

Safety data sheet
complying with Regulation 1907/2006/EC (REACH Regulation),
EU 2020/878 and Regulation No 1272/2008/EC (CLP)

Printing date 23.05.2023

Version number 3 (replaces version 2)

Revision: 23.05.2023

*** SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** ERGON 50**Description / Product Code:** FORMULA ID: 25**UFI:** AD10-C0CS-W003-EW0X**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the mixture: Lubricant**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Company responsible for the placing on the market:

LPC S.A.

Megaridos Avenue 124

Aspropyrgos - Attica , 193 00

Tel.: 210 - 809 3900

Fax: 210 - 809 3999

e-mail: technical@cyclon.gr

1.4 Emergency telephone number:

European Emergency Tel.: 112

*** SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation EC No 1272/2008 CLP:**

GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements**Labelling according to Regulation EC No 1272/2008 CLP:**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms:

GHS07

Signal word: Warning**Hazard statements:**

H319 Causes serious eye irritation.

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H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P273 Avoid release to the environment.

P280 Wear eye protection / face protection

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.

vPvB: Not applicable.

Determination of endocrine-disrupting properties

CAS: 121158-58-5 | phenol, dodecyl-, branched

List I

 * **SECTION 3: Composition/information on ingredients**
3.2 Mixtures
Description: Mixture: consisting of the following components.

Ingredients according Regulation (EU) 2020/878:

CAS: 4259-15-8 EINECS: 224-235-5 Reg.nr.: 01-2119493635-27-XXXX	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) Eye Dam. 1, H318; Aquatic Chronic 2, H411	≥1-<2.5%
CAS: 121158-58-5 EC number: 310-154-3 Index number: 604-092-00-9 Reg.nr.: 01-2119513207-49-XXXX	phenol, dodecyl-, branched Repr. 1B, H360F; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10)	≥0.0025-<0.025%

Additional information:

The base oils of the product contain <3% DMSO extract (IP 346).

In accordance with Regulation (EC) No 1272/2008, Note L, reference IP 346/92: 'Dimethyl sulfoxide (DMSO) extraction method', it was determined that the base oils used in this preparation are not carcinogenic.

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures
4.1 Description of first aid measures
General information:

Take affected persons out into the fresh air.

Seek immediate medical advice.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

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After skin contact:

Wash the skin immediately with soap and water.

In case of discomfort, consult a doctor.

After eye contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

Check for and remove any contact lenses.

Continue to rinse for at least 10 minutes.

Get medical attention if irritation occurs.

Avoid strong water jet-risk of cornea damage, consult a doctor.

After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Consult the doctor immediately and show the label or this Safety Data Sheet.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

There are no known or expected symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

No special measures are required.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**CO₂, powder or water spray. Fight larger fires with water spray.

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixtureIn a fire it is possible to release nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂) & sulphur dioxide (SO₂).**5.3 Advice for firefighters****Protective equipment:**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures:**

Wear protective equipment. Keep unprotected persons away.

Avoid contact with skin and eyes.

Avoid inhalation of vapors.

Ensure adequate ventilation.

For information on protective measures, see sections 7 and 8.

6.1.1 For non-emergency personnel Caution for slippery surfaces.**6.1.2 For emergency responders**

First-aid responders must wear protective clothing, gloves, goggles and respiratory device with filter type A.

6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).

Dispose contaminated material as waste according to section 13.

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6.4 Reference to other sections:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Avoid contact with eyes, skin and clothing.
Do not eat, drink or smoke when using this product.
Wash contaminated clothes before reusing them.
Wash your hands and face after using the product.
Use adequate personal protective equipment as required. For more information regarding protective equipment see section 8.

Information about fire - and explosion protection:

Keep away from heat, sparks, open flames and hot surfaces.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Store in tightly closed containers, in a cool and dry place with good ventilation.

Requirements to be met by storerooms and receptacles:

Store in a cool location.
Prevent any seepage into the ground.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s) No further relevant information available.

*** SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs

(CAS: 4259-15-8) Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)

Workers:

Inhalation - Long-term systemic exposure: 6.6 mg/m³
Dermal - Long-term systemic exposure: 9.6 mg/kg bw/d

General population:

Inhalation - Long-term systemic exposure: 1.67 mg/m³
Dermal - Long-term systemic exposure: 4,8 mg/kg bw/d
Oral - Long-term systemic exposure: 0,19 mg/kg bw/d

(CAS: 121158-58-5) phenol, dodecyl, branched

Workers:

Inhalation - Long-term systemic effect: 1.762 mg/m³
Inhalation - Short-term local effect: 44.18 mg/m³
Dermal - Long-term systemic effect: 0.25 mg/kg bw/d
Dermal - Short-term local effect: 166 mg/kg bw/d

Consumers:

Inhalation - Long-term systemic effect: 0.79 mg/m³
Inhalation - Short-term local effect: 13.26 mg/m³
Dermal - Long-term systemic effect: 0.075 mg/kg bw/d
Dermal - Short-term local effect: 50 mg/kg bw/d

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Oral - Long-term systemic effect: 0.075 mg/kg bw/d

Oral - Short-term local effect: 1.26 mg/kg bw/d

PNECs

(CAS: 4259-15-8) Zinc bis[O,O-bis(2-ethylhexyl)] bis(zinc dithiophosphate)

Fresh water: 4 µg/L

Marine water: 4,6 µg/L

STP: 3,8 mg/L

Fresh water sediment: 0,322 mg/kg of sediment dw

Marine water sediment: 0,032 mg/kg sediment dw

Soil: 0,062 mg/kg soil dw

Secondary poisoning: 8,33 mg/kg food

(CAS: 121158-58-5) phenol, dodecyl, branched

Fresh water: 0.074 µg/L

Marine water: 0.007 µg/L

STP: 100 µg/L

Freshwater sediment: 0.226 mg/kg sediment dw

Marine water sediment: 0.027 mg/kg sediment dw

Soil: 0.118 mg/kg soil dw

Secondary poisoning: 4 mg/kg food

8.2 Exposure controls**8.2.1. Appropriate engineering controls** Provide adequate ventilation.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Avoid contact with skin and eyes.

Do not eat, drink or smoke while using the product.

Remove contaminated clothes and wash before reusing them.

Do not breathe vapours or mists.

Wash your hands before breaks and after use.

Keep away from foodstuffs, beverages and feed.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection

Protective gloves resistant to chemicals (standard EN 374-1)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye/face protection



Tightly sealed goggles (EN 166).

Body protection:



Protective work clothing

*** SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

General Information

Physical state	Liquid
Colour:	Chestnut
Odour:	Characteristic odour of lubricating oil.
Odour threshold:	Not determined
Melting point/freezing point:	Not determined
Boiling point or initial boiling point and boiling range	Not determined
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	Not determined
Upper:	Not determined
Flash point:	>200 °C
Auto-ignition temperature:	Not Flammable
Decomposition temperature:	Not specified
pH	Not determined
Viscosity:	
Kinematic viscosity at 40 °C	>30 mm ² /s
Dynamic:	Not determined
Solubility	
water:	Not miscible
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure:	Not determined
Density and/or relative density	
Density:	Not determined
Relative density	Not determined
Vapour density	Not determined

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9.2 Other information

Appearance:

Form: Liquid

Important information on protection of health and environment, and on safety.

Ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Cloud point / clarification point:

Oxidising properties Not oxidising

Evaporation rate Not determined

Information with regard to physical hazard classes

Explosives Void

Flammable gases Void

Aerosols Void

Oxidising gases Void

Gases under pressure Void

Flammable liquids Void

Flammable solids Void

Self-reactive substances and mixtures Void

Pyrophoric liquids Void

Pyrophoric solids Void

Self-heating substances and mixtures Void

Substances and mixtures, which emit flammable gases in contact with water Void

Oxidising liquids Void

Oxidising solids Void

Organic peroxides Void

Corrosive to metals Void

Desensitised explosives Void

SECTION 10: Stability and reactivity

10.1 Reactivity Stable under normal conditions

10.2 Chemical stability Material is stable under normal conditions.

Thermal decomposition / conditions to be avoided Stable at environment temperature.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid

Avoid heat, sparks, naked flame or other sources of ignition.

Do not press, cut, weld, drill, rub, or expose containers to heat or ignition sources.

Oxidising agents

10.5 Incompatible materials No further relevant information available.

10.6 Hazardous decomposition products No dangerous decomposition products known.

* **SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

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LD/LC50 values relevant for classification:

(CAS: 121158-58-5) phenol, dodecyl, branched.

LD50 - Mouth - Rat: 2100 mg/kg bw , Method:OECD 401.

LD50 - Skin - Rat: 15000 mg/kg bw , Method:OECD 402.

NOAEL (Mouth, Rat, 90 days):15 mg/kg bw/day, Method: (OECD 416).

NOAEL (Subacute, Oral, Animal/male, 28 days): 60 mg/kg bw Method:(OECD 407).

(CAS: 4259-15-8) Zinc bis[O,O-bis(2-ethylhexyl)] bis(zinc dithiophosphate)

Acute toxicity, oral: LD50 (rat): >3100 mg/kg

Method: OECD Test Guideline 401

Acute toxicity, dermal: LD50 (rabbit): >5000 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

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

Reproductive toxicity

The product is classified as toxic to Reproduction Category 1B.

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

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

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

Additional toxicological information:

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

11.2 Information on other hazards

Endocrine disrupting properties

CAS: 121158-58-5 | phenol, dodecyl-, branched

List I

* **SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity:

(CAS: 121158-58-5) phenol, dodecyl, branched

Toxicity to fish

LC50 (Fathead Minnow, 4 d): 40 mg/l

Toxicity to aquatic invertebrates

EC50 (Water flea (Daphnia magna), 2 d): 0.037 mg/l

EC50 (Shrimp (Mysidopsis Bahia), 4 d): >0.58 mg/l

EC50 (Water flea (Daphnia magna), 21 d): 0.0079 mg/l

NOEC (Water flea (Daphnia magna), 21 d): 0.0037 mg/l

Toxicity to aquatic plants

EC50 (Green algae (Scenedesmus quadricauda), 72 h): 0.36 mg/l

Toxicity to micro-organisms

EC50 (Sludge, 0.1 d): >1,000 mg/l

(CAS: 4259-15-8) Zinc bis[O,O-bis(2-ethylhexyl)] bis(zinc dithiophosphate)

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)): 4,4 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other marine invertebrates

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EC50 (Daphnia magna (Water flea)): 75 mg/l
 Exposure time: 48 h
 Method: OECD Test Guideline 202
 Toxicity to algae
 EC50 (Desmodesmus subspicatus (green algae)): > 240 mg/l
 Exposure time: 72 h
 Toxicity to micro-organisms
 EC50 (Pseudomonas putida): 380 mg/l
 Exposure time: 16 h
 Method: OECD Test Guideline 209
 Chronic toxicity to daphnia and other marine invertebrates
 NOEC: 0,4 mg/l
 Exposure time: 21 d
 Species: Daphnia magna (Water flea)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Remark: Toxic for fish

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Also poisonous for fish and plankton in water bodies.

The product contains materials that are harmful to the environment.

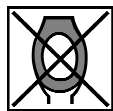
* **SECTION 13: Disposal considerations**

13.1 Waste treatment methods

Recommendation



Dispose according to National Regulations.



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact manufacturer for recycling information.

Waste disposal key: 13 02 05* non-chlorinated engine, gearbox and mineral-based lubricating oils

European waste catalogue

HP10	Toxic for reproduction
HP14	Ecotoxic

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Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number or ID number	Unenforceable. Not classified as dangerous for transport.
ADR, IMDG, IATA	Void
14.2 UN proper shipping name	
ADR, IMDG, IATA	Void
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	Void
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

Note L applies. The DMSO content is less than 3% (IP 346).

REACH Regulation 1907/2006/EC

Regulation (EU) 2020/878

CLP Regulation 1272/2008/EC

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

Council Directive 94/33/EC on the protection of young people at work, as amended.

Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding, as amended

Directive 2012/18/EU

Named dangerous substances - ANNEX I

None of the ingredients is listed.

The substance is not included in Annex I.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3,30

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

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REGULATION (EU) 2019/1148
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations:
Other regulations, limitations and prohibitive regulations
Substances of very high concern (SVHC) according to REACH, Article 57

CAS: 121158-58-5 | phenol, dodecyl-, branched

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H360F May damage fertility.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Training hints

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

Classification according to Regulation (EC) No 1272/2008

Serious eye damage/irritation

 Hazardous to the aquatic environment - long-term
 (chronic) aquatic hazard

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Department issuing SDS:

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Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Repr. 1B: Reproductive toxicity – Category 1B

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

*** Data compared to the previous version altered.**