Version: 02.2020

Material safety data sheet

According to EU Regulation 1907/2006 in the current version

ZINC RICINOLEATE

1. Identification of the substance/mixture and company

Trade name:	Zinc ricinoleate
I.N.C.I.	Zinc ricinoleate
CAS No. :	13040-19-2
EINESCS No. :	235-911-4
REACH pre-registration No. :	/
Utilization:	Raw material for cosmetics
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

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
Classification according to EU Directives 67/548/EEC or 1999/45/EC
No particular hazards known

2.2 Label elements

The product does not require a hazard warning label in accordance with GHS. The normal safety precautions for the handling of chemicals must be observed.

2.3 Other hazards:
None known

3. Declaration of ingredients

3.1. Substances
No hazardous ingredients acc. the 1999/45/EC and 67/548/EEC directives
Chemical Name: Zinc-di-ricinoleat

3.2. Mixtures
Non-applicable

4. First aid measures

4.1 Description of first aid measures

General advice: Remove contaminated clothing
Inhalation: Ensure supply of fresh air.
In the event of symptoms take medical treatment.
Skin contact: In case of contact with skin wash off immediately with soap and water

Consult a doctor if skin irritation persists.
Eye contact: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice
Ingestion: Thoroughly clean the mouth with water
Seek medical advice immediately.

4.2. Most important symptoms and effects, both acute and delayed
Symptoms: No information is on file to date regarding acute and/or delayed post-exposure symptoms and effects.

4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5. Fire fighting measures

5.1. Extinguishing media
Suitable extinguishing media: foam, carbon dioxide, dry powder, water spray.
Unsuitable extinguishing media: not applicable

5.2. Special hazards arising from the substance or mixture
In the event of fire the following can be released:
- carbon dioxide, carbon monoxide
- Zinc oxide

5.3. Advice for firefighters
Do not inhale explosion and/or combustion gases
Use self-contained breathing apparatus and wear protective suit

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective equipment.
Forms slippery/greasy layers with water

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
Pick up mechanically
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.

7. Handling and storage

7.1. Precautions for safe handling
Advice on safe handling: Ensure adequate ventilation.
Provide exhaust ventilation if dust is formed.

Hygiene measures: Do not eat, drink or smoke when working. Wash hands before breaks and after work.
General protective measures: Avoid contact with eyes and skin

7.2. Conditions for safe storage, including any incompatibilities
Prevention of fire and explosion
Information: No special measures required.
Storage
Information: Keep only in original container.
Further information on storage conditions: Keep container closed. Keep container in a cool, well-ventilated place
German storage class: 13

7.3. Specific end use(s)
No further recommendations

8. Exposure controls / personal protection

8.1. Control parameters
Contains no substances with occupational exposure limit values.
DNEL: No DNEL/DMEL values on file.
PNEC: No PNEC values on file.

8.2. Exposure controls
Eye protection: goggles with side pieces
Hand protection:
These recommendations apply only to the product mentioned in the material data safety sheet that we supply and the purpose that we indicate.
Examples of suitable gloves are those made by the company Kächele-Cama Latex GmbH, Am Kreuzacker 9, D-36124 Eichenzell, e-mail vertrieb@kcl.de, with subsequent specification (test according to EN374); specific workplace conditions must be separately taken into account.
Glove material: gloves made of natural latex
Break through time: > 480 min
Glove thickness: 0,5 mm
Glove material: gloves made of chloroprene (CR, e.g. Neoprene)
Break through time: > 480 min
Glove thickness: 0,6 mm
Glove material: gloves made of nitril (NBR)
Break through time: > 480 min
Glove thickness: 0,1 mm
Glove material: protective gloves made of fluorinated rubber (FKM, e.g. Viton)
Break through time: > 480 min
Glove thickness: 0,7 mm
Glove material: gloves made of butyl (IIR)
Break through time: > 480 min
Glove thickness: 0,3 mm
Body Protection: protective clothing
Respiratory protection: in case of formation of vapours/dusts:
Short term: filter apparatus, combination filter A-P2

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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties
Physical state: solid
Refraction index: Non-applicable
Form: Pellets
Colour: beige
Odour: characteristic
Odour Threshold: not measured
pH: not applicable
Melting point: Melting temperature ca. 71 °C
Boiling point: not measured
Flash point: > 250 °C
Evaporation rate: not measured
Flammability: no data available
Upper Explosion/Ignition Limit: Not measured
Lower explosion limit: Not measured
Vapour pressure: Not measured
Relative vapour density: not measured
Relative density: no data available
Solubility: not measured
Water solubility: insoluble
Partition coefficient (n-octanol/water): not measured
Autoignition temperature: not measured
Thermal decomposition: no data available
Viscosity, kinematic: no data available
Viscosity, dynamic: not applicable
Explosive properties: not measured
Oxidising properties: not measured

9.2.Other information
Bulk density: ca. 600 kg/m3 (20 °C)
Metal corrosion: not measured
Ignition temperature: ca. 440 °C

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
No hazardous reactions with proper storage and handling.

10.4. Conditions to avoid
10.5. Incompatible materials

Unknown

10.6. Hazardous decomposition products
no data available

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral): LD50
Species: Rat
Dose: > 2.000 mg/kg
Method: OECD Test Guideline 401
Remarks: Values refer to the main component.
Acute toxicity (inhalation): no data available
Acute toxicity (dermal): no data available
Irritation/corrosion of the skin: Species: rabbit
Result: non-irritant
Method: OECD 404
Remarks: Values refer to the main component.
Serious eye damage/ eye irritation: Species: rabbit
Result: non-irritant
Method: OECD 405
Remarks: Values refer to the main component.
Respiratory/skin sensitization: Species: Guinea pig
Result: non-sensitizing
Classification: Did not cause sensitization on laboratory animals.
Method: OECD 406
Repeated dose toxicity: no data available
CMR assessment
Carcinogenicity: no data available
Mutagenicity: no data available
Teratogenicity: no data available
Toxicity to reproduction: no data available
Specific Target Organ Toxicity -: no data available
Single exposure
Specific Target Organ Toxicity - Repeated exposure: no data available
Aspiration hazard No Aspiration toxicity classification
Other information: Proper use provided, no adverse health effects have been observed or have been come to our knowledge.

12. Ecological information

Ecotoxicology Assessment
Acute aquatic toxicity: no data available
Chronic aquatic toxicity: no data available

12.1.

Toxicity
Aquatoxicity, fish: Species: gold orfe
LC50: 27 mg/l
Method: OECD 203
Remarks: Values refer to the main component.
Aquatoxicity, invertebrates: no data available
Aquatoxicity, algae / aquatic plants: no data available
Toxicity in microorganisms: no data available
chronic toxicity in fish: no data available
Chronic toxicity in aquatic Invertebrates: no data available
Toxicity in organisms which live in the soil: no data available
Toxicity in terrestrial plants: no data available
Toxicity to Above-Ground Organisms: no data available

12.2. Persistence and degradability
Photodegradation: no data available
Biological degradability: Biological degradability: 99 %
Method: OECD 301 D
Remarks: Values refer to the main component.
Physico-chemical removability: no data available
Biochemical Oxygen Demand (BOD): no data available
Chemical Oxygen: no data available
Demand (COD) relation of BOD/COD: no data available
Dissolved organic carbon (DOC): no data available
Adsorbed organic bound halogens (AOX): no data available
Distribution among environmental compartments: no data available

12.3. Bioaccumulative potential
Bioaccumulation: no data available

12.4. Mobility in soil
Environmental distribution: no data available

12.5.Results of PBT and vPvB assessment
PBT and vPvB assessment: No data available

12.6. Other adverse effects
General Information: Do not allow to enter soil, waterways or waste water canal.
The product is considered to be a weak water pollutant (German law).

13. Disposal considerations

13.1. Waste treatment methods
Product: 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

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This product is not regulated for transport (ADR/RID,IMDG,IATA), Not dangerous according to transport regulations.
14.1.UN number:--
14.2.UN proper shipping name:--
14.3.Transport hazard class(es):--
14.4.Packing group:--
14.5.Environmental hazards:--
14.6Special precautions for user: No

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
National legislation
Technical instructions on Air Quality: 5.2.1
Major Accident Hazard Legislation
Water contaminating class (Germany): low hazard to waters
Classification acc. to German law
Risk classification according to BetrSichV (Germany):---
Other regulations: none

15.2 Chemical safety assessment.
No chemical safety assessment was carried out for this product

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.