



## SAFETY DATA SHEET

### NEXBASE™ 3043

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

##### 1.1. Product identifier

|                           |  |
|---------------------------|--|
| Product name              | NEXBASE™ 3043  |
| Chemical name             | Lubricating oils (petroleum), C20-C50, hydrotreated neutral oilbased |
| Product number            | ID 12553   |
| Internal identification   | 192508, 822600   |
| REACH registration number | 01-2119474889-13-XXXX  |
| REACH registration notes  | 01-2119474889-13-0000 / -0003  |

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

|                 |   |
|-----------------|---|
| Identified uses | Manufacture of substance (ES01), Distribution of substance (ES01a), Formulation & (re)packing of substances and mixtures (ES02), Uses in coatings (ES03a-c), Use in cleaning agents (ES04a-c), Use in oil and gas field drilling and production operations (ES05a-b), Metal working fluids/rolling oils (ES07a-b), Use as binders and release agents (ES10a-b), Use in agrochemicals (ES11b-c), Road and construction applications (ES15), Rubber production and processing (ES19), Polymer processing (ES21a-b), Use as a fuel (ES12b-c), Lubricants (ES6a-e), Laboratory chemical (ES17a-b), Mining chemicals (ES23), Water treatment chemicals (ES22a-b), Explosives manufacture & use (ES18b), Functional fluids (ES13a-c). |
|-----------------|---|

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

|                        |  |
|------------------------|--|
| Supplier               | Neste (Suisse) S.A.<br>16 Chemin des Coquelicots, 1214 Vernier, SWITZERLAND<br>Tel. +41 22 561 8000<br>SDS@neste.com (chemical safety) |
| EU Only Representative | Neste Oyj, Keilaranta 21, Espoo, P.O.B. 95, FIN-00095 NESTE, FINLAND.  |

##### 1.4. Emergency telephone number

National emergency telephone +358-9-471 977, +358-9-4711, Poison Information Centre number

#### SECTION 2: Hazards identification

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

###### Classification (EC 1272/2008)

|                       |                    |
|-----------------------|--------------------|
| Physical hazards      | Not Classified     |
| Health hazards        | Asp. Tox. 1 - H304 |
| Environmental hazards | Not Classified     |

##### 2.2. Label elements

**NEXBASE™ 3043****Hazard pictograms**

|                                 |  |
|---------------------------------|--|
| <b>Signal word</b>              | Danger   |
| <b>Hazard statements</b>        | H304 May be fatal if swallowed and enters airways.   |
| <b>Precautionary statements</b> | P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.<br>P331 Do NOT induce vomiting.<br>P501 Dispose of contents/ container in accordance with local regulations. |
| <b>Contains</b>                 | Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based   |

**2.3. Other hazards**

|                      |   |
|----------------------|---|
| <b>Other hazards</b> | Oil mist: May cause eye and respiratory system irritation. Repeated exposure may cause skin dryness or cracking. Risk of soil and ground water contamination. |
|----------------------|---|

**SECTION 3: Composition/information on ingredients****3.1. Substances**

|   |   |
|---|---|
| <b>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based</b> | <b>100 %</b>                                |
| CAS number: 72623-87-1  | EC number: 276-738-4                        |
|   | REACH registration number: 01-2119474889-13 |
| <b>Classification</b>   |   |
| Asp. Tox. 1 - H304  |   |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

|                                  |  |
|----------------------------------|--|
| <b>Product name</b>              | NEXBASE™ 3043  |
| <b>Chemical name</b>             | Lubricating oils (petroleum), C20-C50, hydrotreated neutral oilbased |
| <b>REACH registration number</b> | 01-2119474889-13-XXXX  |
| <b>REACH registration notes</b>  | 01-2119474889-13-0000 / -0003  |
| <b>Ingredient notes</b>          | A petroleum product. DMSO < 3% (IP 346).                             |

**SECTION 4: First aid measures****4.1. Description of first aid measures**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at ambient temperature. If spray/mist has been inhaled, proceed as follows. Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist. |
| <b>Ingestion</b>    | Do not induce vomiting. Get medical attention.   |
| <b>Skin contact</b> | Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing. Contact with hot product can cause serious thermal burns.  |
| <b>Eye contact</b>  | Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists after washing.  |

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

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**General information** Oil mist: May cause eye and respiratory system irritation. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

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

**Notes for the doctor** Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Water spray, foam, dry powder or carbon dioxide.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

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

**Specific hazards** Not known.

**Hazardous combustion products** Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

**Personal precautions** Avoid breathing mist. Wear adequate protective equipment at all operations.

**For emergency responders** Prevent unauthorized access. Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharge.

### 6.2. Environmental precautions

**Environmental precautions** Avoid release to the environment. Stop leak if safe to do so. Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air). Risk of soil and ground water contamination.

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

**Methods for cleaning up** Immediately start clean-up of the liquid and contaminated soil. Large spills should be collected mechanically (remove by pumping) for disposal. Small Spillages: Absorb spillage with sand or other inert absorbent.

### 6.4. Reference to other sections

**Reference to other sections** For personal protection, see Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharges. Use only in well-ventilated areas. Avoid inhalation of vapours and contact with skin and eyes. Use personal protective equipment and/or local ventilation when needed. Do not eat, drink or smoke when using this product. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

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

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**Storage precautions** Store in accordance with local regulations. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Take precautions against leakage by constructing collecting pools and sewerage systems as well as by surfacing the loading and unloading stations. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from light. Suitable container materials: Stainless steel. Mild steel.

### 7.3. Specific end use(s)

**Specific end use(s)** Not known.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

Oil mist: 5 mg/m<sup>3</sup> (8h) HTP 2018/FIN.

5 mg/m<sup>3</sup>, TWA PEL (OSHA) 5 mg/m<sup>3</sup>, TLV-TWA (ACGIH) 10 mg/m<sup>3</sup>, TLV-STEL (ACGIH).

**PNEC** Not available.

#### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (CAS: 72623-87-1)

**DNEL** Workers - Inhalation; Long term local effects: 5,4 mg/m<sup>3</sup>, (8h), Aerosol  
 Consumer - Inhalation; Long term local effects: 1,2 mg/m<sup>3</sup>, (24h), Aerosol  
 Available hazard data do not enable the derivation of a DNEL for dermal irritant effects.  
 Available hazard data do not support the need for a DNEL to be established for other health effects.

### 8.2. Exposure controls

**Appropriate engineering controls** Use only in well-ventilated areas. Use personal protective equipment and/or local ventilation when needed.

**Eye/face protection** Tight-fitting safety glasses.

**Hand protection** Wear protective gloves. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Nitrile rubber. Change protective gloves regularly. Protective gloves according to standards EN 420 and EN 374.

**Other skin and body protection** Protective clothing when needed. Wear anti-static protective clothing if there is a risk of ignition from static electricity.

**Respiratory protection** Oil mist: Combination filter, type A2/P2. Filter device could be used maximum 2 hours at a time. Filter devices must not be used in conditions where the oxygen level is low (< 19 vol.-%). At high concentrations a breathing apparatus must be used (self-contained or fresh air hose breathing apparatus). Filter must be changed often enough. Respirator according to standard EN 140.

**Environmental exposure controls** Store in a demarcated bunded area to prevent release to drains and/or watercourses.

## SECTION 9: Physical and chemical properties

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

**Appearance** Liquid.

**Colour** Colourless. Clear.

**Odour** Almost odourless.

**Odour threshold** -

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|   |   |
|---|---|
| <b>pH</b>   | -   |
| <b>Melting point</b>                                | Pour point ≤ -12°C (ASTM D-97)  |
| <b>Initial boiling point and range</b>              | 350-600°C   |
| <b>Flash point</b>                                  | > 220°C (ASTM D-92).  |
| <b>Upper/lower flammability or explosive limits</b> | -   |
| <b>Vapour pressure</b>                              | < 0,1 hPa @ 20°C  |
| <b>Vapour density</b>                               | -   |
| <b>Relative density</b>                             | 0,82-0,84 @ 15°C (ASTM D-4052).   |
| <b>Solubility(ies)</b>                              | Insoluble in water.   |
| <b>Partition coefficient</b>                        | log Kow: > 6  |
| <b>Auto-ignition temperature</b>                    | -   |
| <b>Decomposition Temperature</b>                    | -   |
| <b>Viscosity</b>                                    | Kinematic viscosity typical value 20 mm <sup>2</sup> /s @ 40°C (ASTM D-445).                            |
| <b>Explosive properties</b>                         | Not considered to be explosive.   |
| <b>Oxidising properties</b>                         | Does not meet the criteria for classification as oxidising.   |
| <b>9.2. Other information</b>                       |   |
| <b>Other information</b>                            | Melting/pour point: ≤ - 12°C Dynamic viscosity 39,4 mPa s @ +20°C Dynamic viscosity ~ 50 mPa s @ + 16°C |

**SECTION 10: Stability and reactivity****10.1. Reactivity**

**Reactivity** There are no known reactivity hazards associated with this product.

**10.2. Chemical stability**

**Stability** Stable at normal ambient temperatures and when used as recommended.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** No potentially hazardous reactions known.

**10.4. Conditions to avoid**

**Conditions to avoid** Keep away from heat, sparks and open flame.

**10.5. Incompatible materials**

**Materials to avoid** Strong acids. Oxidising agents.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** Does not decompose when used and stored as recommended.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

**Toxicological effects** Based on available data the classification criteria are not met.

**NEXBASE™ 3043****Skin corrosion/irritation****Skin corrosion/irritation**

Based on available data the classification criteria are not met. (OECD 404) Repeated exposure may cause skin dryness or cracking.

**Serious eye damage/irritation****Serious eye damage/irritation**

Based on available data the classification criteria are not met. (OECD 405) Oil mist: May cause eye and respiratory system irritation.

**Skin sensitisation****Skin sensitisation**

Based on available data the classification criteria are not met. (OECD 406)

**Germ cell mutagenicity****Genotoxicity - in vitro**

Based on available data the classification criteria are not met. (OECD 471, 473, 476)

**Genotoxicity - in vivo**

Based on available data the classification criteria are not met. (OECD 474)

**Carcinogenicity****Carcinogenicity**

Based on available data the classification criteria are not met. (OECD 451, 453)

**IARC carcinogenicity**

Not listed.

**NTP carcinogenicity**

Not listed.

**Reproductive toxicity****Reproductive toxicity - fertility**

Based on available data the classification criteria are not met. (OECD 421)

**Reproductive toxicity - development**

Based on available data the classification criteria are not met. (OECD 414)

**Specific target organ toxicity - single exposure****STOT - single exposure**

Not classified as a specific target organ toxicant after a single exposure.

**Specific target organ toxicity - repeated exposure****STOT - repeated exposure**

Based on available data the classification criteria are not met. (OECD 408, 410, 411, 412, 453)

**Aspiration hazard****Aspiration hazard**

Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

**Toxicological information on ingredients.****Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based****Acute toxicity - oral****Notes (oral LD<sub>50</sub>)**

LD<sub>50</sub> > 5000 mg/kg, Oral, Rat (OECD 401)

**Acute toxicity - dermal****Notes (dermal LD<sub>50</sub>)**

LD<sub>50</sub> > 2000 mg/kg, Dermal, Rabbit (OECD 402)

**Acute toxicity - inhalation****Notes (inhalation LC<sub>50</sub>)**

LC<sub>50</sub> > 5,53 mg/l, Inhalation, Rat (OECD 403)

**SECTION 12: Ecological information****12.1. Toxicity****Toxicity**

Based on available data the classification criteria are not met.

**Ecological information on ingredients.**

**NEXBASE™ 3043****Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based****Acute aquatic toxicity**

**Acute toxicity - fish** LL<sub>50</sub>, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)  
NOEL, 96 hours: ≥ 100 mg/l,  
WAF (OECD 203)

**Acute toxicity - aquatic invertebrates** EL<sub>50</sub>, 48 hours: > 10000 mg/l, Daphnia magna  
NOEL, 48 - 96 hours: ≥ 10000 mg/l,  
LL<sub>50</sub>, 24 - 96 hours: > 10000 mg/l,  
WAF (OECD 202)

**Acute toxicity - aquatic plants** NOEL, 72 hours: ≥ 100 mg/l, Pseudokirchneriella subcapitata  
WAF (OECD 201)

**Acute toxicity - microorganisms** NOEL, 10 minutes: > 1,93 mg/l, Micro-organisms (wastewater sludge)  
(DIN 38412, DIN38409)

**Chronic aquatic toxicity**

**Chronic toxicity - fish early life stage** NOELR, 14 days: ≥ 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Chronic toxicity - aquatic invertebrates** NOEL, 21 days: 10 mg/l, Daphnia magna  
WAF (OECD 211)

**12.2. Persistence and degradability**

**Persistence and degradability** The product is slowly degradable.

**Stability (hydrolysis)** No significant reaction in water.

**Biodegradation** Non-rapidly degradable  
(OECD 301B)

**12.3. Bioaccumulative potential**

**Bioaccumulative potential** Possibly bioaccumulative.

**Partition coefficient** log Kow: > 6

**12.4. Mobility in soil**

**Mobility** The product is insoluble in water. Mainly non-volatile. Product can penetrate soil until reaching the surface of ground water. The product contains substances which are bound to particulate matter and are retained in soil.

**12.5. Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB. (Anthracene < 0,1 %)

**12.6. Other adverse effects****SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Dispose of this material and its container to hazardous or special waste collection point. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Waste packaging should be collected for reuse or recycling.

**NEXBASE™ 3043****SECTION 14: Transport information**

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). No DOT label requirement noted.

**14.1. UN number**

UN No. (ADR/RID) -

**14.2. UN proper shipping name**

Proper shipping name (ADR/RID) -

**14.3. Transport hazard class(es)**

ADR/RID class -

**14.4. Packing group**

ADR/RID packing group -

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant  
No.

**14.6. Special precautions for user**

Not applicable.

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Noxious liquid, NF, (5) n.o.s. (NEXBASE 3043, contains Iso- and cyclo-alkanes C12+). Ship type: 2 Cat Y According to MARPOL: "Non-solidifying substance"

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**National regulations** US Federal: Not listed under CERCLA or Section 302 or Section 313 of EPCRA. To the best of our knowledge, this product does not contain any substances listed under California Proposition 65.

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
Commission Regulation (EU) No 2015/830 of 28 May 2015.  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

**15.2. Chemical safety assessment**

A chemical safety assessment has been carried out.

**Inventories****EU - EINECS/ELINCS**

Yes

**Canada - DSL/NDSL**

Yes  
DSL



**NEXBASE™ 3043****US - TSCA**

Yes

To the best of our knowledge, the product components are not listed on any US national/regional regulatory lists except the TSCA inventory.

**Australia - AICS**

Yes

**Japan - ENCS**

Yes

**Korea - KECI**

Yes

**China - IECSC**

Yes

**Philippines – PICCS**

Yes

**New Zealand - NZIOC**

Yes

**Other** Inventories of Taiwan and Switzerland.

**SECTION 16: Other information**

|   |   |
|---|---|
| <b>Abbreviations and acronyms used in the safety data sheet</b> | PEL = Permissible Exposure Limit<br>OSHA = Occupational Safety and Health Administration<br>NTP = National Toxicology Program   |
| <b>Key literature references and sources for data</b>           | Regulations, databases, literature, own research. CONCAWE Report 10/14: Hazard classification and labelling of petroleum substances in the EEA - 2014. Chemical Safety Report Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based, 2017. |
| <b>Revision comments</b>  | Updated, sections: 3.2 -> 3.1.  |
| <b>Revision date</b>  | 16/06/2020  |
| <b>Supersedes date</b>  | 17/10/2017  |
| <b>SDS number</b>   | 5593  |
| <b>Hazard statements in full</b>                                | H304 May be fatal if swallowed and enters airways.  |