ZINC OCTOATE L 230

SECTION 1. IDENTIFICATION

Product identifier

Trade name : **ZINC OCTOATE L 230**

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

Use of the Substance/Mixture : Manufacture of plastics products
Polymer additive
Stabilizer

Recommended restrictions on use : None known.

Manufacturer or supplier's details

Company name of supplier : Baerlocher Production USA LLC
513-604-2327

Address : 5890 Highland Ridge Drive
Cincinnati OH 45232

Emergency telephone number : CHEMTREC: 1-800-424-9300 (inside U.S.) / 1-703 527-3887 (outside U.S.) Collect calls are accepted
China: (86) 0532 8388 9090

E-mail address : Hotline.PS@baerlocher.com

Responsible/issuing person : Product Safety Department

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Eye irritation : Category 2A

Reproductive toxicity : Category 2

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 3

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.

H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Combustible material

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Chemical nature : Substance

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Hexanoic acid, 2-ethyl-, zinc salt	136-53-8	<= 100

*Trade Secret - The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice : Remove and wash contaminated clothing before re-use.

If inhaled	:	Move to fresh air.
In case of skin contact	:	Wash off with soap and plenty of water. Take off contaminated clothing and shoes immediately.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids.
If swallowed	:	Call a physician immediately. Show this safety data sheet to the doctor in attendance.
Most important symptoms and effects, both acute and delayed	:	No information available.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Foam Carbon dioxide (CO2) Dry chemical Sand
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire-fighting	:	Smoke and fumes, toxic.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Remove all sources of ignition. Ensure adequate ventilation. Avoid contact with skin and eyes. Use personal protective equipment.
Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	:	Take precautionary measures against static discharges.

Keep away from sources of ignition - No smoking.
Provide sufficient air exchange and/or exhaust in work rooms.

Conditions for safe storage	:	Store at room temperature in the original container. Keep container tightly closed in a dry and well-ventilated place.
Technical measures/Precautions	:	Handle in accordance with good industrial hygiene and safety practice.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures	:	Local exhaust

Personal protective equipment

Respiratory protection	:	Up to 0.5 mg/m3: (APF=10) Any air-purifying respirator with a high-efficiency particulate filter/(APF=10) Any air-supplied respirator
Hand protection		
Glove thickness	:	>= 0.7 mm
Directive	:	protective gloves acc. to EN 374, e.g. neoprene
Eye protection	:	Safety glasses
Skin and body protection	:	Long sleeved clothing Rubber apron
Protective measures	:	antistatic shoes
Hygiene measures	:	When using do not eat or drink. Do not smoke. Wash hands before breaks and at the end of workday. Shower or bathe at the end of working. Keep working clothes separately. Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	light yellow
Odor	:	characteristic
Odor Threshold	:	No data available

pH	:	Not relevant
Melting point/range	:	No data available
Boiling point/boiling range	:	> 200 °C
Flash point	:	> 100 °C
Evaporation rate	:	No data available
Flammability (liquids)	:	Combustible Liquid
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	> 1 g/cm3 Method: DIN 51757
Solubility(ies)		
Water solubility	:	slightly soluble
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Refractive index	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable at normal ambient temperature and pressure.
Chemical stability	:	No decomposition if stored normally.
Possibility of hazardous reactions	:	Vapours may form explosive mixture with air.
Conditions to avoid	:	Keep away from heat and sources of ignition.

Incompatible materials	:	Not applicable
Hazardous decomposition products	:	No decomposition if used as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity Components:

Hexanoic acid, 2-ethyl-, zinc salt:

Acute oral toxicity	:	Remarks: Read-across (A LD50 (Rat): > 2,000 mg/kg Remarks: Based on available data, the classification criteria are not met.
Acute inhalation toxicity	:	Remarks: Not classified due to lack of data.
Acute dermal toxicity	:	Remarks: Read-across (Analogy) LD50 (Rat): > 2,000 mg/kg Remarks: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Components:

Hexanoic acid, 2-ethyl-, zinc salt:

Remarks: Read-across (Analogy)

Species: Rabbit
Method: OECD Test Guideline 404
Result: slight irritation
GLP: yes
Remarks: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Components:

Hexanoic acid, 2-ethyl-, zinc salt:

Remarks: Read-across (Analogy)

Species: Rabbit
Result: irritating
Method: OECD Test Guideline 405
GLP: yes

Respiratory or skin sensitisation

Components:

Hexanoic acid, 2-ethyl-, zinc salt:
Remarks: Skin sensitisation

Remarks: Read-across (Analogy)
Based on available data, the classification criteria are not met.

Remarks: Respiratory sensitisation

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

Germ cell mutagenicity

Components:

Hexanoic acid, 2-ethyl-, zinc salt:
Genotoxicity in vitro : Remarks: Read-across (Analogy)

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

Carcinogenicity

Product:
Remarks: This product contains no known or suspected carcinogens listed by IARC, NTP or OSHA at or above reportable quantities.

Components:

Hexanoic acid, 2-ethyl-, zinc salt:
Remarks: Read-across (Analogy)

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

Reproductive toxicity

Components:

Hexanoic acid, 2-ethyl-, zinc salt:
Effects on fertility : Remarks: Read-across (Analogy)

Remarks: Suspected of damaging the unborn child.

Remarks: Read-across (Analogy)

Remarks: Suspected of damaging the unborn child.

STOT - single exposure

Components:

Hexanoic acid, 2-ethyl-, zinc salt:

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

Repeated dose toxicity

Components:

Hexanoic acid, 2-ethyl-, zinc salt:

Remarks: Read-across (Analogy)
Based on available data, the classification criteria are not met.

Aspiration toxicity

Components:

Hexanoic acid, 2-ethyl-, zinc salt:

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

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Hexanoic acid, 2-ethyl-, zinc salt:

Toxicity to fish	:	Remarks: Read-across (Analogy) EC50 (Fish): >= 0.169 mg/l Exposure time: 48 h Remarks: Zinc EC50 (Fish): <= 0.78 mg/l Exposure time: 48 h Remarks: Zinc LC50 (Oryzias latipes): > 100 mg/l Exposure time: 96 h Remarks: Carboxylic acid
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: Read-across (Analogy) EC50 (Ceriodaphnia dubia (water flea)): >= 0.147 mg/l Exposure time: 48 h Remarks: Zinc

EC50 (Daphnia magna (Water flea)): 85.4 mg/l
Exposure time: 48 h
Remarks: Carboxylic acid

Toxicity to algae : Remarks: Read-across (Analogy)

IC50 (Selenastrum capricornutum (green algae)): 0.136 mg/l
Remarks: Zinc

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.019 mg/l
Remarks: Zinc

NOEC (Marine species): >= 0.0078 mg/l
Remarks: Zinc

NOEC (Marine species): <= 0.67 mg/l
Remarks: Zinc

EC50 (Desmodesmus subspicatus (green algae)): 49.3 mg/l
Remarks: Carboxylic acid

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : Remarks: Read-across (Analogy)

NOEC (Fish): >= 0.044 mg/l
Test Type: Fresh water
Remarks: Zinc

NOEC (Fish): <= 0.530 mg/l
Test Type: Fresh water
Remarks: Zinc

NOEC (Fish): 0.025 mg/l
Test Type: Marine water
Remarks: Zinc

Chronic Toxicity Value (Fish): 17.7 mg/l
Test Type: Fresh water
Method: QSAR
Remarks: Carboxylic acid

Chronic Toxicity Value (Fish): 40.2 mg/l
Test Type: Marine water
Method: QSAR
Remarks: Carboxylic acid

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: Read-across (Analogy)

NOEC: >= 0.014 mg/l
Test Type: Fresh water
Remarks: Zinc

NOEC: <= 0.4 mg/l
Test Type: Fresh water
Remarks: Zinc

NOEC: >= 0.0056 mg/l
Test Type: Marine water
Remarks: Zinc

NOEC: <= 0.9 mg/l
Test Type: Marine water
Remarks: Zinc

NOEC: 18 mg/l
Test Type: Fresh water
Remarks: Carboxylic acid

Toxicity to bacteria : Remarks: Read-across (Analogy)

NOEC (activated sludge): 0.1 mg/l
Exposure time: 4 h
Test Type: static test
Remarks: Zinc

EC50 (Pseudomonas putida): 112.1 mg/l
Exposure time: 17 h
Test Type: static test
Remarks: Carboxylic acid

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Persistence and degradability

Components:

Hexanoic acid, 2-ethyl-, zinc salt:

Biodegradability : Remarks: Read-across (Analogy)

aerobic
Inoculum: activated sludge
Result: Readily biodegradable.
Biodegradation: 99 %
Exposure time: 28 d
Method: OECD Test Guideline 301E
GLP: no

Bioaccumulative potential

Components:

Hexanoic acid, 2-ethyl-, zinc salt:

Bioaccumulation	:	Remarks: Read-across (Analogy) This substance is not considered to be bioaccumulating.
Partition coefficient: n-octanol/water	:	log Pow: > 5.7 Method: OECD Test Guideline 107 GLP: no

Mobility in soil

Components:

Hexanoic acid, 2-ethyl-, zinc salt:

Mobility	:	Remarks: Read-across (Analogy) Method: QSAR Remarks: Predicted distribution to environmental compartments Water

Other adverse effects

Components:

Hexanoic acid, 2-ethyl-, zinc salt:

Results of PBT and vPvB assessment	:	Based on available data, the classification criteria are not met.
Endocrine disrupting potential	:	No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Consult an expert on the disposal of recovered material. Ensure disposal in compliance with government requirements and ensure conformity to local disposal regulations. Dispose in accordance with local, state and federal regulations.
Contaminated packaging	:	Empty containers must be handled with care due to product residue.

SECTION 14. TRANSPORT INFORMATION

National Regulations

DOT
Not regulated as a dangerous good

International Regulations

IATA-DGR

UN/ID No.	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc bis(2-ethylhexanoate), solution)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passenger aircraft)	:	964

IMDG-Code

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc bis(2-ethylhexanoate), solution)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

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

SARA 313 : This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

Components	CAS-No.	Wt.
Zinc Compounds (N982)	136-53-8	100.0

The components of this product are reported in the following inventories:

EINECS	listed
TSCA	listed
DSL	listed
AICS	listed
ENCS	listed

ECL	listed
PICCS	listed
CHINA	listed

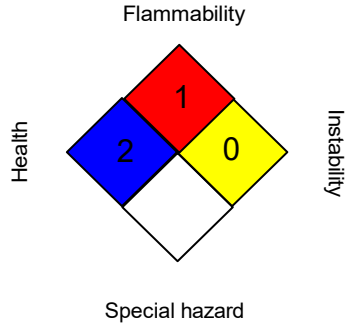
SECTION 16. OTHER INFORMATION

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil A viation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

NFPA:



HMIS III:

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 05/15/2023

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / EN