

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 17-5-2018 Revision date: 4-12-2018 Supersedes: 17-5-2018 Version: 1.1

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

1.1. Product identifier

Product form : Mixture

Trade name : Off Road Nano Tech 4+ 10W-60

Product code : PM.40.33

Type of product : Lubricants

Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use

Use of the substance/mixture : Engine oil

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Putoline Oil
Dollegoorweg 15
7602 EC Almelo - Netherlands
T 0031 (0)546 81 81 65
vib@putoline.com

1.4. Emergency telephone number

| II II Zillor golloy | The Emorganity to opinion named | | | |
|---------------------|-------------------------------------------------------------------------------------------------|-----------------------------|------------------|---------|
| Country | Organisation/Company | Address | Emergency number | Comment |
| United Kingdom | National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital | Penarth CF64 2XX Cardiff | 0344 892 0111 | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]Mixtures/Substances: SDS EU 2015: According to Regulation (EU) 2015/830 (REACH Annex II)

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

EUH208 - Contains Calcium di(alkyl(C20-C24, even numbered) branched)-methyl

benzenesulfonate(722503-68-6). May produce an allergic reaction.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Highly refined mineral oils and additives.

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------|
| Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated | (CAS-No.) 134758-95-5 (EC-No.) 603-861-6 | 1 - 2,5 | Aquatic Chronic 4, H413 |
| Amines, polyethylenepoly-, reaction products with 1,3-dioxolan-2-one and succinic anhydride monopolyisobutenyl derivs | (CAS-No.) 147880-09-9 (EC-No.) 604-611-9 | 1 - 2,5 | Aquatic Chronic 4, H413 |
| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts | (CAS-No.) 68784-31-6 (EC-No.) 272-238-5 (REACH-no) 01-2119657973-23 | 0,1 - 2,5 | Eye Dam. 1, H318 Aquatic Chronic 2, H411 |

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| Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (CAS-No.) 68784-26-9 (EC-No.) 272-234-3 (REACH-no) 01-21195240 | 0,1 - 2,5 | Aquatic Chronic 4, H413 |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|
|-----------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|

Comments : The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Do not induce vomiting. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : No additional information available. Not expected to present a significant hazard under

anticipated conditions of normal use.

Symptoms/effects after ingestion : May result in aspiration into the lungs, causing chemical pneumonia.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid.

Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other

toxic gases.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour.

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 conditions : Keep container closed when not in use. Keep in a cool, well-ventilated place away from

heat.

Storage temperature : 0 - 40 °C

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended: $5~\text{mg/m}^3$ - ACGIH TLV (inhalable fraction).

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Materials for protective clothing:

Wear suitable protective clothing

Hand protection:

Protective gloves

| Туре | Material | Permeation | Thickness (mm) | Penetration | Standard |
|-----------------|----------|--------------------------------------|----------------|-------------|----------|
| Reusable gloves | \ // | 5 (> 240 minutes), 6 (> 480 minutes) | >=0,35 | | EN 374 |

Eye protection:

Safety glasses

| Туре | Use | Characteristics | Standard |
|----------------|---------|-----------------|----------|
| Safety glasses | Droplet | clear | EN 166 |

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):





Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: LiquidColour: Blue.Odour: characteristic.

Odour threshold : No data available pH : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : Not applicable

Freezing point : -36 °C - ASTM D5950 (pour point)

Boiling point : No data available

Flash point : 238 °C - ASTM D92 (COC)

Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available

Density : 0,857 kg/l (15 °C) - ASTM D4052

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Solubility : Water : Practically not miscible.

Log Pow : No data available

Viscosity, kinematic : 163 mm²/s (40 °C) - ASTM D7279

Viscosity, dynamic : No data available

Explosive properties : Presents no particular fire or explosion hazard.

Oxidising properties : No data available Explosive limits : No data available

9.2. Other information

VOC content : 0 %

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts violently with (strong) oxidizers.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

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

| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) | | |
|-----------------------------------------------------------------------------------------------------|--------------|--|
| LD50 oral rat | 2900 mg/kg | |
| LD50 dermal rabbit | > 5000 mg/kg | |
| Skin corrosion/irritation : Not classified | | |

: Not classified

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure : Not classified Aspiration hazard : Not classified

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Serious eye damage/irritation

Viscosity, kinematic 163 mm²/s (40 °C) - ASTM D7279

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term

adverse effects in the environment.

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) | | |
|-----------------------------------------------------------------------------------------------------|-------------------------------------|--|
| LC50 fish 1 | 4,4 mg/l (96h, Oncorhynchus mykiss) | |
| EC50 Daphnia 1 | 75 mg/l (48h, Daphnia magna) | |
| EC50 72h algae (1) 240 mg/l (72h, Scenedesmus subspicatus) | | |

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| according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EO) 2019/650 | | | |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Phenol, dodecyl-, sulfurized, carbonates, calc | henol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9) | | |
| LC50 fish 1 | > 1000 mg/l (OECD 203 method) | | |
| EC50 Daphnia 1 | > 1000 mg/l 48h (Daphnia magna) [OECD 202] | | |
| EC50 other aquatic organisms 1 | > 100 mg/l 96h (Crangon crangon) > 500 mg/l (OECD 201 method) > 1000 mg/l 96h (Pimephales promelas) [OECD 203] > 500 mg/l 96h (Pseudokirchneriella subcapitata) [OECD 201] | | |
| ErC50 (algae) | | | |
| NOEC (acute) | | | |
| NOEC chronic algae | | | |
| 12.2. Persistence and degradability | | | |
| Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9) | | | |
| Persistence and degradability Not readily biodegradable. | | | |
| Biodegradation 13,4 % Directive 67/548/CEE, Annex V, C.4.C. | | | |

12.3. Bioaccumulative potential

| | Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9) | | |
|---|---------------------------------------------------------------------------------|-----|--|
| ŀ | Bioconcentration factor (BCF REACH) | 2,2 | |
| | Log Pow | 9,5 | |

12.4. Mobility in soil

| Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9) | | ium salts, overbased (68784-26-9) |
|---------------------------------------------------------------------------------|----------------|---------------------------------------|
| | Ecology - soil | Product adsorbs little onto the soil. |

12.5. Results of PBT and vPvB assessment

| 2.5. Results of PBT and VPVB assessment | | | |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Component | | | |
| Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased (68784-26-9) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | | |

12.6. Other adverse effectsNo additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

European List of Waste (LoW) code : 13 02 05* - mineral-based non-chlorinated engine, gear and lubricating oils

SECTION 14: Transport information

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

| ADR | IMDG | IATA | ADN | RID | |
|------------------------------|----------------------------------------|----------------|----------------|----------------|--|
| 14.1. UN number | | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | |
| 14.2. UN proper shippin | g name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | |
| 14.3. Transport hazard o | 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | |
| 14.4. Packing group | 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | |
| 14.5. Environmental haz | 14.5. Environmental hazards | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable | |
| No supplementary information | No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

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Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

| The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006: | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| 3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 | Amines, polyethylenepoly-, reaction products with 1,3-dioxolan-2-one and succinic anhydride monopolyisobutenyl derivs - Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased - Amines, polyethylenepoly-, reaction products with succinic anhydride polyisobutenyl derivs., borated | |
| 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 | Amines, polyethylenepoly-, reaction products with 1,3-dioxolan-2-one and succinic anhydride monopolyisobutenyl derivs - Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased | |

Contains no substance on the REACH candidate list Contains no REACH Annex XIV substances

VOC content : 0 %

Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes: | | | |
|------------------------|--------------------------------------------------|----------|----------|
| Section | Changed item | Change | Comments |
| | Revision date | Added | |
| | Date of issue | Modified | |
| 3 | Composition/information on ingredients | Modified | |
| 4.1 | First-aid measures after ingestion | Modified | |
| 5.2 | Hazardous decomposition products in case of fire | Modified | |
| 10.3 | Possibility of hazardous reactions | Modified | |
| 13.1 | Waste treatment methods | Modified | |

| Abbreviations and acronyms: | | |
|-----------------------------|-------------------------------------------------------------------------------------------------|--|
| 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 | |
| ATE | Acute Toxicity Estimate | |
| BCF | Bioconcentration factor | |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 | |
| DMEL | Derived Minimal Effect level | |
| DNEL | Derived-No Effect Level | |

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| E0=0 | |
|-------|---------------------------------------------------------------------------------------------------|
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| vPvB | Very Persistent and Very Bioaccumulative |

| Full text of H- and EUH-statements: | | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|--|
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 | |
| Aquatic Chronic 4 | Hazardous to the aquatic environment — Chronic Hazard, Category 4 | |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 | |
| H318 | Causes serious eye damage. | |
| H411 | Toxic to aquatic life with long lasting effects. | |
| H413 | May cause long lasting harmful effects to aquatic life. | |
| EUH208 | Contains Calcium di(alkyl(C20-C24, even numbered) branched)-methyl benzenesulfonate(722503-68-6). May produce an allergic reaction. | |
| EUH210 | Safety data sheet available on request. | |

SDS EU (REACH Annex II)

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