

The safety data sheet complies with Commission Regulation (EU) 878/2020 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

MEGATUK LD2

Creation date 22nd October 2003
Revision date 29th September 2022

Version

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

L.1. Product identifier MEGATUK LD2
Substance / mixture mixture

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

Mixture's intended use

Plastic lubricant

The use descriptors

IS Use at industrial sites

PW Widespread use by professional workers

Mixture uses advised against

The product should not be used in ways other then those referred in Section 1.

1.3. Details of the supplier of the safety data sheet

Supplier

Name or trade name NOVATO

Address Uralská 770/6, Praha, 160 00

Czech Republic

Identification number (CRN)62910370VAT Reg NoCZ62910370Phone+420 233 339 688E-mailpetr.johanides@novato.cz

Web address www.novato.cz

Competent person responsible for the safety data sheet

Name ABITEC
E-mail info@abitec.cz

1.4. Emergency telephone number

European emergency number: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.

Most serious adverse physico-chemical effects

Incomplete thermal decomposition at high temperatures may result in the release of dangerous gases.

Most serious adverse effects on human health and the environment

Contains a sensitizing substance in an amount below the limit for classification, may cause an allergic reaction. In rare cases, it may cause mild eye irritation if accidentally rubbed into the eyes. Difficulty breathing, headache, nausea may also occur. Ensure against confusion with food. The mixture is not classified as dangerous for the environment. Avoid release to sewers, soil, and ground or surface water. Follow the instructions for use to avoid risks to people and the environment.

2.2. Label elements

none

Supplemental information

EUH208 Contains zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate). May produce an

allergic reaction.

2.3. Other hazards

Neither the mixture nor its components meet the criteria for persistent, bioaccumulative and toxic or highly persistent and highly bioaccumulative substances in accordance with Annex XIII, nor have they been included in the list drawn up in accordance with Article 59, paragraph 1, due to the content of endocrine disruptors, nor has it been determined as a substance with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.



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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Mixture

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
CAS: 4259-15-8 EC: 224-235-5	zinc bis[O,O-bis(2-ethylhexyl)] bis (dithiophosphate)	·	Eye Dam. 1, H318 Aquatic Chronic 2, H411 Specific concentration limit: Eye Dam. 1, H318: $C \ge 50 \%$ Aquatic Chronic 2, H411: $C \ge 25 \%$	

Full text of all classifications and hazard statements is given in the section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

If you feel any health problems or if in doubt, seek medical advice and provide information from this Safety Data Sheet. In the case of life-threatening conditions, resuscitate. Keep the unconscious person in a stabilized position and do not give anything by mouth. Avoid cool. Do not induce vomiting. For spontaneous vomiting, avoid inhalation of vomit.

If inhaled

There is no risk of inhalation during normal use. Interrupt exposure, breathe fresh air. Seek medical attention if respiratory tract irritation occurs.

If on skin

Wipe off the mixture, wash with lukewarm water, soap and treat with regenerating cream. If clothing is contaminated, remove clothing.

If in eyes

If the affected person has contact lenses, remove them. Flush eyes wide open from the inner corner of the eye to the outside with plenty of clean, lukewarm water, especially under the eyelids. Rinse for 10 - 15 minutes, seek medical attention.

If swallowed

Leave the affected person alone. Do not induce vomiting, rinse mouth with water (if conscious), drink a glass of water. Seek medical attention and present this safety data sheet. Danger of vomiting!

4.2. Most important symptoms and effects, both acute and delayed

If inhaled

not available

If on skin

Repeated or prolonged contact with skin may cause skin dryness or cracking.

If in eyes

In case of accidental contact with the eyes, it may slightly irritate the eyes (tearing, burning, itching).

If swallowed

Ingestion may cause gastrointestinal irritation, abdominal pain and nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate medical attention is not required during normal use of the mixture.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The mixture is not flammable, adapt extinguishing media to the surrounding fire (foam, CO2, powder).

Unsuitable extinguishing media

Not defined.



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5.2. Special hazards arising from the substance or mixture

Thermal decomposition at high temperatures or in case of fire can produce dangerous decomposition products (COx, NOx, oxides of sulfur and phosphorus, aliphatic and aromatic pyrolysis products). Do not inhale thermal decomposition products.

5.3. Advice for firefighters

Adapt protective equipment to the nature of the fire (self-contained breathing apparatus, emergency suit).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Prevent unauthorized entry, escape area. Avoid contact with skin and eyes - use personal protective equipment. The location of the leak can be slippery. Pay attention to personal safety.

6.2. Environmental precautions

Provide a spill area, prevent leakage into drains, soil, surface and ground water. In case of a large liquid leak, monitor the NPK concentrations resp. TLV and inform the relevant public authorities and the flow or sewerage manager.

6.3. Methods and material for containment and cleaning up

Collect the paste mechanically. In the event of a minor leak, wipe the mixture with a cloth, place in a closable waste container, label and dispose of in accordance with local waste disposal regulations.

6.4. Reference to other sections

See the Section 7, 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Follow the recommendations in the operating instructions. Ensure direct contact of the mixture with eyes and skin, use personal protective equipment according to section 8. Secure against confusion with food. The location of the leak can be slippery. Pay attention to personal safety. Observe valid legal regulations on safety and health protection. Follow the principles of hygiene when working with chemicals, do not eat, drink or smoke while working. Wash hands with warm soapy water before breaks, meals and after work. Store in the original container.

7.2. Conditions for safe storage, including any incompatibilities

Store in original containers in dry, well-ventilated areas. Store away from heat, protect from direct sunlight, do not smoke. Keep away from food, drink and animal feeding stuffs. Follow the instructions on the label.

Content	Packaging type	Material of package
400 ml	tube	HDPE

Storage class

11 - Other combustible solids

Storage temperature min 0 °C, max 40 °C

7.3. Specific end use(s)

The mixture can be used in the temperature range -20 ° C to +150 ° C, for a short time up to +200 ° C.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The mixture does not contain any constituents of national exposure limits specified in Annex 2, Government Decree 361/2007 Coll., As amended or European Union for Work Environment.

DNEL

zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophosphate)						
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source	
Workers	Inhalation	6.6 mg/m ³	Chronic effects systemic			
Workers	Dermal	9.6 mg/kg/24h	Chronic effects systemic			
Consumers	Inhalation	1.67 mg/m ³	Chronic effects systemic			



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zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophosphate)						
Workers / consumers	Route of exposure	Value	Effect	Value determination	Source	
Consumers	Dermal	4.8 mg/kg/24h	Chronic effects systemic			
Consumers	Oral	0.19 mg/kg/24h	Chronic effects local			

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PNEC

zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophosphate)					
Route of exposure	Value	Value determination	Source		
Microorganisms in sewage treatment	3.8 mg/l				
Water (regular leak)	4 μg/l				
Marine water	4.6 μg/l				
Freshwater sediment	0.0701 mg/kg				
Sea sediments	0.00701 mg/kg				

8.2. Exposure controls

Ensure sufficient ventilation or extraction of the work area. In case of exceeding the NPK-P, use suitable respiratory protection. Avoid contact with eyes and skin. Observe hygienic measures when working with chemicals. Do not eat, drink and smoke during work. Wash hands with lukewarm soap and water before breaks, meals and after work. Adapt personal protective equipment to the nature of the work.

Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

Skin protection

Protective work clothing; remove contaminated clothing, wash before further use. Protective gloves (material e.g. nitrile butadiene, 0.12 mm; penetration time 4h.). When choosing, follow the manufacturer's recommendations, the material must be impermeable and resistant to the components of the mixture. Test in a specific workplace before first use. Replace damaged gloves. Unsuitable material: natural rubber, natural latex, polychlorprene, chlorprene rubber.

Respiratory protection

It is not necessary if the recommended use is followed. In case of insufficient ventilation or accident, use a mask with an organic vapor and aerosol filter type A.

Thermal hazard

Not available.

Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state solid
Colour Beige
Odour characteristic
Melting point/freezing point >230 °C
Boiling point or initial boiling point and boiling range >250 °C

Flammability The mixture is flammable but not easily ignited

Lower and upper explosion limit data not available

Flash point >200 °C

Auto-ignition temperature data not available Decomposition temperature data not available



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pH data not available
Kinematic viscosity data not available
Solubility in water data not available
Partition coefficient n-octanol/water (log value) data not available
Vapour pressure data not available
Density and/or relative density
Density 0.95 g/cm³ at 20 °C

Relative vapour density

Particle characteristics

0.95 g/cm³ at 20 % data not available data not available

9.2. Other information

VOC content: < 3 %

Explosive properties: The mixture does not show explosive properties. Oxidizing properties: The mixture is not classified as oxidizing.

SECTION 10: Stability and reactivity

10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

10.2. Chemical stability

The mixture is stable under normal environmental conditions, storage and handling.

10.3. Possibility of hazardous reactions

The mixture does not show dangerous reactions if the instructions for use are followed.

10.4. Conditions to avoid

Contact with temperatures outside the recommended operating temperature range.

10.5. Incompatible materials

Strong oxidizing agents, acids.

10.6. Hazardous decomposition products

Under normal conditions, the mixture does not decompose. Thermal decomposition at high temperatures or in case of fire may produce dangerous decomposition products (COx, NOx, aldehydes, ketones, sulfur oxides, phosphorus oxides, pyrolysis products, toxic, containing fluorine). Do not inhale thermal decomposition products.

SECTION 11: Toxicological information

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

The mixture is not classified as dangerous according to Regulation (EC) No. 1272/2008, as amended.

Acute toxicity

Based on available data the classification criteria are not met.

zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophosphate)						
Route of exposure	Parameter	Value	Exposure time	Species	Sex	
Oral	LD50	3100 mg/kg		Rat		
Oral	NOAEL	125 mg/kg	28 days	Rat		
Dermal	LD ₅₀	>5000 mg/kg		Rabbit		

Skin corrosion/irritation

Based on available data the classification criteria are not met.

Serious eye damage/irritation

Based on available data the classification criteria are not met.

Respiratory or skin sensitisation

The mixture contains sensitizing components in an amount below the limit for the classification of the mixture. May cause an allergic reaction.



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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

Based on available data the classification criteria are not met.

Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2. Information on other hazards

It does not contain substances causing disruption of the endocrine system. Contains a sensitizing substance in an amount below the limit for classification, may cause an allergic reaction. In rare cases, it may cause mild eye irritation if accidentally rubbed into the eyes. Difficulty breathing, headache, nausea may also occur.

SECTION 12: Ecological information

12.1. Toxicity

The ecotoxic effects of the mixture were not assessed. Observe the usual environmental precautions.

Acute toxicity

zinc bis[0,0-bis(2-ethylhexyl)] bis(dithiophosphate)					
Parameter	Value	Exposure time	Species	Environment	
EC50	75 mg/l	48 hours	Invertebrates (Daphnia magna)		

12.2. Persistence and degradability

The mixture is difficult to biodegrade. Main component of the mixture: < 5%/27 days.

12.3. Bioaccumulative potential

Not determined, bioaccumulation is unlikely.

12.4. Mobility in soil

It's not mobile.

12.5. Results of PBT and vPvB assessment

Mixture does not meet the criteria for classification as PBT and vPvB.

12.6. Endocrine disrupting properties

Substances with these properties in accordance with the criteria set out in Commission Regulation (EU) 2017/2100 or (EU) 2018/605 are not included.

12.7. Other adverse effects

Do not allow to enter soil, ground or surface water or drains. Observe the usual environmental precautions.

SECTION 13: Disposal considerations



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13.1. Waste treatment methods

Dispose of mixture and packaging residues in accordance with local waste disposal regulations. Hand over to an authorized person for disposal. Do not dispose of with household waste. Dispose of contaminated packaging as hazardous waste.

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Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

Waste type code

12 01 12* spent waxes and fats

Packaging waste type code

15 01 02 plastic packaging

15 01 10* packaging containing residues of or contaminated by hazardous substances

(*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

SECTION 14: Transport information

14.1. UN number or ID number

not subject to transport regulations

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

Transport in packages that match the properties of the mixture. Observe the prescribed marking for cargo.

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

Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Commission Delegated Regulation (EU) 2021/849 of 11 March 2021 amending, for the purposes of adapting to technical and scientific progress, Part 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labeling and packaging of substances and mixtures. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as ammended.Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals.

15.2. Chemical safety assessment

No chemical hazard assessment was performed for this mixture.

More information

This information only indicates the basic regulations listed in this Safety Data Sheet. Please note the possible existence of additional regulations supplementing these Regulations. We refer to all applicable national, international and local regulations and regulations.

SECTION 16: Other information



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A list of standard risk phrases used in the safety data sheet

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects. A list of additional standard phrases used in the safety data sheet

EUH208 Contains zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate). May produce an

allergic reaction.

Other important information about human health protection

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the supplier can not control the specific conditions of use of the mixture, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by

road

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substance and mixtures

EC Identification code for each substance listed in EINECS

EC50 Concentration of a substance when it is affected 50% of the population EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan EU European Union

EuPCS European Product Categorisation System IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying

Dangerous Chemicals

ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
IMO International Maritime Organization

INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry

LD50 Lethal dose of a substance in which it can be expected death of 50% of the

population

log KowOctanol-water partition coefficientNOAELNo observed adverse effect levelNPKMaximum admissible concentrationOELOccupational Exposure Limits

PBT Persistent, Bioaccumulative and Toxic

PEL Permissible Exposure Limit

ppm Parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from the UN

Model Regulations

UVCB Substances of unknown or variable composition, complex reaction products or

biological materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

Aquatic Chronic Hazardous to the aquatic environment (chronic)

Eye Dam. Serious eye damage

Training guidelines

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According to § 103 and § 104 of Act No. 262/2006 Coll., The Labor Code, as amended. Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

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Recommended restrictions of use

The mixture should not be used for any purpose other than that for which it is intended (see point 1.2). Because the specific conditions of use of the substance are beyond the control of the supplier, it is the responsibility of the user to adapt the prescribed warnings to local laws and regulations. Safety information describes the product in terms of safety and can not be considered as technical product information.

Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

The changes (which information has been added, deleted or modified)

Adaptation of BL updated Annex II of the REACH Regulation as amended by Commission Regulation (EU) 2020/878.

Statement

The safety data sheet contains the data needed to ensure safety and health at work and environmental protection. These data correspond to the current state of knowledge and experience and are in accordance with applicable legal regulations. They can not be considered as a guarantee of the suitability and usability of the product for a specific application. The user is responsible for the treatment under existing laws and regulations.

