

SAFETY DATA SHEET



Tradename: Trimethylolpropanetricaprylat/caprat

Print Date: 6. January 2021

Version: 2.1, revision date: 02.01.2021

Replaced version: 2.0 created on: 04.07.2019

Region: EN

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

1.1. Product identifier

Product name / Trade name

Trimethylolpropanetricaprylat/caprat

CAS Number: 11138-60-6
EC number: 234-392-1 / 812-652-0
Registration number: 01-2119498305-31-0006

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

Application of the substance / the mixture

Slip agent / lubricant
Lubricant
Lubricating oil

Uses advised against

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Company

SysKem Chemie GmbH
Brucknerweg 26
D-42289 Wuppertal

Telephone +49 (0) 202/30999510
Telefax +49 (0) 202/87088403
E-mail address info@syskem.de

Prepared by / E-mail address of person responsible for the SDS

info@syskem.de

1.4. Emergency telephone number

Vergiftungs-Informationen-Zentrale Freiburg, Tel. +49 761 19240.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

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

2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008)

No labelling applicable

2.3. Other hazards

No additional information available



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SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical characterisation:

Substances Trimethylolpropane tricaprylate/caprate

CAS No.

11138-60-6

Description

Trimethylolpropane, triester with octanoic and decanoic acid

Identification number(s)

EC number: 812-652-0

SVHC

The product does not contain any substances of very high concern (SVHC).

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice:

No special measures required.

If inhaled:

Supply fresh air; consult doctor in case of complaints.

In case of skin contact:

Generally the product does not irritate the skin.
Wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

In case of eye contact:

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

If swallowed:

Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.

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 media

Use fire extinguishing methods suitable to surrounding conditions.

Unsuitable extinguishing media

Water with full jet



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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

Not required.

6.2. Environmental precautions

No special measures required.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4. Reference to other sections

No dangerous substances are released.
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

No special measures required.

Information about fire - and explosion protection

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Not required.

Further information about storage conditions:

Protect from exposure to the light.

Maximum storage temperature:

30°C

Storage class:

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7.3. Specific end use(s)

No further relevant information available.



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SECTION 8: Exposure controls/personal protection**Additional information about design of technical facilities:**

No further data; see section 7.

8.1 Control parameters**Ingredients with limit values that require monitoring at the workplace:**

Not required.

DNELs

Oral	DNEL	1.65 mg/kg bw/d (general population)
Dermal	DNEL	164.5 mg/kg bw/d (general population) 460.7 mg/kg bw/d (worker)
Inhalative	DNEL	5.7 mg/m ³ (general population) 32.5 mg/m ³ (worker)

PNECs

No toxic effects were observed up to the limit of the water solubility.
Thus, no PNEC can be derived.

Additional information

The lists valid during the making were used as basis.

8.2. Exposure controls**Personal protective equipment**

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

Not required.

Protection of hands:

Protective gloves

Material of gloves:

Nitrile rubber

Penetration time of glove material

Glove material: Nitrile rubber

Layer thickness: 0.10 mm

Penetration time: > 480 min (Level 6)

For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Nitrile rubber (i.e. KCL 740 nitrile disposable gloves Dermatrill®)

Eye protection:

Safety glasses

Body protection:

Protective work clothing



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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

General Information

Appearance:

Form

: Liquid

Colour

: Yellowish

Odour

: Characteristic

Odour threshold

: Not determined.

PH-value

: Not determined.

Change in condition

Meltig point /Melting range

: Not determined.

Initial boiling point and boiling range

: 448 °C

Drip point

Pour point

: < -45 ° C

Flash point

: > 245 °C

Flammability (solid, gas)

: Not applicable.

Decomposition temperature

: Not determined.

Auto-ignition temperature

: Not determined.

Explosive properties

: Product does not present an explosion hazard.

Explosion limits

Lower

: Not determined.

Upper

: Not determined.

Oxidising properties

: Not oxidizing.

Vapour pressure at 20 °C

: 10 hPa

Density at 20 °C

: 0.94 g/cm3

Relative density

: Not determined.

Vapour density

: Not determined.

Evaporation rate

: Not determined.

Solubility in / Miscibility with water

: Not determined.

Partition coefficient n-octanol/water (log P)

: > 2.7

Viscosity

Dynamic

: Not determined.

Kinematic

: 40 °C: 19.5 mm2/s

9.2. Other information

No further relevant information available.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No further relevant information available.

10.2. Chemical stability

No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No further relevant information available.



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10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Oral LD50 > 2,000 mg/kg (rat) (OECD 401)
Dermal LD50 > 2,000 mg/kg (rabbit) (OECD 402)
Inhalative LC50 > 5.1 mg/l (rat) (OECD 403)
read across

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

Skin corrosion/irritation

No irritant effect.

Serious eye damage/eye irritation

No irritant effect.

Respiratory or skin sensitisation

No sensitizing effects known.

Germ cell mutagenicity

Genotoxicity – AMES-Test	(Salmonella Typhimurium) (OECD 471) negative
Genotoxicity - Mammalian Cell Gene Mutation Assay	(Mouse lymphoma cells) (OECD 476) negative (read across)
Genotoxicity - Micronucleus assay	(mouse) (OECD 474) negative (read across)
Genotoxicity - Chromosome aberration assay	(Chinese Hamster Ovary Cells) (OECD 473) negative

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

Carcinogenicity

not carcinogenic

Reproductive toxicity

Oral Developmental toxicity - NOAEL 2,000 mg/kg (rat) (OECD 414)

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 toxicity

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

Additional information**Repeated dose toxicity**

Oral NOAEL 1,613 mg/kg (rat) (OECD 407)
read across



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SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:**

No toxic effects were observed below the water solubility.

EC50	> 100 mg/l (alga) (OECD 201)
	> 100 mg/l (daphnia) (OECD 202)
LC50	> 10,000 mg/l (fish) (OECD 203)
Long term toxicity - NOEC	> 2,570 mg/l (daphnia)

12.2 Persistence and degradability

Easily biodegradable

Method OECD 301B

Analysing method CO 2 -Evolution

Degree of elimination: 72 - 79 %

Classification: readily biodegradable

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

The substance is not classified as PBT or vPvB.

12.6 Other adverse effects

No further relevant information available.

Additional ecological information:**Ecotoxicological effects:**

Terrestrial toxicity - NOEC	> 1,000 mg/kg dw (earth worm) (OECD 222) read across
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General notes

Generally not hazardous for water

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Recommendation**

Can be disposed of with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

Smaller quantities can be disposed of with household waste.

Uncleaned packaging:**Recommendation**

Disposal must be made according to official regulations.



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SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Toxic Substances Control Act (TSCA): Substance is listed.

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Substance is listed.

Inventory of Existing Chemical Substances in China (IECSC): Substance is listed.

Australian Inventory of Chemical Substances (AICS): Substance is listed.

Existing and New Chemical Substances (ENCS, Japan): 2-769

Korean Existing Chemical Inventory (KECI): KE-09451

Canadian Domestic Substances List (DSL): Substance is listed.

Existing Chemical Substances Inventory (ECSI, Taiwan): Substance is listed.

New Zealand Inventory of Chemicals (NZIC): Substance is listed.

Labelling according to Regulation (EC) No 1272/2008

Void

Directive 2012/18/EU

Named dangerous substances - ANNEX I

Substance is not listed.

Substances of very high concern (SVHC) according to REACH, Article 57

The product does not contain any substances of very high concern (SVHC).

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out.



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SECTION 16: Other information

Further 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.

Department issuing SDS

Product Safety

Reasons for changes

Section 1

Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

NOEL: No observed effect level

NOEC: No observed effect concentration

LOEC: Lowest observed effect concentration

BCF: Bio concentration factor

EC50: Effect concentration, 50 percent