

Safety data sheet

according to 1907/2006/EC, 1272/2008/EC & 2020/878/EC

Printing date 10.09.2024

Version number 1

Revision: 22.04.2025

Trade name: MULTI EPM 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Trade name: MULTI EPM 2****1.2. Relevant identified uses of the substance or mixture and uses advised against****Recommended use** Lubricating grease.**Uses advised against** No information available.**1.3. Details of the supplier of the safety data sheet**

Manufacturer

Oryx Energies

12 rue Michel Servet

CH-1211 GENÈVE 12

SUISSE

Email: lubes@oryxenergies.com**1.4. Emergency telephone number**

France (INRS 24h/24) - Tel : +33 (0)1 45 42 59 59

Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel: 112

Belgium - Brüssel: +32 070/245 245

UK : Call NHS 999 in a medical emergency. If you urgently need medical help or advice but it's not a lifethreatening situation, call 111 (24/7). The NHS 111 number is currently only available in certain areas. If you're outside of these areas, you should call NHS Direct on 0845 4647

Swiss Toxicological Information Centre (Zürich) : +41 44 251 51 51 / www.toxi.ch.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2. Label elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

EU Specific Hazard Statements

EUH210 - Safety data sheet available on request

2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB. This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients**3.1 Substances** Not applicable.**3.2 Mixtures**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Chemical name Phosphorodithioc acid, mixed O,O-bis(2-ethylhexyl and iso-butyl and iso-propyl) esters, zinc salts**Weight-%** <2.5**REACH registration number** 01-21195212 01-61**CAS No** 85940-28-9**EC No (EU Index No)** 288-917-4**Classification according to Regulation (EC) No. 1272/2008 [CLP]** Skin Irrit. 2 (H315), Eye Irrit. 2 (H319), Aquatic Chronic 2 (H411).**Specific concentration limit (SCL) -****M-Factor -****M-Factor (long-term) -**

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Ingredient comments This product is a lithium grease based on mineral oil with additives. The mineral oils in the product contain <3% DMSO extract (IP 346).

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Move to fresh air in case of accidental inhalation of vapours.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a doctor.

Skin contact In the case of skin irritation or allergic reactions see a doctor. Wash skin with soap and water. **Ingestion** Rinse mouth. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.

Self-protection of the first aider No information available.

4.2. Most important symptoms and effects, both acute and delayed **Symptoms** No information available.

4.3. Indication of any immediate medical attention and special treatment needed **Note to doctors** Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media CO₂, dry chemical, dry sand, alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Fire may produce irritating, corrosive and/or toxic gases.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Extremely slippery when spilled.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Avoid contact with eyes and prolonged or repeated contact with skin. Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Store at temperatures not exceeding 45 °C/ 113 °F.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposures controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls Eyewash stations. Ventilation systems.

Personal protective equipment



Hand protection Nitrile rubber. Wear suitable gloves tested to EN 374. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields. No special protective equipment required.

Skin and body protection No special protective equipment required.

Respiratory protection In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. None under normal use conditions.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. **Environmental exposure controls** Prevent product from entering drains.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state

Liquid

· Form:

Paste/Gel

· Colour:

Ambre

· Odour:

Characteristic

· Odour threshold:

Not determined.

· Melting point/freezing point:

-20 °C

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· Boiling point or initial boiling point and boiling range	130°C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	>190 °C
· Auto-ignition temperature:	Not applicable.
· Decomposition temperature:	Not determined.
· pH	Mixture is non-polar/aprotic.
· Viscosity:	
· Kinematic viscosity at 40 °C	200 cSt
· Dynamic at -20 °C:	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 at 15 °C:	0.880 g/cm ³
· Relative density :	Not determined.
· Vapour density :	Not determined.
· 9.2 Other information :	
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not self igniting.
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· COV (CH) :	0.00 %
· Change in condition	
· Evaporation rate :	Not determined.
· Information with regard to physical hazard classes	
· Explosives	None
· Flammable gases	None
· Aerosols	None
· Oxidising gases	None
· Gases under pressure	None
· Flammable liquids	None
· Flammable solids	None
· Self-reactive substances and mixtures	None
· Pyrophoric liquids	None
· Pyrophoric solids	None
· Self-heating substances and mixtures	None
· Substances and mixtures, which emit flammable gases in contact with water	None
· Oxidising liquids	None
· Oxidising solids	None
· Organic peroxides	None
· Corrosive to metals	None
· Desensitised explosives	None

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SECTION 10: Stability and reactivity**10.1. Reactivity****Reactivity** Stable.**10.2. Chemical stability****Stability** Stable under normal conditions.**Explosion data****Sensitivity to mechanical impact** None.**Sensitivity to static discharge** None.**10.3. Possibility of hazardous reactions****Possibility of hazardous reactions** None under normal processing.**10.4. Conditions to avoid****Conditions to avoid** Excessive heat.**10.5. Incompatible materials****Incompatible materials** Strong oxidising agents.**10.6. Hazardous decomposition products****Hazardous decomposition products** None under normal use conditions.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Product Information** Product does not present an acute toxicity hazard based on known or supplied information.**Information on likely routes of exposure****Inhalation** Not an expected route of exposure. Specific test data for the substance or mixture is not available. **Eye contact** Not expected to cause eye irritation.**Skin contact** Causes mild skin irritation.**Ingestion** May cause gastrointestinal discomfort if consumed in large amounts. No known hazard by swallowing.**Symptoms related to the physical, chemical and toxicological characteristics****Symptoms** No information available.**Numerical measures of toxicity****Acute toxicity****The following values are calculated based on chapter 3.1 of the GHS document**

ATEmix (oral) 9.387,90 mg/kg

ATEmix (dermal) 2.494,80 mg/kg

Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

Component Information**Chemical name** Phosphorodithioc acid, mixed O, O-bis(2-ethylhexyl and iso-butyl and iso-propyl) esters, zinc salts**Oral LD50** = 3000 mg/kg (Rat)**Dermal LD50** > - **Inhalation LC50** -**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.**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** 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.**11.2. Information on other hazards**

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11.2.1. Endocrine disrupting properties**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.**11.2.2. Other information****Other adverse effects** No information available.

SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicity** Not considered to be harmful to aquatic life.**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.**Chemical name** Phosphorodithioc acid, mixed O, O-bis(2-ethylhexyl and iso-butyl and iso-propyl) esters, zinc salts**Algae/aquatic plants -****Fish 2.2:** 96 h *Cyprinodon variegatus* mg/L LC50**Toxicity to microorganisms -****Crustacea -****12.2. Persistence and degradability****Persistence and degradability** Not readily biodegradable.**12.3. Bioaccumulative potential****Bioaccumulation** Material does not bioaccumulate.**12.4. Mobility in soil****Mobility in soil** After release, adsorbs onto soil.**Mobility** Insoluble in water.**12.5. Results of PBT and vPvB assessment****PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.**12.6. Endocrine disrupting properties****Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.**12.7. Other adverse effects****Other adverse effects** No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Waste from residues/unused products** Disposal should be in accordance with applicable regional, national and local laws and regulations. Dispose of contents/container to industrial incineration plant. Should not be released into the environment. Use personal protection recommended in Section 8.**Contaminated packaging** Do not reuse empty containers.**Waste codes / waste designations according to EWC** 13 08 99*.

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SECTION 14: Transport information

- 14.1 UN number or ID number
- DOT, ADR, IMDG, IATA
- 14.2 UN proper shipping name
none
- ADR, IMDG, IATA
- 14.3 Transport hazard class(es)
- ADR, ADN, IMDG, IATA
none
- Class
- 14.4 Packing group
none
- ADR, IMDG, IATA
none
- 14.5 Environmental hazards:
Not applicable.
- 14.6 Special precautions for user
Not applicable.
- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.
- UN "Model Regulation": none

SECTION 15: Regulatory information

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

Water hazard class (WGK) slightly hazardous to water (WGK 1)

European Union Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Persistent Organic Pollutants Not applicable.

Export Notification requirements Not applicable.

Dangerous substance category per Seveso Directive (2012/18/EU) Non-controlled. **Ozone-depleting substances (ODS) regulation (EC) 1005/2009** Not applicable.

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
REACH	Complies
ENCS	-
IECSC	Complies
KECL	Complies
PICCS	Complies
AIIIC	Complies
NZIoC	Complies
TSCI	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

REACH - Registration, Evaluation, Authorization, and Restriction of Chemicals Regulation (EC 1907/2006) **ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances **KECL** - Korean Existing and Evaluated Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AiIC - Australian Inventory of Industrial Chemicals **NZIoC** - New Zealand Inventory of Chemicals

NZIoC - New Zealand Inventory of Chemicals

TSCI - Taiwan Chemical Substance Inventory

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Full text of H-Statements referred to under section 3

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

Key or legend to abbreviations and acronyms used in the safety data sheet

EC - European Commission

CLP - EU Regulation on the Classification, Labelling and Packaging of Substances and Mixture

GHS - Globally Harmonized System of Classification and Labelling

EUH - European Hazard statement

CAS - Chemical Abstracts Service

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

RID - European Agreements Concerning the International Carriage of Dangerous Goods by Rail

IMDG - International Maritime Dangerous Goods

IATA - International Air Transport Association **PBT** - Persistent, Bio-accumulative and Toxic **vPvB** - Very Persistent, Very Bio-accumulative

VOC - Volatile Organic Compounds

ATE - Acute Toxicity Estimate

STOT - Specific Target Organ Toxicity

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value * Skin designation

Classification procedure

Calculation method

Expert judgment and weight of evidence determination

Bridging principle "Substantially similar mixtures"

Key literature references and sources for data used to compile the SDS

Acute Exposure Guideline Level(s) (AEGl(s))

Agency for Toxic Substances and Disease Registry (ATSDR)

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) EPA (Environmental Protection Agency)

European Chemicals Agency

European Food Safety Authority (EFSA) Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID) Japan GHS Classification

National Library of Medicine's ChemID Plus (NLM CIP)

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National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID) NIOSH (National Institute
for Occupational Safety and Health)

Organisation for Economic Co-operation and Development Environment, Health, and Safety
Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals
Programme

Organisation for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)

U.S. Environmental Protection Agency ChemView Database

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals World Health Organization

Training Advice None in particular. The information required is contained in this Safety Data Sheet.

**This material safety data sheet complies with the requirements of Regulation (EC) No.
1907/2006**

Disclaimer

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.
