

Trade name: EOS StainlessSteel 254

Product no.: 9030-0007

Current version : 2.0.0, issued: 14.06.2022

Region: GB

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

1.1 Product identifier

Trade name

EOS StainlessSteel 254

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

Relevant identified uses of the substance or mixture

StainlessSteel powder for DMLS process in EOS M systems

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Electro Optical Systems Finland Oy
Lemminkäisenkatu 36
20520 Turku
FINLAND

Telephone no. +358 (0) 20 765 9144 / 9147

Fax no. +358 (0) 20 765 9141

Information provided by / telephone

+49 (0) 89 / 893 36 - 0

Advice on Safety Data Sheet

MSDSInfo@eos.info

1.4 Emergency telephone number

+49 (0) 89 / 893 36 - 0 (8 am - 5 pm)

+49 (0) 89 / 893 36 - 151 (Mo - Thu: 9 am - 12 pm & 1 - 6 pm; Fr: 1 - 4 pm) (CET)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Aquatic Chronic 3; H412

Carc. 2; H351

Skin Sens. 1; H317

STOT RE 1; H372

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms



GHS07



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

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nickel powder; [particle diameter < 1 mm]

Hazard statement(s)

H317 May cause an allergic skin reaction.
 H351 Suspected of causing cancer.
 H372 Causes damage to organs through prolonged or repeated exposure.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.
 P260 Do not breathe dust/fume/spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P501 Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards

PBT assessment

The study does not need to be conducted according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

vPvB assessment

The study does not need to be conducted according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	iron		
	7439-89-6 231-096-4 - 01-2119462838-24	-	50.00 - 52.00 wt%
2	chromium		
	7440-47-3 231-157-5 - 01-2119485652-31	-	>= 10.00 - < 25.00 wt%
3	nickel powder; [particle diameter < 1 mm]		
	7440-02-0 231-111-4 028-002-01-4 01-2119438727-29	Aquatic Chronic 3; H412 Carc. 2; H351 Skin Sens. 1; H317 STOT RE 1; H372**	>= 10.00 - < 25.00 wt%
4	manganese		
	7439-96-5 231-105-1 - 01-2119449803-34	-	< 2.50 wt%
5	copper		
	7440-50-8 231-159-6 - 01-2119480154-42	Aquatic Acute 1; H400 Aquatic Chronic 2; H411	< 2.50 wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(*, **, ***, ****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or if you feel unwell, seek medical advice immediately. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. If breathing has stopped, assist ventilation with a mechanical device. Take medical treatment.

After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

special powder against burning metal

Unsuitable extinguishing media

Water; Carbon dioxide; ABC powder; Foam

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Metal oxides

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Containers close to fire should be transferred to a safe place. Run-off water from fire fighting must not be discharged into drains or enter surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing. Keep away from ignition sources.

For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Small quantities of spilled material may be collected dry or wet. In large quantities: Take up mechanically. When aspirators are used, make sure that they are equipped with efficient dust filters (HEPA).

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

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7.1 Precautions for safe handling

Advice on safe handling

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Avoid contact with skin and eyes. Avoid dust formation.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Avoid contact with eyes and skin. Do not inhale dust. Remove soiled or soaked clothing immediately.

Advice on protection against fire and explosion

Dust can form an explosive mixture with air. Take precautionary measures against electrostatic loading (earthing necessary during loading operations). Keep away from sources of ignition - refrain from smoking.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect against mechanical damage.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

Substances to be avoided, see section 10.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	chromium	7440-47-3	231-157-5
List of approved workplace exposure limits (WELs) / EH40			
Chromium			
	WEL long-term (8-hr TWA reference period)	0.5	mg/m ³
2006/15/EC			
Chromium Metal, Inorganic Chromium (II) Compounds and Inorganic Chromium (III) Compounds (insoluble)			
	WEL long-term (8-hr TWA reference period)	2	mg/m ³
2	nickel powder; [particle diameter < 1 mm]	7440-02-0	231-111-4
List of approved workplace exposure limits (WELs) / EH40			
Nickel & its inorganic compounds (except nickel tetracarbonyl): water soluble nickel compounds (as Ni)			
	WEL long-term (8-hr TWA reference period)	0.1	mg/m ³
	Comments	Sk, Carc (nickel oxides and sulphides) Sen (nickel sulphate)	
List of approved workplace exposure limits (WELs) / EH40			
Nickel & water insoluble compounds nickel compounds (as Ni)			
	WEL long-term (8-hr TWA reference period)	0.5	mg/m ³
	Comments	Sk, Carc (nickel oxides and sulphides) Sen (nickel sulphate)	
3	manganese	7439-96-5	231-105-1
2017/164/EU			
Manganese and inorganic manganese compounds (as manganese)			
	WEL long-term (8-hr TWA reference period)	0,2 (Inhal)	mg/m ³
2017/164/EU			
Manganese and inorganic manganese compounds (as manganese)			
	WEL long-term (8-hr TWA reference period)	0,05 (Resp)	mg/m ³
List of approved workplace exposure limits (WELs) / EH40			
Manganese and its inorganic compounds (as Mn) Inhalable fraction			

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	WEL long-term (8-hr TWA reference period)	0.2	mg/m ³
List of approved workplace exposure limits (WELs) / EH40			
Manganese and its inorganic compounds (as Mn) Respirable fraction			
	WEL long-term (8-hr TWA reference period)	0.05	mg/m ³
4	copper	7440-50-8	231-159-6
List of approved workplace exposure limits (WELs) / EH40			
Copper			
fume			
	WEL long-term (8-hr TWA reference period)	0.2	mg/m ³
List of approved workplace exposure limits (WELs) / EH40			
Copper			
dusts and mists			
Cu			
	WEL short-term (15 min reference period)	2	mg/m ³
	WEL long-term (8-hr TWA reference period)	1	mg/m ³

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	nickel powder; [particle diameter < 1 mm]			7440-02-0 231-111-4	
	dermal	Long term (chronic)	local	0.035	mg/cm ²
	inhalative	Long term (chronic)	systemic	0.05	mg/m ³
	inhalative	Long term (chronic)	local	0.05	mg/m ³
	inhalative	Short term (acute)	local	11.9	mg/m ³
2	copper			7440-50-8 231-159-6	
	dermal	Short term (acute)	systemic	273	mg/kg/day
	dermal	Long term (chronic)	systemic	137	mg/kg/day
	inhalative	Long term (chronic)	local	1	mg/m ³
	inhalative	Short term (acute)	local	1	mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	nickel powder; [particle diameter < 1 mm]			7440-02-0 231-111-4	
	oral	Long term (chronic)	systemic	0.011	mg/kg/day
	oral	Short term (acute)	systemic	0.37	mg/kg/day
	dermal	Long term (chronic)	local	0.035	mg/cm ²
	inhalative	Long term (chronic)	systemic	60	ng/m ³
	inhalative	Long term (chronic)	local	60	ng/m ³
	inhalative	Short term (acute)	local	0.8	mg/m ³
2	copper			7440-50-8 231-159-6	
	oral	Long term (chronic)	systemic	0.041	mg/kg/day
	dermal	Short term (acute)	systemic	273	mg/kg/day
	dermal	Long term (chronic)	systemic	137	mg/kg/day
	inhalative	Short term (acute)	local	1	mg/m ³
	inhalative	Long term (chronic)	local	1	mg/m ³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	nickel powder; [particle diameter < 1 mm]		7440-02-0 231-111-4	
	water	fresh water	7.1	µg/L
	water	marine water	8.6	µg/L

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	water	fresh water sediment	109	mg/kg dry weight
	water	marine water sediment	109	mg/kg dry weight
	soil	-	29.9	mg/kg dry weight
	sewage treatment plant	-	0.33	mg/L
	secondary poisoning	-	0.12	mg/kg food
2	copper		7440-50-8 231-159-6	
	water	fresh water	7.8	µg/L
	water	marine water	5.2	µg/L
	water	fresh water sediment	87	mg/kg
	water	marine water sediment	676	mg/kg
	soil	-	65	mg/kg
	sewage treatment plant	-	230	µg/L

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. This should be achieved by the use of local exhaust ventilation and good general extraction.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified. Respirator with particulate filter (filter cat. P 3)

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	nitrile rubber		
Material thickness	>=	0.35	mm
Breakthrough time	>	480	min

Other

Wear fully closed, flame retardant clothing. Closed ESD safety footwear (ESD according to EN 61340-4-3 or equivalent).

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation
solid
Form/Colour
Powder
grey
Odour
odourless
pH value
No data available

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Boiling point / boiling range

No data available

Melting point/freezing point

Value	1440	-	1500	°C
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Decomposition temperature

No data available

Flash point

no data available

Ignition temperature

No data available

Explosive properties

Dust may form explosive mixture in air.

Flammability

No data available

Lower explosion limit

Not applicable

Upper explosion limit

Not applicable

Vapour pressure

No data available

Relative vapour density

No data available

Relative density

No data available

Density

Value	3.6	-	4.3	g/cm ³
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Solubility in water

Comments	insoluble
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Solubility

No data available

Partition coefficient n-octanol/water (log value)

No data available

Kinematic viscosity

No data available

Particle characteristics

Particle size distribution: 17 -56 µm

9.2 Other information**Other information**

No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

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Possible hydrogen formation upon contact with acids.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Spontaneously inflammable when finely dispersed. Hydrogen gas is released upon contact with mineral acids and may form explosive compounds with air.

10.5 Incompatible materials

Acids; Oxidizing agents

10.6 Hazardous decomposition products

In case of fire: see section 5.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	nickel powder; [particle diameter < 1 mm]	7440-02-0	231-111-4
LD50		> 9000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity			
No data available			

Acute inhalational toxicity			
No data available			

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	nickel powder; [particle diameter < 1 mm]	7440-02-0	231-111-4
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	nickel powder; [particle diameter < 1 mm]	7440-02-0	231-111-4
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	nickel powder; [particle diameter < 1 mm]	7440-02-0	231-111-4
Route of exposure	Skin		
Species	Human		
Source	Manufacturer		
Evaluation	sensitizing		
Evaluation/classification	Based on available data, the classification criteria are met.		

Germ cell mutagenicity			
No data available			

Reproduction toxicity			
No data available			

Carcinogenicity			
No data available			

STOT - single exposure			

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No data available

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	nickel powder; [particle diameter < 1 mm]	7440-02-0	231-111-4
Route of exposure		oral	
NOAEL		2.2	mg/kg
Species	rat		
Method	OECD 451		
Source	Manufacturer		
Evaluation/classification	Based on available data, the classification criteria are met.		

Aspiration hazard
No data available

Symptoms related to the physical, chemical and toxicological characteristics
Eye contact may cause mechanical irritation through dust particles. Skin contact may cause mechanical irritation through dust particles.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Inhalation of dusts may irritate the respiratory tract. Danger of acute health hazards by longer exposure. Possibility of sensitisation through skin contact.

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	copper	7440-50-8	231-159-6
LC50		0.035	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	ISO TC 147/SC 5/WG3 (secretariat 6)		
Source	ECHA / Read across		

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	nickel powder; [particle diameter < 1 mm]	7440-02-0	231-111-4
NOEC		21.7	mg/l
Duration of exposure		28	day(s)
Species	Cyprinodon variegatus		
Method	ASTM 2004, APHA 1998		
Source	ECHA		
2	copper	7440-50-8	231-159-6
NOEC		0.023	mg/l
Duration of exposure		7	day(s)
Species	Pimephales promelas		
Method	OECD 204		
Source	ECHA		

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	copper	7440-50-8	231-159-6
EC50		0.034	mg/l
Duration of exposure		48	h

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Species	Daphnia magna
Method	OECD 202
Source	ECHA

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	nickel powder; [particle diameter < 1 mm]	7440-02-0	231-111-4
NOEC		152.6	µg/l
Duration of exposure		48	h
Species	Dendroaster excentricus		
Method	ASTM E1563-95		
Source	ECHA		
2	copper	7440-50-8	231-159-6
NOEC		0.032	mg/l
Duration of exposure		7	day(s)
Species	Daphnia magna		
Method	OECD 211		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	nickel powder; [particle diameter < 1 mm]	7440-02-0	231-111-4
EC50		>	µg/l
Duration of exposure		81.5	h
Species	Pseudokirchneriella subcapitata	72	
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity	
No data available	

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	The study does not need to be conducted according to Annex XIII of Regulation (EC) 1907/2006 (REACH).
vPvB assessment	The study does not need to be conducted according to Annex XIII of Regulation (EC) 1907/2006 (REACH).

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information	
The product should not be allowed to enter drains or water courses.	
Ecological data are not available.	

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

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Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	chromium	7440-47-3	231-157-5	75
2	copper	7440-50-8	231-159-6	75
3	nickel powder; [particle diameter < 1 mm]	7440-02-0	231-111-4	27, 75
4	sulfur	7704-34-9	231-722-6	75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

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SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H400

Very toxic to aquatic life.

H411

Toxic to aquatic life with long lasting effects.