

Material safety data sheet

According to EU Regulation 1907/2006 in the current version

MYRISTYL MYRISTATE

1. Identification of the substance/mixture and company

Trade name: Myristyl Myristate
I.N.C.I. Myristyl Myristate
CAS No. : 3234-85-3
EINESCS No. : 221-787-9
REACH No. : na
Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.ellemental.com
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture

The product has not been classified as hazardous according to the legislation in force.
Classification according to Regulation (EC) No 1272/2008 as amended.
Not classified

2.2 Label Elements

Not applicable

2.3 Other hazards

None known.

3. Declaration of ingredients

Chemical name:
Tetradecanoic acid, tetradecyl ester

3.1 Substances

General information:
No hazardous ingredients.

4. First aid measures

General:
Remove soiled or soaked clothing immediately

4.1 Description of first aid measures

Inhalation: fresh air supply, consult a doctor if feeling unwell.

Skin Contact: in case of contact with skin wash off immediately with soap and water In case of discomfort: Supply with medical care.

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Eye contact: In case of contact with eyes rinse thoroughly with water. In case of discomfort: Supply with medical care.

Ingestion: Thoroughly clean the mouth with water In case of discomfort: Supply with medical care.

4.2 Most important symptoms and effects, both acute and delayed:

Up to now no symptoms are known.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: Treat symptomatically.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture:

In the event of fire the following can be released: - carbon dioxide, carbon monoxide Under certain conditions of combustion traces of other toxic substances cannot be excluded

5.3 Advice for firefighters

Special fire fighting procedures:

Dust can form an explosive mixture with air. Avoid deposition of dust. Avoid formation of dust

Special protective equipment for fire-fighters:

Do not inhale explosion and/or combustion gases Self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

6.1.1 For non-emergency personnel:

No data available.

6.1.2 For emergency responders:

No data available.

6.2 Environmental Precautions:

Do not allow to enter drains or waterways Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up:

Remove mechanically. Take up residue with binding material (eg sawdust, sand, universal binder) Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections:

For further information on exposure monitoring and disposal see sections 8 and 13.

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7. Handling and storage

7.1 Precautions for safe handling:

Do not inhale dust/fumes/aerosols. Avoid contact with skin and eyes. Avoid raising dust.

7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a cool, well-ventilated place. No specific precautions.

7.3 Specific end use(s):

No further recommendations.

8. Exposure controls / personal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

DNEL-Values

Remarks: No DNEL/DMEL values on file.

PNEC-Values

Remarks: No PNEC values on file.

8.2 Exposure controls

Appropriate Engineering Controls:

No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection:

This product is not classified as an eye irritant. Any necessity for eye protection must be determined within the scope of a risk assessment.

Hand Protection:

Material: gloves made of nitril (NBR)

Break-through time: 480 min

Glove thickness: 0.11 mm

Material: gloves made of natural latex

Break-through time: 480 min

Glove thickness: 0.5 mm

Material: gloves made of chloroprene

Break-through time: 480 min

Glove thickness: 0.65 mm

Material: gloves made of butyl (IIR)

Break-through time: 480 min

Glove thickness: 0.7 mm

Material: protective gloves made of fluorinated rubber

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Break-through time: 480 min

Glove thickness: 0.7 mm

Skin and Body Protection:
protective clothing

Respiratory Protection:
in case of formation of vapours/dusts: Short term: filter apparatus, Filter P1

Hygiene measures:
Do not eat, drink or smoke when working. Wash hands before breaks and immediately after handling the product.
Remove soiled or soaked clothing immediately.

Environmental Controls:
The environmental regulations on the control and monitoring of environmental exposures are to be observed.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: solid

Form: Pellets

Color: White

Odor: faint inherent odour

Odor Threshold: not measured

pH: not measured

Melting Point: 40 °C

Boiling Point: not measured

Flash Point: 213 °C (Penskey-Marten CC)

Evaporation Rate: not measured

Flammability (solid, gas): No data available.

Flammability Limit - Upper (%): not measured

Flammability Limit - Lower (%): not measured

Vapor pressure: not measured

Relative vapor density: not measured

Density: not measured

Relative density: No data available.

Solubility(ies)

Solubility in Water: insoluble

Solubility (other): not measured

Partition coefficient (n-octanol/water): not measured

Self Ignition Temperature: not measured

Decomposition Temperature: not measured

Kinematic viscosity: not measured

Dynamic viscosity: not measured

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9.2 Other information

Explosive properties: not measured

Oxidizing properties: not measured

Minimum ignition temperature: 290 °C

Metal Corrosion: not measured

10. Stability and reactivity

10.1 Reactivity:

see section "Possibility of hazardous reactions".

10.2 Chemical Stability:

The product is stable under normal conditions.

10.3 Possibility of hazardous reactions:

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.

10.4 Conditions to avoid:

None with proper storage and handling.

10.5 Incompatible Materials:

Unknown

10.6 Hazardous Decomposition Products:

None with proper storage and handling.

11. Toxicological information

Information on likely routes of exposure

Inhalation:

Relevant route of exposure. Information on effects are given below.

Skin Contact:

Relevant route of exposure. Information on effects are given below.

Eye contact:

Relevant route of exposure. Information on effects are given below.

Ingestion:

If handled correctly, not a relevant route of exposure. Information on effects are given below.

11.1 Information on toxicological effects

Acute toxicity

Oral Product: LD 50 (Rat): > 5,000 mg/kg (OECD 401)

Dermal Product: No data available.

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Inhalation Product: Dusts, mists and fumes

Dusts, mists and fumes LC 50 (Rat, 4 h): > 5.7 mg/l (OECD 436, Yes)

Repeated dose toxicity

Product:

NOAEL (Rat, oral (gavage), daily): 1,000 mg/kg (OECD 408)

NOAEL (Rat(female), oral (gavage)): 300 mg/kg (OECD 422)

NOAEL (Rat(male), oral (gavage)): 1,000 mg/kg (OECD 422)

Skin Corrosion/Irritation: non-irritant

Product: OECD 404 (Rabbit, 24 h): non-irritant

Serious Eye Damage/Eye Irritation: non-irritant

Product: OECD 405 (Rabbit): non-irritant

Respiratory or Skin Sensitization: non-sensitizing

Product: OECD 429 (Mouse)non-sensitizing

Germ Cell Mutagenicity

No data available.

In vitro Product:

Bacterial reverse mutation assay (OECD 471): negative

Chromosomal aberration (OECD 473): negative

Chromosomal aberration (OECD 473): negative

gene mutation test (OECD 476): negative

In vivo Product: Chromosomal aberration (OECD 474) Intraperitoneal (Mouse, male/female): negative

Carcinogenicity

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: Not classified

Other adverse effects: Proper use provided, no adverse health effects have been observed or have been come to our knowledge.

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12. Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product:

LL 50 (Zebra Fish, 96 h): > 100 mg/l (OECD 203) The product was tested above its maximum solubility.

LC 50 (Zebra Fish, 96 h): > 100 mg/l (OECD 203) In the range of water solubility not toxic under test conditions.

Aquatic Invertebrates

Product:

EL50 (Daphnia magna, 48 h): > 100 mg/l (OECD 202) The product was tested above its maximum solubility.

EL50 (Daphnia magna, 48 h): > 100 mg/l (OECD 202) In the range of water solubility not toxic under test conditions.

Toxicity to Aquatic Plants

Product: No data available.

Toxicity to microorganisms

Product: EC 10 (activated sludge, 3 h): > 100 mg/l (OECD 209)

Chronic Toxicity

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: NOEC (Algae (*Pseudokirchneriella subcapitata*), 72 h): > 100 mg/l (OECD 201) The product was tested above its maximum solubility.

12.2 Persistence and Degradability

Biodegradation

Product: aerobic (28 d, OECD 301 C): 67 % Readily biodegradable

BOD/COD Ratio

Product: No data available.

12.3 Bioaccumulative potential

Product: No data available.

12.4 Mobility in soil:

No data available.

12.5 Results of PBT and vPvB assessment:

Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

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12.6 Other adverse effects:

Do not allow to enter soil, waterways or waste water canal. The Product is not considered to be a water pollutant (German law).

13. Disposal considerations

13.1 Waste treatment methods

General information: No data available.

Disposal methods: In accordance with local authority regulations, take to special waste incineration plant

Contaminated Packaging:

If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

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 and the IBC Code

Not applicable for product as supplied.

15. Regulatory information

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

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

15.2 Chemical safety assessment:

No exposure or risk assessment is required for this product since it is not classified for health or environmental risks.

International regulations

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Montreal protocol Not applicable
Stockholm convention Not applicable
Rotterdam convention Not applicable
Kyoto protocol Not applicable

16. Additional information

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.