(s)

EC number: 203-051-9

Additional information: purity: 99.5%.

Specific concentration limits not applicable.

M-factor not applicable.

Acute toxicity estimate (ATE) values not available.

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation: Move patient to fresh air, if symptoms persist consult a doctor.

After skin contact: Wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, powder, foam, Aqueous Film Forming (AFF).

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Do not inhale gases / fumes / aerosols.

Use personal protective equipment. Keep unprotected persons away.

6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material.

Dispose of the material collected according to official regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with the eyes and skin.

Wear personal protective equipment when handling.

For bulk handling, ensure all equipment is electrically grounded before beginning of transfer operation.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in a dry, cool and well-ventilated area.

Keep container tightly closed.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Individual protection measures, such as personal protective equipment

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Recommended Filter type: A.

Hand protection



Protective gloves.

Eye/face protection



Safety goggles (EN 166).

Body protection: Protective work clothing.

Environmental exposure controls

Avoid the release of the product into the environment. Comply with local and national law.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Fluid

Colour:

Colourless.

Odour:

Odour threshold:

Not determined.

Melting point/freezing point:

-78 °C

Boiling point or initial boiling point and boiling range

258-259 °C

Flammability

Product is not flammable.

Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	148 °C
Auto-ignition temperature:	433 °C
Decomposition temperature:	Not determined.
pH	Not determined.
Kinematic viscosity	
Dynamic:	Not determined.
Solubility	
Water at 25 °C:	58 g/l
Partition coefficient n-octanol/water (log value)	0.25
Vapour pressure at 25 °C:	0.003306 hPa
Density and/or relative density	
Density at 20 °C:	1.161 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Particle characteristics	Not applicable.

9.2 Other information

Appearance:	
Form:	Fluid
Explosive properties:	Product does not present an explosion hazard.
Molecular weight	218.21 g/mol
Softening point/range	
Oxidising properties	Not oxidising.
Evaporation rate	Not determined.

Information with regard to physical hazard classes

Explosives	Not applicable.
Flammable gases	Not applicable.
Aerosols	Not applicable.
Oxidising gases	Not applicable.
Gases under pressure	Not applicable.
Flammable liquids	Not applicable.
Flammable solids	Not applicable.
Self-reactive substances and mixtures	Not applicable.
Pyrophoric liquids	Not applicable.
Pyrophoric solids	Not applicable.
Self-heating substances and mixtures	Not applicable.
Substances and mixtures, which emit flammable gases in contact with water	Not applicable.
Oxidising liquids	Not applicable.
Oxidising solids	Not applicable.
Organic peroxides	Not applicable.
Corrosive to metals	Not applicable.
Desensitised explosives	Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity Stable under normal conditions of use, storage, and transport.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid Keep away from heat and direct sunlight.

10.5 Incompatible materials Strong oxidizing agents.

10.6 Hazardous decomposition products No hazardous decomposition products known.

SECTION 11: Toxicological information

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

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values:

Oral	LD50	>2,000 mg/kg (Rat) (OECD 401)
Inhalative	LC50/4h	>1.7 mg/L air (Rat) (OECD 403)

Skin corrosion/irritation: not irritating, rabbit, OECD 404.

Serious eye damage/irritation: not irritating, rabbit, OECD 405.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Additional toxicological information:

Repeated dose toxicity

Oral	NOAEL	1,000 mg/kg bw/day (Rat) (OECD 422)
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11.2 Information on other hazards

11.2.1 Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

LC50/96h	>100 mg/L (Fish) (OECD 203)
EC50/48h	380 mg/L (Daphnia Magna) (EU C.2)
EC50/72h	>940 mg/L (Algae) (OECD 201)
NOEC/18h	>1,088 mg/L (Activated sludge)

12.2 Persistence and degradability Readily biodegradable.

12.3 Bioaccumulative potential Bioaccumulation is not expected due to log Kow.

12.4 Mobility in soil log Koc: 1.61 (KOCWIN v2.00).

12.5 Results of PBT and vPvB assessment

PBT: No PBT.

vPvB: No vPvB.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional environmental information:

General notes:

Water hazard class 1 (German Regulation) (Assessment by list): Slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation: Disposal must be made in accordance with official regulations.

Uncleaned packaging:

Recommendation:

Packaging that may not be cleansed must be disposed of in the same manner as the product.

SECTION 14: Transport information

14.1 UN number or ID number

ADR, IMDG, IATA Not applicable.

14.2 UN proper shipping name

ADR, IMDG, IATA Not applicable.

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA
Class Not applicable.

14.4 Packing group

ADR, IMDG, IATA Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended (including amendments introduced by Regulation (EU) 2020/878).

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.

Regulation (EC) No 273/2004 on drug precursors Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

15.2 Chemical safety assessment A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:

WEL: Workplace Exposure Limits

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent