

CuLator Metal Eliminator

Version 1.1 Revision Date 2015-04-01

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

Product information

Trade name : CuLator Metal Eliminator, Metal XTract, CuLator Ultra 4.0

Use : Metal Chelating Agent, Metal Sequestering Agent

Company : Periodic Products, Inc.

1885 W State Road 84

Suite 104

Fort Lauderdale, FL 33315

Emergency telephone:

Health:

866.442.9628 (North America) 1.832.813.4984 (International)

Transport:

North America: CHEMTREC 800.424.9300 or 703.527.3887

Asia: +800 CHEMCALL (+800 2436 2255)

EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety

E-mail address : info@periodicproducts.com Website : www.periodicproducts.com

SECTION 2: Hazards identification

Emergency Overview

Form: Powder Physical state: Solid Color: white to yellow

OSHA Hazards : This material is not hazardous under the criteria of the Federal

OSHA Hazard Communication Standard 29CFR 1910.1200.

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

GHS-Labeling

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

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Carcinogenicity:

IARC No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

NTP No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

ACGIH No ingredient of this product present at levels greater than or equal

to 0.1% is identified as a carcinogen or potential carcinogen by

SECTION 3: Composition/information on ingredients

Poly-octadecylbutanedioate Synonyms

> 2,5-Furandione, polymer with 1-

octadecene, sodium salt

Molecular formula : $(C_{18}H_{36}-C_4H_2O_4Na_2)x$

Contains no hazardous ingredients according to GHS.

Component	CAS-No.	Weight %
Poly-octadecylbutanedioate	110707-31-8	100

SECTION 4: First aid measures

General advice : Do not leave the victim unattended.

If inhaled If unconscious place in recovery position and seek medical

advice. If symptoms persist, call a physician.

Remove contact lenses. Protect unharmed eye. If eye In case of eye contact

irritation persists, consult a specialist.

If swallowed Keep respiratory tract clear. Do not give milk or alcoholic

beverages. Never give anything by mouth to an unconscious

person. If symptoms persist, call a physician.

SECTION 5: Firefighting measures

Flash point : No data available

Autoignition temperature : Not applicable

Special protective

: Wear self-contained breathing apparatus for fire fighting if

equipment for fire-fighters necessary.

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Further information : Standard procedure for chemical fires. Use extinguishing

measures that are appropriate to local circumstances and the

surrounding environment.

Fire and explosion

protection

: Provide appropriate exhaust ventilation at places where dust is

formed.

Hazardous decomposition

products

: Carbon oxides.

SECTION 6: Accidental release measures

Personal precautions : Avoid dust formation.

Methods for cleaning up : Pick up and arrange disposal without creating dust. Sweep up

and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Handling

Advice on safe handling : For personal protection see section 8. Smoking, eating and

drinking should be prohibited in the application area.

Advice on protection against fire and explosion

Provide appropriate exhaust ventilation at places where dust is

formed.

Storage

Requirements for storage

areas and containers

Electrical installations / working materials must comply with the

technological safety standards.

Advice on common storage : No materials to be especially mentioned.

SECTION 8: Exposure controls/personal protection

Engineering measures

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection : No respiratory protection is ordinarily required under normal

conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid breathing of

material.

Hand protection : No skin protection is ordinarily required under normal

conditions of use. In accordance with good industrial hygiene

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practices, precautions should be taken to avoid skin contact. The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Safety glasses.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the

specific work-place. Wear as appropriate: Lightweight

protective clothing.

Hygiene measures : General industrial hygiene practice.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Form : Powder Physical state : Solid

Color : white to yellow

Safety data

Flash point : No data available

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : no

Autoignition temperature : Not applicable

Molecular formula : $(C_{18}H_{36}-C_4H_2O_4Na_2)x$

Molecular Weight : No data available

pH : Not applicable

Freezing point : No data available

Pour point No data available

Boiling point/boiling range : No data available

Vapor pressure : Not applicable

Relative density : 0.97, 15.6 °C(60.1 °F)

Water solubility : Insoluble in hydrocarbon solvents and water.

Partition coefficient: n-

octanol/water

: not applicable

Viscosity, dynamic : 2,500 cP

Relative vapor density : Not applicable

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Evaporation rate : Not applicable

Percent volatile : < 1 %

SECTION 10: Stability and reactivity

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions

Conditions to avoid : No data available.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Other data : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Keep in a dry place. No decomposition if stored and applied

as directed.

SECTION 11: Toxicological information

Acute oral toxicity

2,5-Furandione, polymer with : LD50: > 8,000 mg/kg

1-octadecene, sodium salt Species: rat

Acute inhalation toxicity

2,5-Furandione, polymer with : No data available

1-octadecene, sodium salt

Acute dermal toxicity

2,5-Furandione, polymer with : LD50: > 2,000 mg/kg

1-octadecene, sodium salt Species: rat

Method: OECD Test Guideline 402

Skin irritation

2,5-Furandione, polymer with : No skin irritation

1-octadecene, sodium salt

Eye irritation

2,5-Furandione, polymer with : No eye irritation

1-octadecene, sodium salt

Repeated dose toxicity

2,5-Furandione, polymer with : Species: rat

1-octadecene, sodium salt

Application Route: oral gavage

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Dose: 0, 100, 500, 1000 mg/kg

Exposure time: 4 wk Number of exposures: daily NOEL: > 1,000 mg/kg

Species: rat

Application Route: oral gavage

Dose: 0, 250 mg/kg
Exposure time: 13 wk
Number of exposures: daily
NOEL: > 250 mg/kg

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Further information : The product contains no substances which at their given

concentration, are considered to be hazardous to health.

SECTION 12: Ecological information

Toxicity to fish

2,5-Furandione, polymer with : LC50: > 1,000 mg/l 1-octadecene, sodium salt Exposure time: 96 h

Species: Scophthalmus maximus (Flatfish, Flounder)

semi-static test

Toxicity to algae

2,5-Furandione, polymer with : EL50: > 1,000 mg/l 1-octadecene, sodium salt Exposure time: 72 h

Species: Skeletonema costatum (Marine Algae)

This material is not expected to be harmful to aquatic

static test

Elimination information (persistence and degradability)

Biodegradability : This material is not expected to be readily biodegradable.

Additional ecological

organisms.

information

SECTION 13: Disposal considerations

The information in this MSDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to

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shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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

SECTION 15: Regulatory information

National legislation

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SARA 311/312 Hazards : No SARA Hazards

CERCLA Reportable

Quantity

: This material does not contain any components with a CERCLA

RQ.

SARA 302 Reportable

Quantity

: This material does not contain any components with a SARA

302 RQ.

SARA 302 Threshold

Planning Quantity

: SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 304 Reportable

Quantity

: This material does not contain any components with a section

304 EHS RQ.

SARA 313 Ingredients : SARA 313: This material does not contain any chemical

components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA

Title III, Section 313.

Clean Air Act

Ozone-Depletion

Potential

: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR

82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

US State Regulations

Pennsylvania Right To Know: No components are subject to the Pennsylvania Right to Know Act.

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New Jersey Right To Know: No components are subject to the New Jersey Right to Know Act.

California Prop. 65: This product does not contain any chemicals known to the State

Ingredients of California to cause cancer, birth, or any other reproductive

defects.

Notification status

Europe REACH : On the inventory, or in compliance with the inventory United States of America US.TSCA : On the inventory, or in compliance with the inventory Canada DSL : On the inventory, or in compliance with the inventory Australia AICS : On the inventory, or in compliance with the inventory

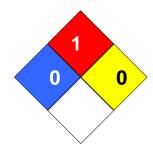
New Zealand NZIoC : Not in compliance with the inventory

Japan ENCS : On the inventory, or in compliance with the inventory Korea KECI : On the inventory, or in compliance with the inventory Philippines PICCS : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 0

Fire Hazard: 1 Reactivity Hazard: 0



Further information

Legacy MSDS Number : CL0001

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

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.

Key or legend to abbreviations and acronyms used in the safety data sheet					
ACGIH	American Conference of	LD50	Lethal Dose 50%		
	Government Industrial Hygienists				
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect		
	Substances		Level		
DSL	Canada, Domestic Substances	NFPA	National Fire Protection Agency		
	List				

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NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		

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