Safety Data Sheet
in accordance with Regulation (EU) 2020/878
Revision date: 04/10/2023. Print date: 04/10/2023. Version: 11

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

1.1. Product identifier

Product name	RIDEX PLUS ATF III
Product code	P41111-RID001

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

Use of the substance/mixture	Lubricant

1.3. Details of the supplier of the safety data sheet

RIDEX GmbH	Josef-Orlopp-Straße 55 10365 Berlin, Germany	www.ridex.eu info@ridex.de	+49 302 202 72 34

1.4. Emergency telephone number

Emergency number : +32 70 245 245 Belgian Anti-Poison Centre, Bruynstraat 1, 1120 Brussels

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Hazardous to the aquatic environment (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]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

Hazard components for labelling	Reaction product of alkylthioalcohol and substituted phosphorus compound; naphthalene; Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Lubricating oils (petroleum), C20-50, hydrotreated neutral oil.

Hazard statements for environmental hazards	
H412	Harmful to aquatic life with long-lasting effects.

Supplemental hazard information	None.

Precautionary statements Prevention	
P273	Avoid release to the environment.
Precautionary statements Disposal	
P501	Dispose of contents/container at an appropriate recycling or disposal facility.

2.3. Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1. Mixtures*

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lubricating oils (petroleum), C15-30, hydrotreated neutral oilbased	CAS-No.: 72623-86-0 EC-No.: 276-737-9 REACH-No.: 01-2119474878-16	1 – < 2	Asp. Tox. 1 (H304) Danger
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil	CAS-No.: 72623-87-1 EC-No.: 276-738-4 REACH-No.: 01-2119474889-13	0 – < 1	Asp. Tox. 1 (H304) Danger Specific concentration limit (SCL) Asp. Tox. 1; H304: 0% ≤ C < 100%
Reaction product of alkylthioalcohol and substituted phosphorus compound	EC-No.: 424-820-7 REACH-No.: 01-0000017126-75	0 – < 0.17	Acute Tox. 4 (H312), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Skin Corr. 1B (H314) Danger M-factor (acute): 10 M-factor (chronic): 10
naphthalene	CAS-No.: 91-20-3 EC-No.: 202-049-5 Index-No.: 601-052-00-2	0 – ≤ 0.00013	Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Carc. 2 (H351) Warning

Full text of H- and EUH-phrases: see Section 16.

SECTION 4: First-aid measures

4.1. Description of first-aid measures*

General information: In case of an accident or if a person feels unwell, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim from danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in the recovery position and seek medical advice.

Do not leave the affected person unattended.

Following inhalation	Provide fresh air. Consult a doctor immediately.
In case of skin contact	Consult a doctor immediately.
After eye contact	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes, holding the eyelids apart, and consult an ophthalmologist.
Following ingestion	Rinse mouth thoroughly with water. Consult a doctor immediately. Rinse mouth. Seek medical advice/attention if you feel unwell. Let 1 glass of water be drunk in little sips (dilution effect).
Self-protection of the first aider	First aider: remember to protect yourself!

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

No data available.

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

Treat symptomatically. Observe risk of aspiration if vomiting occurs.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use water spray jet to protect personnel and to cool endangered containers. Water spray, alcohol-resistant foam, extinguishing powder, carbon dioxide (CO_2).
Unsuitable extinguishing media	Full water jet.

5.2. Special hazards arising from the substance or mixture

During heating or in the event of a fire, toxic gases may form.

The formation of combustible vapours is possible at temperatures above	Flash point, Combustible.

Hazardous combustion products	When heated or in the event of a fire, toxic gases may form: carbon monoxide, carbon dioxide (CO_2), nitrogen oxides (NO_x). In case of fire: gases/vapours, toxic.

5.3. Advice for firefighters

In case of fire	Wear self-contained breathing apparatus. Protective clothing. Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow it to enter drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions	Use personal protection equipment. Special danger of slipping caused by leaking/spilling product. Remove persons to safety.
Protective equipment	Wear protective gloves/protective clothing/eye protection/ face protection.
Emergency procedures	Remove persons to safety.

6.1.2. For emergency responders

Personal protection equipment	Use personal protection equipment. Personal protection equipment: see Section 8.

6.2. Environmental precautions

Do not allow product to enter into soil/subsoil. Do not allow product to enter surface water or drains. Prevent spread over a wide area (e.g. through containment or oil barriers). In case of gas leaks or of entry into waterways, soil, or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment	Suitable material for taking up spills: sand, kieselguhr, universal binder, chemical binding agents, containing acids. Absorb with liquid-binding material (sand, diatomaceous earth, or acid-or universal binding agents).

For cleaning up	Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Other information	Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling	See Section 7.
Disposal	See Section 13.
Personal protection equipment	See Section 8.

6.5. Additional information

Clear spills immediately. Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling*

Protective measures	
Advices on safe handling	Personal protection equipment: see Section 8. When using do not eat, drink, smoke, or sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate containers to avoid environmental contamination. Wear personal protection equipment (refer to Section 8).
Fire prevent measures	No special fire protection measures are necessary. Take precautionary measures against static discharge. Keep away from sources of ignition - No smoking.
Environmental precautions	See Section 8.

Advice on general occupational hygiene

The minimum standards for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, or sniff. Avoid contact with skin, eyes, and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	Keep container tightly closed in a cool, well-ventilated place.
Requirements for storage rooms and vessels	Suitable container/equipment material: floors should be impervious, resistant to liquids and easy to clean. Shafts and sewers must be protected against product entry. Store only in original container.

Hints on storage assembly	Not required.
Storage class (TRGS 510, Germany)	10 – Combustible liquids that cannot be assigned to any of the above storage classes.
Further information on storage conditions	Store in a cool, dry place. Keep away from heat.

7.3. Specific end use(s)

Recommendation	Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters*

8.1.1. National occupational exposure and biological limit values

Limit value type (country of origin)	**Substance name**	**1. Long-term occupational exposure limit value 2. Short-term occupational exposure limit value 3. Instantaneous value 4. Monitoring and observation processes 5. Remark**
TRGS 900 (DE) from 23 Jun 2022	naphthalene CAS-No.: 91-20-3 EC-No.: 202-049-5	1. 0.4 ppm (2 mg/m³) 2. 1.6 ppm (8 mg/m³) 5. (Aerosol and vapour can be absorbed through the skin) AGS, H, Y, EU, 11, 27
IOELV (EU)	naphthalene CAS-No.: 91-20-3 EC-No.: 202-049-5	1. 10 ppm (50 mg/m³)

8.1.2. Biological limit values
No data available.

8.1.3. DNEL-/PNEC-values

Substance name	**DNEL value**	**1. DNEL type 2. Exposure route**
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS-No.: 72623-86-0 EC-No.: 276-737-9	2.73 mg/m³	1. DNEL worker 2. Long-term – inhalation, systemic effects
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS-No.: 72623-86-0 EC-No.: 276-737-9	5.58	1. DNEL worker 2. Long-term – inhalation, local effects

Substance name	DNEL value	1. DNEL type 2. Exposure route
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS-No.: 72623-86-0 EC-No.: 276-737-9	0.97 mg/kg	1. DNEL worker 2. Long-term - dermal, systemic effects
bis(nonylphenyl)amine CAS-No.: 36878-20-3 EC-No.: 253-249-4	5 mg/kg bw/day	1. DNEL worker 2. Long-term - dermal, systemic effects
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich CAS-No.: 398141-87-2 EC-No.: 800-172-4	24.7 mg/m³	1. DNEL worker 2. Long-term – inhalation, systemic effects
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich CAS-No.: 398141-87-2 EC-No.: 800-172-4	350 mg/kg bw/day	1. DNEL worker 2. Long-term - dermal, systemic effects
Reaction product of alkylthioalcohol and substituted phosphorus compound EC-No.: 424-820-7	1.76 mg/m³	1. DNEL worker 2. Long-term – inhalation, systemic effects
Reaction product of alkylthioalcohol and substituted phosphorus compound EC-No.: 424-820-7	0.5 mg/kg bw/day	1. DNEL worker 2. Long-term - dermal, systemic effects
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS-No.: 1213789-63-9 EC-No.: 627-034-4	0.38 mg/m³	1. DNEL worker 2. Long-term – inhalation, systemic effects
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS-No.: 1213789-63-9 EC-No.: 627-034-4	1 mg/m³	1. DNEL worker 2. Long-term – inhalation, local effects
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS-No.: 1213789-63-9 EC-No.: 627-034-4	1 mg/cm²	1. DNEL worker 2. Acute - inhalation, local effects
methyl-1H-benzotriazole CAS-No.: 29385-43-1 EC-No.: 249-596-6	8.8 mg/m³	1. DNEL worker 2. Long-term – inhalation, systemic effects
methyl-1H-benzotriazole CAS-No.: 29385-43-1 EC-No.: 249-596-6	4.4 mg/m³	1. DNEL Consumer 2. Long-term – inhalation, systemic effects
methyl-1H-benzotriazole CAS-No.: 29385-43-1 EC-No.: 249-596-6	0.5 mg/kg bw/day	1. DNEL worker 2. Long-term - dermal, systemic effects
methyl-1H-benzotriazole CAS-No.: 29385-43-1 EC-No.: 249-596-6	0.25 mg/kg bw/day	1. DNEL Consumer 2. Long-term - dermal, systemic effects
methyl-1H-benzotriazole CAS-No.: 29385-43-1 EC-No.: 249-596-6	0.25 mg/kg bw/day	1. DNEL Consumer 2. Long-term - dermal, systemic effects

Substance name	DNEL value	1. DNEL type 2. Exposure route
methyl-1H-benzotriazole CAS-No.: 29385-43-1 EC-No.: 249-596-6	0.25 mg/kg bw/day	1. DNEL Consumer 2. Acute – oral, systemic effects
N,N-bis(2-hydroxyethyl)-3- [(C16-18)alkoxy]-1-propanamine EC-No.: 930-859-5	2.93 mg/m³	1. DNEL worker 2. Long-term – inhalation, systemic effects
N,N-bis(2-hydroxyethyl)-3- [(C16-18)alkoxy]-1-propanamine EC-No.: 930-859-5	0.83 mg/kg bw/day	1. DNEL worker 2. Long-term - dermal, systemic effects
naphthalene CAS-No.: 91-20-3 EC-No.: 202-049-5	25 mg/m³	1. DNEL worker 2. Long-term – inhalation, systemic effects
naphthalene CAS-No.: 91-20-3 EC-No.: 202-049-5	25 mg/m³	1. DNEL worker 2. Long-term – inhalation, local effects
naphthalene CAS-No.: 91-20-3 EC-No.: 202-049-5	3.57 mg/kg bw/day	1. DNEL worker 2. Long-term - dermal, systemic effects

Substance name	PNEC Value	1. PNEC type
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS-No.: 72623-86-0 EC-No.: 276-737-9	9.99 mg/kg	PNEC secondary poisoning
bis(nonylphenyl)amine CAS-No.: 36878-20-3 EC-No.: 253-249-4	412 µg/L	PNEC aquatic, freshwater
bis(nonylphenyl)amine CAS-No.: 36878-20-3 EC-No.: 253-249-4	41.2 µg/L	PNEC aquatic, marine water
bis(nonylphenyl)amine CAS-No.: 36878-20-3 EC-No.: 253-249-4	1 mg/L	PNEC aquatic, intermittent release

Substance name	PNEC Value	1. PNEC type
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based CAS-No.: 72623-86-0 EC-No.: 276-737-9	9.99 mg/kg	PNEC secondary poisoning
bis(nonylphenyl)amine CAS-No.: 36878-20-3 EC-No.: 253-249-4	412 µg/L	PNEC aquatic, freshwater
bis(nonylphenyl)amine CAS-No.: 36878-20-3 EC-No.: 253-249-4	41.2 µg/L	PNEC aquatic, marine water

Substance name	PNEC Value	1. PNEC type
bis(nonylphenyl)amine CAS-No.: 36878-20-3 EC-No.: 253-249-4	1 mg/L	PNEC aquatic, intermittent release
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich CAS-No.: 398141-87-2 EC-No.: 800-172-4	2.4 µg/L	PNEC aquatic, freshwater
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich CAS-No.: 398141-87-2 EC-No.: 800-172-4	0.33 µg/L	PNEC aquatic, marine water
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich CAS-No.: 398141-87-2 EC-No.: 800-172-4	100 mg/L	PNEC sewage treatment plant
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich CAS-No.: 398141-87-2 EC-No.: 800-172-4	0.433 mg/kg	PNEC sediment, freshwater
Thiophene, tetrahydro-, 1,1-dioxide, 3-(C9-11-isoalkyloxy) derivs., C10-rich CAS-No.: 398141-87-2 EC-No.: 800-172-4	0.0596 mg/kg	PNEC soil, marine water
Reaction product of alkylthioalcohol and substituted phosphorus compound EC-No.: 424-820-7	0.9 µg/L	PNEC aquatic, freshwater
Reaction product of alkylthioalcohol and substituted phosphorus compound EC-No.: 424-820-7	0.09 µg/L	PNEC aquatic, marine water
Reaction product of alkylthioalcohol and substituted phosphorus compound EC-No.: 424-820-7	5 mg/L	PNEC sewage treatment plant
Reaction product of alkylthioalcohol and substituted phosphorus compound EC-No.: 424-820-7	0.159 mg/kg bw/day	PNEC sediment, freshwater
Reaction product of alkylthioalcohol and substituted phosphorus compound EC-No.: 424-820-7	0.0159 mg/kg bw/day	PNEC sediment, marine water
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS-No.: 1213789-63-9 EC-No.: 627-034-4	0.26 µg/L	PNEC aquatic, freshwater
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS-No.: 1213789-63-9 EC-No.: 627-034-4	0.026 µg/L	PNEC aquatic, marine water

Substance name	PNEC Value	1. PNEC type
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS-No.: 1213789-63-9 EC-No.: 627-034-4	3.76 mg/kg	PNEC sediment, freshwater
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS-No.: 1213789-63-9 EC-No.: 627-034-4	0.376 mg/kg	PNEC sediment, marine water
C16-18-(even numbered, saturated and unsaturated)-alkylamines CAS-No.: 1213789-63-9 EC-No.: 627-034-4	10 mg/kg	PNEC soil
methyl-1H-benzotriazole CAS-No.: 29385-43-1 EC-No.: 249-596-6	0.01 mg/L	PNEC aquatic, freshwater
methyl-1H-benzotriazole CAS-No.: 29385-43-1 EC-No.: 249-596-6	39.4 mg/L	PNEC sewage treatment plant
methyl-1H-benzotriazole CAS-No.: 29385-43-1 EC-No.: 249-596-6	0 mg/kg	PNEC sediment, freshwater
methyl-1H-benzotriazole CAS-No.: 29385-43-1 EC-No.: 249-596-6	0 mg/kg	PNEC sediment, marine water
methyl-1H-benzotriazole CAS-No.: 29385-43-1 EC-No.: 249-596-6	0 mg/kg	PNEC soil
methyl-1H-benzotriazole CAS-No.: 29385-43-1 EC-No.: 249-596-6	0.01 mg/L	PNEC soil, marine water
N,N-bis(2-hydroxyethyl)-3-[(C16-18)alkoxy]-1-propanamine EC-No.: 930-859-5	0.001 mg/L	PNEC aquatic, freshwater
N,N-bis(2-hydroxyethyl)-3-[(C16-18)alkoxy]-1-propanamine EC-No.: 930-859-5	0 mg/L	PNEC aquatic, marine water
N,N-bis(2-hydroxyethyl)-3-[(C16-18)alkoxy]-1-propanamine EC-No.: 930-859-5	100 mg/L	PNEC sewage treatment plant
N,N-bis(2-hydroxyethyl)-3-[(C16-18)alkoxy]-1-propanamine EC-No.: 930-859-5	0.004 mg/kg	PNEC sediment, freshwater
N,N-bis(2-hydroxyethyl)-3-[(C16-18)alkoxy]-1-propanamine EC-No.: 930-859-5	0 mg/kg	PNEC sediment, marine water
N,N-bis(2-hydroxyethyl)-3-[(C16-18)alkoxy]-1-propanamine EC-No.: 930-859-5	0.002 mg/kg	PNEC soil

Substance name	PNEC Value	1. PNEC type
N,N-bis(2-hydroxyethyl)-3-[(C16-18)alkoxy]-1-propanamine EC-No.: 930-859-5	16.67 mg/kg	PNEC secondary poisoning
naphthalene CAS-No.: 91-20-3 EC-No.: 202-049-5	2.4 µg/L	PNEC aquatic, freshwater
naphthalene CAS-No.: 91-20-3 EC-No.: 202-049-5	2.4 µg/L	PNEC aquatic, marine water
naphthalene CAS-No.: 91-20-3 EC-No.: 202-049-5	2.9 mg/L	PNEC sewage treatment plant
naphthalene CAS-No.: 91-20-3 EC-No.: 202-049-5	20 µg/L	PNEC aquatic, intermittent release

8.2. Exposure controls*

8.2.1. Appropriate engineering controls
See Section 7. No additional measures necessary.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection
During transfer: Eye glasses with side protection.
Wear eye/face protection. Standard - EN 166.

8.2.2.2. Skin protection

Hand protection:	Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber). Thickness of the glove material: ≥ 0.4 mm. Breakthrough time: 480 min. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Tested protective gloves must be worn: EN ISO 374. Suitable protective clothing: if you wish to reuse the protective gloves, clean them before taking them off and air them well. The breakthrough times and swelling properties of the material must be taken into consideration.

8.2.2.3. Respiratory protection

Respiratory protection	Usually no personal respiratory protection necessary.

8.2.3. Environmental exposure controls
See Section 7. No additional measures necessary.

8.3. Additional information

Mineral oil mist limits	OSHA PEL - value 5 mg/m³, ACGIH STEL - value of 10 mg/m³

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Odour	Not determined
Colour	Red

Safety relevant basis data		
Parameter	**Value**	**1. Method** **2. Remark**
pH	No data available	
Melting point	No data available	
Freezing point	-54°C	
Initial boiling point and boiling range	No data available	
Flash point	208°C	
Evaporation rate	No data available	
Auto-ignition temperature	No data available	
Upper/lower flammability or explosive limits	No data available	
Vapour pressure	No data available	
Vapour density	No data available	
Density	852 kg/m³ at 15°C	
Bulk density	Not applicable	
Water solubility	No data available	
Dynamic viscosity	No data available	
Kinematic viscosity	35 mm²/s at 40°C	

9.2. Other information

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions. Combustible.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use, and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials

Materials to avoid	Acid, oxidising agents, reducing agents

10.6. Hazardous decomposition products

Hazardous combustion products	Carbon dioxide, carbon monoxide, nitrogen oxides (NO_x) Gases/vapours, toxic

SECTION 11: Toxicological information

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

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	
Oral LD_{50} (rat)	5000 mg/kg
Dermal LD_{50} (rabbit)	> 2000 mg/kg
Acute inhalation toxicity LC_{50} (dust/mist)	> 5.53 mg/l 4 h

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil	
Oral LD_{50} (rat)	> 5000 mg/kg OECD 401
Dermal LD_{50} (rabbit)	> 2000 mg/kg OECD 402
Acute inhalation toxicity LC_{50} (dust/mist)	> 5 mg/l

Reaction product of alkylthioalcohol and substituted phosphorus compound	
Oral LD_{50} (rat)	2000 mg/kg
Dermal LD_{50} (rabbit)	500 mg/kg

naphthalene	
Oral LD_{50} (mouse)	> 533 mg/kg
Dermal LD_{50} (rat)	> 16,000 mg/kg
Acute inhalation toxicity LC_{50} (vapour)	> 0.4 mg/l 4 h. Animal: rat
Acute inhalation toxicity LC_{50} (dust/mist)	> 0.4 mg/l 4 h. Animal: rat

Acute toxicity (oral)	Based on available data, the classification criteria are not met.
Acute toxicity (dermal)	Based on available data, the classification criteria are not met.
Acute toxicity (inhalation)	Based on available data, the classification criteria are not met.
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	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.
Additional information	No data available

11.2. Information on other hazards*

Endocrine-disrupting properties	This product does not contain a substance that has endocrine-disrupting properties with respect to humans as no components meet the criteria.

SECTION 12: Ecological information

12.1. Toxicity*

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil	
EC_{50} – algae/water plant	> 100 mg/l 2 d (Pseudokirchneriella subcapitata) (OECD 201 method)
EC_{50} – crustacea	> 10,000 mg/l 2 d (Daphnia magna (Big water flea)) (OECD 202 method)
NOEC (crustacea)	10 mg/l 21 d (Daphnia magna (Big water flea)) OECD 211
NOEC (algae)	> 100 mg/l 3 d (Daphnia magna (Big water flea)) (OECD 201 method)
NOEC (fish)	> 100 mg/l 4 d (Pimephales promelas (fathead minnow))

Reaction product of alkylthioalcohol and substituted phosphorus compound	
LC_{50} – fish	1.5 mg/l 4 d
EC_{50} – crustacea	0.09 mg/l 2 d
EC_{50} – algae/water plant	0.31 mg/l 3 d

naphthalene	
LC_{50} – fish	6.08 mg/l 3 d (Pimephales promelas)
LC_{50} – fish	1.2 mg/l 4 d (Oncorhynchus gorbuscha)
LC_{50} – fish	6.35 mg/l 2 d (Pimephales promelas)
EC_{50} – algae/water plant	> 2.96 mg/l 4 d
EC_{50} – crustacea	2.16 mg/l 2 d (Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC (fish)	0.12 mg/l 40 d (Oncorhynchus gorbuscha)
LOEC (fish)	0.38 mg/l 40 d (Oncorhynchus gorbuscha)

Aquatic toxicity	Harmful to aquatic life with long-lasting effects.

12.2. Persistence and degradability*

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil	
Biodegradation	Yes, slowly

12.3. Bioaccumulative potential*

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil	
Log K_{ow}	6
naphthalene	
Log K_{ow}	3.7
Bioconcentration factor (BCF)	168

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment*

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	
Results of PBT and vPvB assessment	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil	
Results of PBT and vPvB assessment	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Reaction product of alkylthioalcohol and substituted phosphorus compound	
Results of PBT and vPvB assessment	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
naphthalene	
Results of PBT and vPvB assessment	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine-disrupting properties*

This product does not contain any substances that have endocrine-disrupting properties with respect to non-target organisms as no components meet the criteria.

12.7. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

Waste treatment options	
Appropriate disposal / Product	Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.
Appropriate disposal / Package	Non-contaminated packages may be recycled.

13.2. Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/ RID)	**Inland waterway craft (ADN)**	**Sea transport (IMDG)**	**Air transport (ICAO-TI / IATA-DGR)**
14.1. UN number or ID number			
No dangerous good within the context of these transport regulations.	No dangerous good within the context of these transport regulations.	No dangerous good within the context of these transport regulations.	No dangerous good within the context of these transport regulations.
14.2. UN proper shipping name			
No dangerous good within the context of these transport regulations.	No dangerous good within the context of these transport regulations.	No dangerous good within the context of these transport regulations.	No dangerous good within the context of these transport regulations.
14.3. Transport hazard class(es)			
Not relevant.	Not relevant.	Not relevant.	Not relevant.
14.4. Packing group			
Not relevant.	Not relevant.	Not relevant.	Not relevant.
14.5. Environmental hazards			
Not relevant.	Not relevant.	Not relevant.	Not relevant.
14.6. Special precautions for user			
Not relevant.	Not relevant.	Not relevant.	Not relevant.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU)	This product is not assigned to a hazard category. Safety data sheet available for professional user on request.

15.1.2. National regulations

[DE] National regulations

Störfallverordnung (12. BImschV) for substances contained in the product:
This product is not assigned to a hazard category.
E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1.

Technische Anleitung zur Reinhaltung der Luft (TA-Luft) Remark:
To follow: 5.2.5

Water hazard class

WGK:
2 - obviously hazardous to water.

Source:
Self-classification (mixture; calculation rule).

Technische Regeln für Gefahrstoffe
TRGS 510
Minimum standards for preventive measures while handling with working materials are specified in the TRGS 500.

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)
Berufsgenossenschaftliche Informationen (DGUV-Informationen) 868
Berufsgenossenschaftliche Regeln (DGUV-Regeln) 189, 190, 192, 195

Other regulations, restrictions and prohibition regulations
Altöl-Verordnung (AltölV)

15.2. Chemical safety assessment

No chemical safety assessment was carried out for the substances in this mixture.

SECTION 16: Other information

16.1. Indication of changes*

2.2	Label elements
3.2	Mixtures
4.1	Description of first-aid measures
7.1	Precautions for safe handling
8.1	Control parameters

8.2	Exposure controls
11.1	Information on hazard classes as defined in Regulation (EC) No. 1272/2008
11.2	Information on other hazards
12.1	Toxicity
12.2	Persistence and degradability
12.3	Bioaccumulative potential
12.5	Results of PBT and vPvB assessment
12.6	Endocrine-disrupting properties
15.1	Safety, health, and environmental regulations/legislation specific for the substance or mixture
16.1	Indication of changes
16.2	Abbreviations and acronyms
16.3	Key literature references and sources for data
16.5	List of relevant hazard statements and/or precautionary statements from sections 2 to 15

16.2. Abbreviations and acronyms*

Abbreviations and acronyms:	
ACGIH	American Conference of Governmental Industrial Hygienists
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
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	Derived No-Effect Level
EC_{50}	Median Effective Concentration
ES	Exposure Scenario
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
BW	Body Weight
LC_{50}	Median Lethal Concentration
LD_{50}	Median Lethal Dose

Abbreviations and acronyms:	
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	Persistent and bioaccumulative and toxic
PEL	Permissible Exposure Limit
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific Concentration Limit
STEL	Short-term Exposure Limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations

See overview table at www.euphrac.eu
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

16.3. Key literature references and sources for data*

EC 1907/2006 - REACH Regulation.

1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No. 1907/2006.

Regulation (EC) No. 1907/2006 (REACH), Annex II.

European Chemicals Agency (ECHA), C & L classification and labeling inventory.

European Chemicals Agency (ECHA), ECHA CHEM Registered substances.

OECD The Global Portal to Information on Chemical Substances (ChemPortal).

This is the one line: Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances.

Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water

Rigoletto (catalogue substances hazardous to water).

Substance name	Type	Source of supply
naphthalene CAS-No.: 91-20-3 EC-No.: 202-049-5	Acute inhalation toxicity LC_{50} (vapour); LC_{50}; EC_{50}; NOEC; LOEC	Source: European Chemicals Agency, http://echa.europa.eu/

16.4. Classification for mixtures and evaluation method used according to regulation (EC) No. 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412 - Harmful to aquatic life with long-lasting effects.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15*

Hazard statements	
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long-lasting effects.

16.6. Training advice

No data available.

16.7. Additional information

The above information exclusively describes the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet for storage, processing, transport, and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new mixture created.

The information given in this Safety Data Sheet

has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

*: Data changed compared with the previous version.