TRIACETIN
Safety Data Sheet

Supersedes: 29/07/2025 Revision: 1.4 Revision date: 28/03/2026

SECTION 1: Identification

1.1 Identification

Product form	:	Substance
Substance name	:	Triacetin
Substance Available Grade	:	Industrial & FI Grade
CAS No	:	102-76-1
EC/ List No	:	203-051-9
Formula	:	$C_9H_{14}O_6$
Molecular weight	:	218.2 g/mol
Synonyms	:	Glycerol triacetate, 1,2,3-Propanetriol triacetate

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

Use of the substance/mixture	:	As an F&F ingredient, Food additives, Plasticizer etc.

1.3 Details of the supplier of the safety data sheet

Godavari Biorefineries Ltd.
45/47, Somaiya bhavan,
Mahatma Gandhi Road,
Fort, Mumbai -400001, INDIA.
T 0091 22 22048272
Email: alka@somaiya.com
www.somaiya.com

1.4 Emergency telephone Number

Emergency number	:	0091 2423 279308, 0091 22 61702100/22048272 0091 22 22048272 (Monday – Friday - 09.30 hrs to 18.00 hrs)

SECTION 2: Hazard(s) identification

GHS classification

2.1 Classification of the substance or mixture

The substance is not classified, according to the Globally Harmonized System (GHS).	:	Not classified.

2.2 GHS labeling

Hazard pictograms (GHS)	:	No pictogram.
Signal word (GHS)	:	No signal word.
Hazard statements (GHS)	:	Not applicable.
Precautionary statements (GHS)	:	Not applicable.

2.3 Other hazards

Other hazards not contributing to the Classification	:	The substance is not PBT / vPvB.

2.4 Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/Information on ingredients

3.1 Substance

Substance type : Mono-constituent

Name	Product Identifier CAS No. EC No.	Concentration %	GHS Classification
Triacetin (Main constituent)	102-76-1 203-051-9	Triacetin-Industrial Grade : Min. 97.00% Triacetin-FI Grade : Min. 99.00%	Not classified.

Full text of hazard classes and H-statements : see section 16

3.2 Mixture

None.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information : First aid personnel should pay attention to their own safety.

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

Skin contact : Wash off immediately with soap and plenty of water.

Eye contact : Flush eyes with water as a precaution.

Ingestion : Never give anything by mouth to an unconscious person. Rinse out mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : No further relevant information available.

Symptoms/injuries after skin contact : No further relevant information available.

Symptoms/injuries after eye contact : No further relevant information available.

Symptoms/injuries after ingestion : No further relevant information available.

Chronic symptoms : 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 media : CO_2, powder, foam, Aqueous Film Forming (AFF).

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Fire hazard : In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Explosion hazard : Product does not present an explosion hazard.

Reactivity : Not reactive under recommended conditions of handling, storage, processing and use.

5.3 Advice for firefighters

Firefighting instructions	:	Wear self-contained breathing apparatus for firefighting if necessary
Protection during firefighting	:	Equipment should be thoroughly decontaminated after use.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment	:	Wear fully protective suite.
Emergency procedures	:	Keep unprotected persons away.

6.1.2 For emergency responders

Protective equipment	:	Equip cleanup crew with proper protection.
Emergency procedures	:	Prevent further leakage or spillage if safe to do so.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning up

For containment	:	Do not re-use empty containers.
Methods for cleaning up	:	Contain and collect spillage with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national 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

Precautions for safe handling	:	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Avoid breathing dust / fume / gas / mist / vapours. Do not swallow. For bulk handling, ensure all equipment is electrically grounded before beginning of transfer operation.
Hygiene measures	:	Provide eyewash station and safety shower.

7.2 Conditions for safe storage, including any incompatibilities

Incompatible products	:	No data available.
Incompatible materials	:	Strong oxidizing agents.
Storage temperature	:	Ambient Load / Unload temperature: 33 - 38°C
Heat-ignition	:	KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources.
Prohibitions on mixed storage	:	KEEP SUBSTANCE AWAY FROM: combustible materials.
Storage area	:	Store in a cool, dry, well-ventilated area. General (mechanical) and local exhaust ventilation. Isolate from incompatible material.
Special rules on packaging	:	Keep container tightly sealed. Store only in the original receptacle.
Packaging materials	:	No data available

7.3 Specific end uses

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational exposure limits:

Exposure limits not established in US.

8.2 Exposure controls

Appropriate engineering controls	:	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Personal protective equipment	:	 Gloves
Materials for protective clothing	:	The material the gloves are made of must be impermeable and stable when in contact with the substance.
Eye protection	:	Protective Glasses
Skin and body protection	:	Protective work clothing.
Respiratory protection	:	Use suitable respiratory protective device in case of insufficient ventilation.
Thermal hazard protection	:	None necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear Colourless Liquid
Colour	:	Colorless
Odour	:	Fatty
pH	:	5 – 6 at 20 °C
Freezing point	:	- 78 °C
Initial boiling point/boiling range	:	258 - 259 °C
Flash Point	:	138 °C – Closed cup
Relative density	:	1.154 to 1.164 g/cm^3 at 20°C
Relative vapour density at 20°C	:	No Data Available
Specific gravity/ density	:	1.154 to 1.164 g/cm^3 at 20°C
Molecular mass	:	218.2 g/mol
Flammability(Solid, Gas)	:	Not flammable
Solubility	:	58 g/L(Water at 25 °C) Vapor pressure
Vapour density	:	No Data Available
Evaporation Rate	:	No Data Available
Partition coefficient n-octanol/water	:	0.25 Log Kow
Auto-ignition temperature	:	433 °C (811.4 °F) Decomposition temperature

Viscosity	:	13 to 21 mPas (Dynamic)
Oxidizing properties	:	Non oxidizing

9.2 Other information

No Data Available.

SECTION 10: Stability and reactivity

10.1 Reactivity	:	Not reactive under recommended conditions of handling, storage, processing and use.
10.2 Chemical Stability	:	Stable under normal conditions.
10.3 Possibility of hazardous reactions	:	Hazardous polymerisation will not occur.
10.4 Conditions to avoid	:	Avoid contact with incompatible materials.
10.5 Incompatible materials	:	Strong oxidizing agent
10.6 Hazardous decomposition products	:	No data.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Likely routes of exposure	:	Not classified.
Acute toxicity	:	Based on available data, the classification criteria are not met.

Triacetin (102-76-1)		
LD50 oral toxicity	:	>2,000 mg/kg body weight (Wistar Rat male/female) (Acute Toxicity: oral)
LD50 dermal toxicity	:	> 5000 mg/kg bw body weight (Rabbit) (Acute Toxicity: dermal)

Skin irritation	:	Not classified.
Serious eye damage/irritation	:	Not classified.
Respiratory or skin sensitisation	:	Not classified.
Germ cell mutagenicity	:	Not classified.
Carcinogenicity	:	Not classified.
Reproductive toxicity	:	Not classified.
Specific target organ toxicity (single exposure)	:	Not classified.
Specific target organ toxicity (repeated exposure)	:	Not classified.
Aspiration hazard	:	Not classified.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately. Handle in accordance with good industrial hygiene and safety practice

SECTION 12: Ecological information

Ecology - general	:	Not classified as dangerous for the environment according to the criteria of Regulation (EC) No. 1272/2008.
Ecology - air	:	Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology – water	:	Not harmful to fishes and invertebrates (Daphnia). Not harmful to algae.

Triacetin (102-76-1)					
	Toxicity to Fish	**Toxicity to aquatic invertebrates**		**Toxicity to Microorganisms**	**Toxicity to aquatic algae and cyanobacteria**
Species	**Oryzias latipes**	**Daphnia magna**	**Daphnia magna**	**Pseudomonas putida**	**Raphidocelis subcapitata**
Value	LC 50:>100 mg/L	EC50: 380 mg/L	EC 50: > 94 mg/L	NOEC: >1088 mg/L	EC50: > 940 mg/L
Exposure time	96 h(short term)	48h (short term)	21d (long term)	18h	72 h
Test method: OECD	203	-	211	209	201

12.2 Persistence and degradability

Triacetin (102-76-1)

Persistence and degradability : Readily biodegradable

12.3 Bio accumulative potential

Triacetin (102-76-1)

Log Kow	:	0.25 LogPow
Bioaccumulative potential	:	The potential for bioaccumulation of triacetin (CAS 102-76-1) in aquatic species is low based on a low log Kow of 0.25.

12.4 Mobility in soil

Triacetin (102-76-1)

Surface Tension	:	No further relevant information available.
Ecology – soil	:	Calculations with KOCWIN v2.00 resulted in a log Koc of 1.61 (MCI), indicating that the substance has a low potential to adsorb to organic soil and sediment particles a low potential for adsorption.

12.5 Results of PBT and vPvB assessment

The substance is not PBT and vPvB .

12.5 Other adverse effects

No Data Available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste disposal recommendations : Do not let product enter drains.
Since emptied containers retain product residue, follow label warnings even after container is emptied.
According to local/national regulations.

SECTION 14 : Transport Information

Marine transport (IMDG)

UN/ID No.	:	Not regulated.
Proper shipping name	:	Not regulated
Hazard Class	:	--
Subsidiary Risk	:	--
Packaging group	:	--

Marine pollutant	:	--
Hazard Labels	:	--
EmS code	:	--

Air transport ICAO/IATA

UN number	:	Not regulated
Proper shipping name	:	--
Hazard Class	:	--
Subsidiary Risk	:	--
Packaging group	:	--
Hazard Labels	:	--

Department of Transportation (DOT)

UN number	:	Not regulated.
Proper shipping name and description	:	--
Class	:	--
Packaging group	:	--
Reportable Quantity (RQ)	:	--
Poison Inhalation Hazard	:	--
Hazard labels	:	--

SECTION 15: Regulatory information

15.1 National regulations

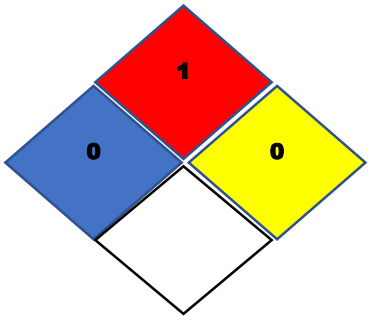
Country	National Inventories	Listing
Australia	AIIC	Listed
Turkey	IECSC	Listed
New Zealand	NZIoC	Listed
PHILIPPINES	PICCS	Listed
Taiwan	TCSI	Listed

SECTION 16: Other information

16.1 Hazard Statement

Not classified.

16.2 NFPA Rating



16.3 Abbreviations and acronyms

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

SCBA = Self Contained Breathing Apparatus

NIOSH REL= National Institute for Occupational Safety and Health Recommended Exposure Limit

OSHA PEL=Occupational Safety and Health Adminstration Permissible Exposure Limit

OELTWA= Occupational Exposure Limit Time Weighted Averages

IDLH= Immediately Dangerous to Life or Health

UEL= Upper Explosive Limit

LEL= Lower Explosive Limit

RTECS= Registry of Toxic Effects of Chemical Substances

NTP=National Toxicology Programm

IARC= International Agency for Research on Cancer

EPA=Environmental Protection Agency

TSCA= Toxic Substances Control Act

NFPA= National Fire Protection Association

CSR = Chemical Safety Report

BCF = Bio Concentration Factor

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

TLV = Threshhold Limit Value

ACGIH = American Conference of Governmental Industrial Hygienist

REACH = Registration, Evaluation. Authorisation and Restriction of Chemicals

CLP = Classification, Labelling and Packaging

LD / LC = Lethal Doses / Lethal Concentration

GHS = Globally Harmonised System

ADR = Accord europeen relative au transport international de marchandises

IMDG-Code = International Maritime Code for Dangerous Goods

EmS = Emergency measures on Sea

ICAO = International Civil Aviation Organization

IATA/DGR= International Air Transport Association/Dangerous Goods Regulation

16.4 Further information:

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