

## **SAFETY DATA SHEET**

DSP S.A.S.

Safety Data Sheet according to Regulation (EC) No 1907/2006 - Annex II

Product name: MOLYKOTE® BR-2 Plus High Performance Revision Date: 11.01.2022

Grease Version: 2.0

Date of last issue: 18.10.2018

Print Date: 13.01.2022

DSP S.A.S. encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: MOLYKOTE® BR-2 Plus High Performance Grease

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

Identified uses: Lubricants and lubricant additives

1.3 Details of the supplier of the safety data sheet COMPANY IDENTIFICATION

DSP S.A.S. 22 RUE BRUNEL 75017 PARIS FRANCE

Customer Information Number: 33(0)156604700

SDSQuestion-EU@dupont.com

1.4 EMERGENCY TELEPHONE NUMBER

**24-Hour Emergency Contact:** +(33)-975181407 **Local Emergency Contact:** +(33)-975181407

**ORFILA:** + 33 (0)1 45 42 59 59

#### **SECTION 2: HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008:

Serious eye damage - Category 1 - H318 Long-term (chronic) aquatic hazard - Category 3 - H412 For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 Label elements

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

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#### Hazard pictograms



## Signal word: DANGER

#### **Hazard statements**

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

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

P310 doctor.

P501 Dispose of contents/ container to an approved waste disposal plant.

**Contains** Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

#### 2.3 Other hazards

Endocrine disrupting properties (human health):

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### Endocrine disrupting properties (environment):

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature: Molybdenum disulfide grease

3.2 Mixtures

This product is a mixture.

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Identification number	Component	Classification according to Regulation (EU) 1272/2008 (CLP)	Specific concentration limit/ M-Factors/ Acute toxicity estimate	%
CASRN 68457-79-4 EC-No. 270-608-0 Index-No. - REACH No 01-2119493628-22	Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 2 - H411	Oral ATE: 3 600 mg/kg  Dermal ATE: > 20 000 mg/kg	>= 3,0 - < 10,0 %

Substances with a workplace exposure limit

Identification number	Component	Classification according to Regulation (EU) 1272/2008 (CLP)]	Specific Concentration Limits/ M-Factors/ Acute Toxicity Estimate	%
CASRN 7782-42-5 EC-No. 231-955-3 Index-No. – REACH No 01-2119486977-12	Graphite	Not classified	Oral ATE: > 2 000 mg/kg Inhalation ATE: > 2 mg/l (dust/mist)	>= 1,0 - < 10,0 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

## **SECTION 4: FIRST AID MEASURES**

## 4.1 Description of first aid measures General advice:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation: No emergency medical treatment necessary.

**Skin contact:** Wash off with plenty of water. Suitable emergency safety shower facility should be available in work area.

**Eye contact:** Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available. Get medical attention immediately.

**Ingestion:** No emergency medical treatment necessary.

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

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Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

4.3 Indication of any immediate medical attention and special treatment needed Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

#### SECTION 5: FIREFIGHTING MEASURES

## 5.1 Extinguishing media

Suitable extinguishing media: Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical

Unsuitable extinguishing media: None known.

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Metal oxides Oxides of phosphorus Sulphur oxides Carbon oxides

**Unusual Fire and Explosion Hazards:** Exposure to combustion products may be a hazard to health.

## 5.3 Advice for firefighters

Fire Fighting Procedures: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
- **6.2 Environmental precautions:** Do not release the product to the aquatic environment above defined regulatory levels. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
- 6.3 Methods and materials for containment and cleaning up: Wipe up or scrape up and contain for salvage or disposal. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. For large spills, provide dyking or other appropriate containment to

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keep material from spreading. If dyked material can be pumped. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

#### 6.4 Reference to other sections:

See sections: 7, 8, 11, 12 and 13.

#### **SECTION 7: HANDLING AND STORAGE**

- 7.1 Precautions for safe handling: Do not get on skin or clothing. Do not swallow. Do not get in eyes. Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment. Handle in accordance with good industrial hygiene and safety practice. Use only with adequate ventilation. See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- 7.2 Conditions for safe storage, including any incompatibilities: Keep in properly labelled containers. Keep tightly closed. Store in accordance with the particular national regulations.

Do not store with the following product types: Strong oxidizing agents. Unsuitable materials for containers: None known.

7.3 Specific end use(s): Information on specific end use(s) of this product may be provided in a technical data sheet/annex to the SDS (if available).

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

Component	Regulation	Type of listing	Value		
Graphite	ACGIH	TWA Respirable	2 mg/m3		
		particulate matter			
	Further information: pneum	Further information: pneumoconiosis: Pneumoconiosis			
	FR VLE	VME Alveolar	2 mg/m3		
		fraction			
	Further information: Indicat	Further information: Indicative exposure limits: Indicative exposure limits			

### **Derived No Effect Level**

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

#### Workers

Acute syste	Acute systemic effects		Acute local effects		n systemic ects	Long-term	local effects
Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation
n.a.	n.a.	n.a.	n.a.	11,87 mg/kg bw/day	8,13 mg/m3	n.a.	n.a.

#### Consumers

-				
ĺ	Acute systemic effects	Acute local effects	Long-term systemic effects	Long-term local
				effects

Dermal	Inhalation	Oral	Dermal	Inhalation	Dermal	Inhalation	Oral	Dermal	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	5,93	2,06	0,24	n.a.	n.a.
					mg/kg	mg/m3	mg/kg		
					bw/day		bw/day		

## Graphite

## Workers

Acute syste	emic effects	Acute local effects		Long-term systemic effects		Long-term local effects	
Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation	Dermal	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	1,2 mg/m3

#### **Consumers**

Acute	Acute systemic effects		Long-term systemic effects			Long-term local effects			
Dermal	Inhalation	Oral	Dermal	Inhalation	Dermal	Inhalation	Oral	Dermal	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	813 mg/kg bw/day	n.a.	0,3 mg/m3

#### **Predicted No Effect Concentration**

Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

Compartment	PNEC
Fresh water	4 μg/l
Marine water	4,6 μg/l
Intermittent use/release	45 μg/l
Sewage treatment plant	100 mg/l
Oral (Secondary Poisoning)	10,67 mg/kg food
Soil	0,002 mg/kg dry weight (d.w.)
Marine sediment	0,002 mg/kg dry weight (d.w.)
Fresh water sediment	0,024 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

Engineering controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

## Individual protection measures

Eye/face protection: Use chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent.

## Skin protection

Hand protection: Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements

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(cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

**Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. If there are no applicable exposure limit requirements or guidelines, use an approved respirator.

#### **Environmental exposure controls**

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1 Information on basic physical and chemical properties

Physical state solid (20 °C, )

Form Grease

Colour black

**Odour** slight

**Odour Threshold** No data available

**Melting point/freezing point** Melting point/range: No data available

Boiling point or initial boiling point and boiling range

Boiling point/boiling range: Not applicable

Flammability Not classified as a flammability hazard

Lower explosion limit and upper explosion limit / flammability limit

Lower explosion limit / Lower flammability limit

No data available

Upper explosion limit / Upper flammability limit

No data available

Flash point > 200 °C

Method: (closed cup)

Auto-ignition temperature No data available

Decomposition temperature Thermal decomposition

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No data available

**pH** Not applicable

Viscosity Viscosity, kinematic

Not applicable

Viscosity, dynamic

Not applicable

Solubility(ies) Water solubility

No data available

Partition coefficient: n-

octanol/water

No data available

Vapour pressure Not applicable

Density and / or relative

density

Relative density

0,89

Relative vapour density No data available

Particle characteristics Particle size

No data available

9.2 Other information

Oxidizing properties The substance or mixture is not classified as oxidizing.

**Self-heating substances** The substance or mixture is not classified as self heating.

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

in contact with water.

The substance or mixture does not emit flammable gases

Evaporation rate Not applicable

Molecular weight No data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

## **SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:** Not classified as a reactivity hazard.

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10.2 Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions: Can react with strong oxidizing agents.

10.4 Conditions to avoid: None known.

10.5 Incompatible materials: Oxidizing agents

#### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

Toxicological information appears in this section when such data is available.

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

#### **Acute toxicity**

#### Acute toxicity (Acute oral toxicity)

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

## Acute toxicity (Acute dermal toxicity)

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

#### Acute toxicity (Acute inhalation toxicity)

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

## Skin corrosion/irritation

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

## Serious eye damage/eye irritation

Serious eye damage, Category 1

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H318: Causes serious eye damage.

Classification procedure: Calculation method

Product test data not available. Refer to component data.

#### Respiratory or skin sensitisation

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

#### Germ cell mutagenicity

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

## Carcinogenicity

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

## Reproductive toxicity

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Toxicity to reproduction assessment:

Product test data not available. Refer to component data.

Assessment Teratogenicity:

Product test data not available. Refer to component data.

## STOT - single exposure

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

## STOT - repeated exposure

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

#### **Aspiration Hazard**

Not classified

Not classified due to lack of data. / Not classified due to data which are conclusive although insufficient for classification.

Product test data not available. Refer to component data.

#### COMPONENTS INFLUENCING TOXICOLOGY:

## Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

## Acute toxicity (Acute oral toxicity)

LD50, Rat, male, 3 600 mg/kg

#### Acute toxicity (Acute dermal toxicity)

LD50, Rabbit, male and female, > 20 000 mg/kg

## Acute toxicity (Acute inhalation toxicity)

The LC50 has not been determined.

#### Skin corrosion/irritation

Brief contact may cause slight skin irritation with local redness.

## Serious eye damage/eye irritation

May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

## Respiratory or skin sensitisation

For skin sensitization:

Based on data from similar materials

Did not cause allergic skin reactions when tested in guinea pigs.

For respiratory sensitization:

No relevant data found.

#### Germ cell mutagenicity

For similar material(s): In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

## Carcinogenicity

No relevant data found.

## Reproductive toxicity

Toxicity to reproduction assessment:

No relevant data found.

Assessment Teratogenicity:

No relevant data found.

## STOT - single exposure

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

## STOT - repeated exposure

Observations in animals include:

Gastrointestinal irritation.

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#### **Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

#### Graphite

## **Acute toxicity (Acute oral toxicity)**

LD50, Rat, > 2 000 mg/kg OECD Test Guideline 401 No deaths occurred at this concentration.

## Acute toxicity (Acute dermal toxicity)

The dermal LD50 has not been determined.

#### Acute toxicity (Acute inhalation toxicity)

LC50, Rat, 4 Hour, dust/mist, > 2 mg/l OECD Test Guideline 403 No deaths occurred at this concentration.

#### Skin corrosion/irritation

Essentially nonirritating to skin.

## Serious eye damage/eye irritation

May cause slight temporary eye irritation.

May cause slight temporary corneal injury.

#### Respiratory or skin sensitisation

Did not demonstrate the potential for contact allergy in mice.

For respiratory sensitization:

No relevant data found.

#### Germ cell mutagenicity

In vitro genetic toxicity studies were negative.

#### Carcinogenicity

No relevant data found.

#### Reproductive toxicity

Toxicity to reproduction assessment:

In animal studies, did not interfere with reproduction.

#### Assessment Teratogenicity:

Did not cause birth defects or any other fetal effects in laboratory animals.

#### STOT - single exposure

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

#### STOT - repeated exposure

Excessive exposure may cause irritation to upper respiratory tract (nose and throat) and lungs.

#### **Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

#### 11.2. Information on other hazards

#### **Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### **Further information**

No data available

## **SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicological information appears in this section when such data is available.

#### 12.1 Toxicity

#### Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

#### Acute toxicity to fish

Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in the most sensitive species).

Based on data from similar materials

LL50, Cyprinodon variegatus (sheepshead minnow), semi-static test, 96 Hour, 4,5 mg/l, OECD Test Guideline 203

#### Acute toxicity to aquatic invertebrates

Based on data from similar materials

EL50, Daphnia magna (Water flea), static test, 48 Hour, 23 mg/l, OECD Test Guideline 202

### Acute toxicity to algae/aquatic plants

Based on data from similar materials

EL50, Desmodesmus subspicatus (green algae), 72 Hour, 24 mg/l, OECD Test Guideline 201

## Toxicity to bacteria

Based on data from similar materials

EC50, 3 Hour, > 1 000 mg/l, OECD Test Guideline 209

## Chronic toxicity to aquatic invertebrates

Based on data from similar materials

NOEC, Daphnia magna (Water flea), 21 d, 0,4 mg/l

#### Graphite

#### Acute toxicity to fish

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).

LC50, Danio rerio (zebra fish), 96 Hour, > 100 mg/l, OECD Test Guideline 203

## Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), 48 Hour, > 100 mg/l, OECD Test Guideline 202

#### Acute toxicity to algae/aquatic plants

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EC50, Pseudokirchneriella subcapitata (green algae), 72 Hour, > 100 mg/l, OECD Test Guideline 201

### Toxicity to bacteria

EC50, 3 Hour, > 1 012,5 mg/l, OECD Test Guideline 209

#### 12.2 Persistence and degradability

## Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails

to pass OECD/EEC tests for ready biodegradability.

Based on data from similar materials 10-day Window: Fail

**Biodegradation:** 1,5 % Exposure time: 28 d

Method: OECD Test Guideline 301B

### Graphite

**Biodegradability:** Biodegradation is not applicable.

## 12.3 Bioaccumulative potential

## Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

Bioaccumulation: For similar material(s): Bioconcentration potential is low (BCF < 100 or

Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 0.69 OECD Test Guideline 107

#### Graphite

Bioaccumulation: No relevant data found.

#### 12.4 Mobility in soil

## Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

No specific, relevant data available for assessment.

#### Graphite

No relevant data found.

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent. bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

#### Graphite

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

## 12.6 Endocrine disrupting properties

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The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 12.7 Other adverse effects

## Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

### **Graphite**

This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

## SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Do not dump into any sewers, on the ground, or into any body of water. This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

## **SECTION 14: TRANSPORT INFORMATION**

## Classification for ROAD and Rail transport (ADR/RID):

**14.1 UN number or ID number** Not applicable

**14.2 UN proper shipping name** Not regulated for transport

14.3 Transport hazard class(es) Not applicable14.4 Packing group Not applicable

**14.5 Environmental hazards** Not considered environmentally hazardous based on

available data.

**14.6** Special precautions for user No data available.

#### Classification for SEA transport (IMO-IMDG):

**14.1 UN number or ID number** Not applicable

**14.2 UN proper shipping name** Not regulated for transport

14.3 Transport hazard class(es) Not applicable14.4 Packing group Not applicable

**14.5** Environmental hazards Not considered as marine pollutant based on available data.

**14.6 Special precautions for user** No data available.

**14.7 Maritime transport in bulk** Consult IMO regulations before transporting ocean bulk

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## according to IMO instruments

## Classification for AIR transport (IATA/ICAO):

**14.1 UN number or ID number** Not applicable

**14.2 UN proper shipping name** Not regulated for transport

14.3 Transport hazard class(es) Not applicable
 14.4 Packing group Not applicable
 14.5 Environmental hazards Not applicable
 14.6 Special precautions for user No data available.

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## **SECTION 15: REGULATORY INFORMATION**

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

## REACh Regulation (EC) No 1907/2006

This product contains only components that have been either registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH)., The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Listed in Regulation: Not applicable

Installations classified for the protection of the environment (Environment Code R511-9) not determined

Occupational Illnesses (R-461-3, France): (Not applicable)

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture.

## **SECTION 16: OTHER INFORMATION**

#### Full text of H-Statements referred to under sections 2 and 3.

H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

## Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008

Eye Dam. - 1 - H318 - Calculation method Aquatic Chronic - 3 - H412 - Calculation method

#### Revision

Identification Number: 4112543 / A674 / Issue Date: 11.01.2022 / Version: 2.0 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

#### Legend

ACGIH	USA. ACGIH Threshold Limit Values (TLV)
FR VLE	France. Occupational Exposure Limits (INRS)
TWA	8-hour, time-weighted average
VME	Time Weighted Average
Aquatic Chronic	Long-term (chronic) aquatic hazard
Eye Dam.	Serious eye damage
Skin Irrit.	Skin irritation

#### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS -Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration: ICAO - International Civil Aviation Organization: IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods: IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL -No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New

Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention: PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances: (Q)SAR -(Quantitative) Structure Activity Relationship: REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA -Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

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