



SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: ZINC RICINOLEATE

Chemical name:
Zinc-di-ricinoleat

Other means of identification

Recommended restrictions

Recommended use: Industrial Use
Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Company Name Chemistry Connection
 253 Sturgis Road
 Conway, AR 72034
 (501) 470-9689

Telephone : +1 501-470-9689

E-mail : contact@thechemistryconnection.com

Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)
Emergency

2. Hazard(s) identification

Hazard Classification

Label Elements

Hazard Symbol: No symbol
Signal Word: No signal word.
Hazard Statement: Not applicable
Precautionary Statements Not toxic after single exposure

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Chemical name:
Zinc-di-ricinoleat

Substances

4. First-aid measures

Description of necessary first-aid measures

General information:	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.
Personal Protection for First-aid Responders:	No data available.

Most important symptoms/effects, acute and delayed

Symptoms:	No information is on file to date regarding acute and/or delayed post-exposure symptoms and effects.
Hazards:	No data available.

Indication of immediate medical attention and special treatment needed

Treatment:	Treat symptomatically.
-------------------	------------------------

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

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

Specific hazards arising from the chemical: In the event of fire the following can be released: - carbon dioxide, carbon monoxide - Zinc oxide

Special protective equipment and precautions for firefighters

Special fire fighting procedures:	No specific precautions.
Special protective equipment for fire-fighters:	No data available.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Forms slippery/greasy layers with water
Methods and material for containment and cleaning up:	No data available.
Environmental Precautions:	Do not allow to enter drains or waterways Do not discharge into the subsoil/soil.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	No data available.
Safe handling advice:	Avoid contact with skin and eyes. Ensure adequate ventilation. Provide exhaust ventilation if dust is formed.
Contact avoidance measures:	No data available.
Hygiene measures:	No data available.

Storage

Safe storage conditions:	Keep container closed. Keep container in a cool, well-ventilated place Keep only in the original container.
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.
None of the components have assigned exposure limits.

Appropriate Engineering Controls	No data available.
---	--------------------

Individual protection measures, such as personal protective equipment

Eye/face protection: goggles with side pieces

Skin Protection

Hand Protection:

Material: gloves made of natural latex
Break-through time: > 480 min
Material: gloves made of chloroprene (CR, e.g. Neoprene)
Break-through time: > 480 min
Material: gloves made of nitril (NBR)
Break-through time: > 480 min
Material: protective gloves made of fluorinated rubber (FKM, e.g. Viton)
Break-through time: > 480 min
Material: gloves made of butyl (IIR)
Break-through time: > 480 min

Skin and Body Protection:	protective clothing
Respiratory Protection:	in case of formation of vapours/dusts: Short term: filter apparatus, combination filter A-P2
Hygiene measures:	No data available.

9. Physical and chemical properties

Appearance

Physical state:	solid
Form:	Pellets
Color:	Beige
Odor:	Characteristic
Odor Threshold:	not measured
pH:	Not applicable
Melting Point:	No data available.
Boiling Point:	not measured
Flash Point:	482.00 °F
Evaporation Rate:	not measured
Flammability (solid, gas):	no data available

Explosive limit - upper (%):	Not measured
Explosive limit - lower (%):	Not measured
Vapor pressure:	Not measured
Vapor density (air=1):	not measured
Density:	No data available.
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:	No data available.
Kinematic viscosity:	No data available.
Dynamic viscosity:	Not applicable

Other information

Bulk density:	600 kg/m ³ (20 °C)
Explosive properties:	Not to be expected in view of the structure
Oxidizing properties:	Not to be expected in view of the structure
Minimum ignition temperature:	approx. 440 °C
Metal Corrosion:	not measured

10. Stability and reactivity

Reactivity:	see section "Possibility of hazardous reactions"
Chemical Stability:	The product is stable under normal conditions.
Possibility of hazardous reactions:	No hazardous reactions with proper storage and handling.

Conditions to avoid:	none
Incompatible Materials:	Unknown
Hazardous Decomposition Products:	No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	If handled correctly, not a 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.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral	
Product:	LD 50 (Rat): > 2,000 mg/kg [Main component(s)]
Dermal	
Product:	no data available
Inhalation	
Product:	no data available

Repeated dose toxicity

Product:	no data available
-----------------	-------------------

Skin Corrosion/Irritation

Product:	non-irritant OECD 404 (Rabbit, 4 h): non-irritant
-----------------	--

Serious Eye Damage/Eye Irritation

Product:	non-irritant Rabbit: non-irritant
-----------------	--------------------------------------

Respiratory or Skin Sensitization

Product:	, OECD 406 (according to Magnusson and Kligman) (Guinea Pig)non-sensitizing
-----------------	---

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro
Product: Ames test (OECD 471): negative

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

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: LL50 (Zebra Fish, 96 h): > 10 mg/l

Aquatic Invertebrates
Product: EL50 (Daphnia magna, 48 h): > 10 mg/l

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: ErL50 (Estimated Loading rate) (Pseudokirchneriella subcapitata, 72 h):

7.28 mg/l
ErL10 (Estimated Loading rate) (Pseudokirchneriella subcapitata, 72 h):
3.86 mg/l
NOEL (Pseudokirchneriella subcapitata, 72 h): 1.25 mg/l

Persistence and Degradability

Biodegradation

Product: 95 % (28 d, OECD 301 D)

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: not measured

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

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

Domestic regulation

49 CFR

Not regulated as a dangerous good

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity

Reportable quantity

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Not classified

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

SARA 311/312 Hazardous Chemical

None present or none present in regulated quantities.

None present or none present in regulated quantities.

SARA 313 (TRI Reporting)

Chemical Identity

Zinc diricinoleate

Reporting threshold for other users

Otherwise used (non-manufacturing/processing)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Zinc diricinoleate

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Zinc diricinoleate

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

US TSCA Inventory: Included on Inventory.
Canada DSL Inventory List: Not in compliance with the inventory.
Canada NDSL Inventory: Included on Inventory.

16. Other information, including date of preparation or last revision

HMIS Hazard ID

Health		1
Flammability		1
Physical Hazards		0
PERSONAL PROTECTION		X

Ask supervisor or safety specialist for handling instructions

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 03/15/2019

Version #: 1.0

Further Information: none

Revision Information: Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Disclaimer: This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Chemistry Connection assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. CHEMISTRY CONNECTION EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF CHEMISTRY CONNECTION IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Chemistry Connection reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.