



# WOLF OFFICIALTECH 0W20 C5 RFE

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 02/07/2019 Revision date: 18/12/2024 Supersedes version of: 06/02/2023 Version: 2.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : WOLF OFFICIALTECH 0W20 C5 RFE  
Product code : 65635  
Type of product : WOLF  
Product group : Blend

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

##### Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use  
Industrial/Professional use spec : Non-dispersive use  
Used in closed systems  
Function or use category : Lubricants and additives

#### 1.3. Details of the supplier of the safety data sheet

WOLF OIL CORPORATION N.V.  
Georges Gilliotstraat, 52  
2620 Hemiksem, Antwerpen  
België  
T 0032 (0)3 870 00 00, F 0032 (0)3 870 00 99  
[msds@wolfoil.com](mailto:msds@wolfoil.com), <https://www.wolflubes.com/>

#### 1.4. Emergency telephone number

Emergency number : 0032 (0)3 870 00 00

| Country/Area | Organisation/Company                                          | Address                                       | Emergency number                                                                                       | Comment |
|--------------|---------------------------------------------------------------|-----------------------------------------------|--------------------------------------------------------------------------------------------------------|---------|
| Ireland      | National Poisons Information Centre<br>Beaumont Hospital      | PO Box 1297<br>Beaumont Road<br>9             | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |         |
| Israel       | Israel Poison Information Center<br>Rambam Health Care Campus | 6 Ha'Aliya Street<br>31096                    | +972 4 854 1900                                                                                        |         |
| Malta        | Medicines & Poisons Info Office                               | Mater Dei Hospital<br>Msida<br>MSD 2090 Msida | 112<br>+356 2545 6508                                                                                  |         |
| Sweden       | Giftinformationscentralen                                     | Box 60 500<br>171 76 Stockholm                | 112 – begär<br>Giftinformation<br>+46 10 456 6700 (Från<br>utlandet)                                   |         |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

##### Adverse physicochemical, human health and environmental effects

No additional information available

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### 2.2. Label elements

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

EUH-statements : EUH208 - Contains C14-16-18 Alkylphenol, molybdenum polysulphide long chain alkyl dithiocarbamate complex. May produce an allergic reaction.  
EUH210 - Safety data sheet available on request.

### 2.3. Other hazards

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Comments : The mineral oils in the product contain < 3% DMSO extract (IP 346)

| Name                                                             | Product identifier                                                           | %          | Classification according to Regulation (EC) No. 1272/2008 [CLP]      |
|------------------------------------------------------------------|------------------------------------------------------------------------------|------------|----------------------------------------------------------------------|
| 1-Decene, homopolymer, hydrogenated                              | CAS-No.: 157707-86-3<br>EC-No.: 500-393-3<br>REACH-no: 01-2119493949-12-0000 | 5 – 15     | Asp. Tox. 1, H304                                                    |
| C14-16-18 Alkylphenol                                            | CAS-No.: 1190625-94-5<br>EC-No.: 931-468-2<br>REACH-no: 01-2119498288-19     | 1 – 1.49   | Skin Sens. 1, H317<br>STOT RE 2, H373                                |
| molybdenum polysulphide long chain alkyl dithiocarbamate complex | EC-No.: 457-320-2<br>REACH-no: 01-0000019337-66                              | 0.1 – 0.15 | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412 |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation : Not expected to require first aid measures.  
First-aid measures after skin contact : Wash skin with mild soap and water.  
First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.  
First-aid measures after ingestion : Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.

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

Symptoms/effects after inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.  
Symptoms/effects after skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.  
Symptoms/effects after eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.  
Symptoms/effects after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water fog. Foam. Powder. Dry chemical product. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

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

No additional information available

### 5.3. Advice for firefighters

|                                |                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------------------|
| Precautionary measures fire    | : Exercise caution when fighting any chemical fire.                                             |
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers.                                        |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Protective equipment | : Wear suitable protective clothing and gloves. |
|----------------------|-------------------------------------------------|

#### For emergency responders

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Protective equipment | : Wear suitable protective clothing and gloves. |
|----------------------|-------------------------------------------------|

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

|                         |                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------|
| For containment         | : Impound and recover large spill by mixing it with inert granular solids.            |
| Methods for cleaning up | : Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr. |
| Other information       | : Spill area may be slippery. Use suitable disposal containers.                       |

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required.                 |
| Handling temperature          | : < 40 °C                                                                                                               |
| Hygiene measures              | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. |

### 7.2. Conditions for safe storage, including any incompatibilities

|                     |                                             |
|---------------------|---------------------------------------------|
| Storage temperature | : ≤ 40 °C                                   |
| Storage area        | : Store in dry, cool, well-ventilated area. |

#### Germany

|                               |                                                                |
|-------------------------------|----------------------------------------------------------------|
| Storage class (LGK, TRGS 510) | : LGK 10-13 - Other combustible and non-combustible substances |
|-------------------------------|----------------------------------------------------------------|

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### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

| molybdenum polysulphide long chain alkyl dithiocarbamate complex |                                                                  |
|------------------------------------------------------------------|------------------------------------------------------------------|
| EU - Indicative Occupational Exposure Limit (IOEL)               |                                                                  |
| Local name                                                       | Molybdenum polysulphide long chain alkyl dithiocarbamate complex |
| IOEL TWA                                                         | 10 mg/m <sup>3</sup>                                             |
| USA - ACGIH - Occupational Exposure Limits                       |                                                                  |
| ACGIH OEL TWA                                                    | 5 mg/m <sup>3</sup>                                              |
| ACGIH OEL STEL                                                   | 10 mg/m <sup>3</sup>                                             |

#### DNEL and PNEC

Additional information : 5 mg/m<sup>3</sup> for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

### 8.2. Exposure controls

#### Personal protection equipment

##### Personal protective equipment:

Safety glasses. Gloves.

##### Personal protective equipment symbol(s):



#### Eye and face protection

##### Eye protection:

Standard EN 166 - Personal eye-protection.

#### Skin protection

##### Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

##### Hand protection:

Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR) /

#### Respiratory protection

##### Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

## SECTION 9: Physical and chemical properties

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

|                |                   |
|----------------|-------------------|
| Physical state | : Liquid          |
| Colour         | : brown.          |
| Appearance     | : Oily liquid.    |
| Odour          | : Characteristic. |

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|                                                 |                                                               |
|-------------------------------------------------|---------------------------------------------------------------|
| Odour threshold                                 | : Not available                                               |
| Melting point                                   | : Not available                                               |
| Freezing point                                  | : Not available                                               |
| Boiling point                                   | : Not available                                               |
| Flammability                                    | : Not available                                               |
| Lower explosion limit                           | : Not available                                               |
| Upper explosion limit                           | : Not available                                               |
| Flash point                                     | : > 220 °C (ASTM D92)                                         |
| Auto-ignition temperature                       | : Not available                                               |
| Decomposition temperature                       | : Not available                                               |
| pH                                              | : Not available                                               |
| Viscosity, kinematic                            | : 38.5 mm²/s @40°C (ASTM D445)                                |
| Solubility                                      | : Slightly soluble, the product remains on the water surface. |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                               |
| Vapour pressure                                 | : Not available                                               |
| Vapour pressure at 50°C                         | : Not available                                               |
| Density                                         | : 0.84 g/ml @15°C (ASTM D4052)                                |
| Relative density                                | : Not available                                               |
| Relative vapour density at 20°C                 | : Not available                                               |
| Particle characteristics                        | : Not applicable                                              |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None under normal conditions.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal conditions.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

Strong oxidizers. acids. Bases.

### 10.6. Hazardous decomposition products

None under normal conditions.

## SECTION 11: Toxicological information

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

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| 1-Decene, homopolymer, hydrogenated (157707-86-3) |              |
|---------------------------------------------------|--------------|
| LD50 oral rat                                     | > 5000 mg/kg |
| LD50 dermal rat                                   | > 2000 mg/kg |

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|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1-Decene, homopolymer, hydrogenated (157707-86-3)</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| LC50 Inhalation - Rat                                                   | 5.2 mg/l/4h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>molybdenum polysulphide long chain alkyl dithiocarbamate complex</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| LD50 oral rat                                                           | > 2000 mg/kg (OECD 425)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| LD50 dermal rat                                                         | > 2000 mg/kg (OECD 402)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Skin corrosion/irritation                                               | : Not classified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>molybdenum polysulphide long chain alkyl dithiocarbamate complex</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Skin corrosion/irritation, rabbit                                       | Causes skin irritation (4 Hours, OECD 404 methode)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Serious eye damage/irritation                                           | : Not classified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>molybdenum polysulphide long chain alkyl dithiocarbamate complex</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Serious eye damage/irritation, rabbit                                   | Causes eye irritation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Respiratory or skin sensitisation                                       | : Skin sensitization: Not classified (The ingredient "C14-16-18 Alkyl Phenol" is an impurity of a substance present in the product. Based on tests performed on this substance, the skin sensitizer classification of the impurity "C14-16-18 Alkyl Phenol" is overruled.). Respiratory sensitization: Not classified (The ingredient "C14-16-18 Alkyl Phenol" is an impurity of a substance present in the product. Based on tests performed on this substance, the skin sensitizer classification of the impurity "C14-16-18 Alkyl Phenol" is overruled.). |
| <b>molybdenum polysulphide long chain alkyl dithiocarbamate complex</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Respiratory or skin sensitisation, Guinea pig                           | Yes (OPPTS 870.2600)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Germ cell mutagenicity                                                  | : Not classified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Carcinogenicity                                                         | : Not classified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Reproductive toxicity                                                   | : Not classified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>molybdenum polysulphide long chain alkyl dithiocarbamate complex</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Reproductive toxicity, male, female, oral, rat                          | Based on available data, the classification criteria are not met (OECD 421)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| STOT-single exposure                                                    | : Not classified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| STOT-repeated exposure                                                  | : Not classified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>C14-16-18 Alkylphenol (1190625-94-5)</b>                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| STOT-repeated exposure                                                  | May cause damage to organs through prolonged or repeated exposure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>molybdenum polysulphide long chain alkyl dithiocarbamate complex</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| NOAEL (oral, rat, 90 days)                                              | 1000 mg/kg bodyweight/day Daily dose (OECD 407)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| NOAEL (dermal, rat/rabbit, 90 days)                                     | 670 mg/kg bodyweight/day Daily dose (OECD 410)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Aspiration hazard                                                       | : Not classified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>WOLF OFFICIALTECH 0W20 C5 RFE</b>                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Viscosity, kinematic                                                    | 38.5 mm²/s @40°C (ASTM D445)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|                                                           |                  |
|-----------------------------------------------------------|------------------|
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

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| 1-Decene, homopolymer, hydrogenated (157707-86-3) |                                       |
|---------------------------------------------------|---------------------------------------|
| LC50 - Fish [1]                                   | > 1000 mg/l                           |
| LC50 - Other aquatic organisms [1]                | > 1000 mg/l scenedes quadricauda @3hr |
| EC50 72h - Algae [1]                              | > 1000 mg/l waterflea @2DY            |
| EC50 72h - Algae [2]                              | > 125 mg/l waterflea @21DY            |
| NOEC (acute)                                      | 125 mg/l @Waterflea @21DY             |
| NOEC chronic algae                                | > 1000 @scenedesmus quadriacauda @3hr |

| molybdenum polysulphide long chain alkyl dithiocarbamate complex |                                                          |
|------------------------------------------------------------------|----------------------------------------------------------|
| LC50 - Fish [1]                                                  | > 94.8 mg/l @96h; Oncorhynchus mykiss (OECD 203)         |
| LC50 - Fish [2]                                                  | > 670 mg/l @96h; Oncorhynchus mykiss (OECD 203)          |
| EC50 - Crustacea [1]                                             | 50 mg/l @48h; Daphnia magna (OECD 202)                   |
| EC50 72h - Algae [1]                                             | 14 mg/l @72h; Pseudokirchneriella subcapitata (OECD 201) |
| NOEC (acute)                                                     | 94.8 mg/l OECD 203 (Oncorhynchus mykiss, 96h)            |
| NOEC chronic crustacea                                           | 100 mg/l @21d; Daphnia Magna (OECD 211)                  |
| NOEC chronic algae                                               | 4.05 mg/l                                                |

### 12.2. Persistence and degradability

| WOLF OFFICIALTECH 0W20 C5 RFE |                                                        |
|-------------------------------|--------------------------------------------------------|
| Persistence and degradability | Not soluble in water, so only minimally biodegradable. |

| 1-Decene, homopolymer, hydrogenated (157707-86-3) |                         |
|---------------------------------------------------|-------------------------|
| Persistence and degradability                     | Rapidly degradable      |
| Biodegradation                                    | 2 % 28DY @ OECD TG 301D |

| C14-16-18 Alkylphenol (1190625-94-5) |                    |
|--------------------------------------|--------------------|
| Persistence and degradability        | Rapidly degradable |

| molybdenum polysulphide long chain alkyl dithiocarbamate complex |                                   |
|------------------------------------------------------------------|-----------------------------------|
| Persistence and degradability                                    | Not readily biodegradable.        |
| Biodegradation                                                   | 23 % @29d; 29,04 mg/L (OECD 301B) |

### 12.3. Bioaccumulative potential

| 1-Decene, homopolymer, hydrogenated (157707-86-3) |       |
|---------------------------------------------------|-------|
| Partition coefficient n-octanol/water (Log Kow)   | > 6.5 |

| molybdenum polysulphide long chain alkyl dithiocarbamate complex |                                                                   |
|------------------------------------------------------------------|-------------------------------------------------------------------|
| BCF - Fish [1]                                                   | 88 @8w; 0,05mg/l; Cyprinus carpio (OECD 305)                      |
| BCF - Fish [2]                                                   | < 7.4 @8w; 0,5mg/l; Cyprinus carpio (OECD 305)                    |
| Bioaccumulative potential                                        | Based on available data, the classification criteria are not met. |

### 12.4. Mobility in soil

| molybdenum polysulphide long chain alkyl dithiocarbamate complex |                                 |
|------------------------------------------------------------------|---------------------------------|
| Ecology - soil                                                   | Adsorbs to soil after emission. |

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### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                           |                                                                           |
|-------------------------------------------|---------------------------------------------------------------------------|
| Additional information                    | : Dispose in a safe manner in accordance with local/national regulations. |
| European List of Waste (LoW, EC 2000/532) | : 13 02 06* - synthetic engine, gear and lubricating oils                 |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

|               |                  |
|---------------|------------------|
| UN-No. (ADR)  | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN)  | : Not applicable |
| UN-No. (RID)  | : Not applicable |

### 14.2. UN proper shipping name

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (ADR)  | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN)  | : Not applicable |
| Proper Shipping Name (RID)  | : Not applicable |

### 14.3. Transport hazard class(es)

**ADR**

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (ADR) | : Not applicable |
|----------------------------------|------------------|

**IMDG**

|                                   |                  |
|-----------------------------------|------------------|
| Transport hazard class(es) (IMDG) | : Not applicable |
|-----------------------------------|------------------|

**IATA**

|                                   |                  |
|-----------------------------------|------------------|
| Transport hazard class(es) (IATA) | : Not applicable |
|-----------------------------------|------------------|

**ADN**

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (ADN) | : Not applicable |
|----------------------------------|------------------|

**RID**

|                                  |                  |
|----------------------------------|------------------|
| Transport hazard class(es) (RID) | : Not applicable |
|----------------------------------|------------------|

### 14.4. Packing group

|                      |                  |
|----------------------|------------------|
| Packing group (ADR)  | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN)  | : Not applicable |
| Packing group (RID)  | : Not applicable |

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### 14.5. Environmental hazards

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

### 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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Regulation (EU) 2021/821 for the control of dual-use items

Contains no substance subject to the Regulation (EU) 2021/821 for the control of dual-use items

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

##### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

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### National regulations

#### Germany

- Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
- Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

- SZW-lijst van kankerverwekkende stoffen : None of the components are listed
- SZW-lijst van mutagene stoffen : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed
- SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

#### Denmark

- Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

#### Poland

- Polish National Regulations : Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended).  
Act of 14 December 2012 on Waste (J. o L. 2013, item 322 as amended).  
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).  
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).  
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2019, item 382).  
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. of 3 July 2018, item 1286 as amended).  
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488).  
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166).  
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).  
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

## SECTION 16: Other information

| Indication of changes |               |          |
|-----------------------|---------------|----------|
| Section               | Changed item  | Comments |
|                       | Revision date | Modified |
|                       | SDS EU format | Modified |
|                       | Supersedes    | Modified |

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## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Indication of changes |                                                                              |          |
|-----------------------|------------------------------------------------------------------------------|----------|
| Section               | Changed item                                                                 | Comments |
| 3                     | Composition/information on ingredients                                       | Modified |
| 9                     | Density                                                                      | Modified |
| 9                     | Flash point                                                                  | Modified |
| 9                     | Viscosity, kinematic                                                         | Modified |
| 11.2.                 | Adverse health effects caused by endocrine disrupting properties             | Added    |
| 12.6                  | Adverse effects on the environment caused by endocrine disrupting properties | Added    |
| 13.1                  | European List of Waste (LoW, EC 2000/532)                                    | Added    |
| 15.1                  | Declaration number                                                           | Removed  |

| Abbreviations and acronyms: |                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------|
|                             | ACGIH: American Conference of Governmental Industrial Hygienists                                                     |
|                             | TWA: Time Weighted Average                                                                                           |
|                             | TLV: Threshold Limit Value                                                                                           |
|                             | ASTM: American Society for Testing and Materials                                                                     |
|                             | ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route                       |
|                             | RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail                                    |
|                             | ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin |
|                             | IMDG: International Maritime Dangerous Goods                                                                         |
|                             | ICAO: International Civil Aviation Organization                                                                      |
|                             | IATA: International Air Transport Association                                                                        |
|                             | STEL: Short Term Exposure Limit                                                                                      |
|                             | LD50: median Lethal Dose for 50% of subjects                                                                         |
|                             | ATE: acute toxicity estimate                                                                                         |
|                             | LC50: median Lethal Concentration for 50% of subjects                                                                |
|                             | EC50: concentration producing 50% effect                                                                             |

Other information

: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

| Full text of H- and EUH-statements: |                                                                                                                                     |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3                                                                   |
| Asp. Tox. 1                         | Aspiration hazard, Category 1                                                                                                       |
| EUH208                              | Contains C14-16-18 Alkylphenol, molybdenum polysulphide long chain alkyl dithiocarbamate complex. May produce an allergic reaction. |

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## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Full text of H- and EUH-statements: |                                                                    |
|-------------------------------------|--------------------------------------------------------------------|
| EUH210                              | Safety data sheet available on request.                            |
| H304                                | May be fatal if swallowed and enters airways.                      |
| H315                                | Causes skin irritation.                                            |
| H317                                | May cause an allergic skin reaction.                               |
| H373                                | May cause damage to organs through prolonged or repeated exposure. |
| H412                                | Harmful to aquatic life with long lasting effects.                 |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                              |
| Skin Sens. 1                        | Skin sensitisation, Category 1                                     |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2     |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.