SAFETY DATA SHEET
NEXBASE™ 3050

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

1.1. Product identifier

Product name: NEXBASE™ 3050
Chemical name: Lubricating oils (petroleum), C20-C50, hydrotreated neutral oilbased
Product number: ID 12554
Internal Identification: 192504
REACH registration number: 01-2119474889-13-0000

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

Identified uses: Manufacture of substance Distribution of substance Formulation & (re)packing of substances and mixtures Uses in coatings Use in cleaning agents Use in oil and gas field drilling and production operations Metal working fluids/rolling oils Use as binders and release agents Use in agrochemicals Road and construction applications Rubber production and processing Polymer processing Lubricants Laboratory chemical Mining chemicals Water treatment chemicals Explosives manufacture & use Functional fluids

1.3. Details of the supplier of the safety data sheet

Supplier: Neste (Suisse) S.A.
16 Chemin des Coquelicots, 1214 Vernier, SWITZERLAND
Tel. +41 22 561 8000
SDS@neste.com (chemical safety)

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: Not Classified
Environmental hazards: Not Classified

2.2. Label elements

Hazard statements: NC Not Classified
Supplemental label information: EUH210 Safety data sheet available on request.

2.3. Other hazards

Other hazards: Oil mist: May cause eye and respiratory system irritation. Repeated exposure may cause skin dryness or cracking. Risk of soil and ground water contamination.
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SECTION 3: Composition/information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Substance Description</th>
<th>Percentage</th>
<th>CAS number</th>
<th>EC number</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based</td>
<td>100 %</td>
<td>72623-87-1</td>
<td>276-738-4</td>
<td>01-2119474889-13-XXXX</td>
</tr>
</tbody>
</table>

Classification
Not Classified

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

Product name
NEXBASE™ 3050

Chemical name
Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based

REACH registration number
01-2119474889-13-0000

Ingredient notes
A petroleum product. DMSO < 3% (IP 346).

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation
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.

Ingestion
Do not induce vomiting. Get medical attention.

Skin contact
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.

Eye contact
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

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 (CO2). Carbon monoxide (CO).

5.3. Advice for firefighters

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**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

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

**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/m³ (8h) HTP 2018/FIN.

5 mg/m³, TWA PEL (OSHA). 5 mg/m³, TLV-TWA (ACGIH). 10 mg/m³, TLV-STEL (ACGIH).

**DNEL**

DNEL derivation is not justified.

**PNEC**

Not available.

#### 8.2. Exposure controls
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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
Take precautions against leakage by constructing collecting pools and sewerage systems as well as by surfacing the loading and unloading stations.

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
-

pH
-

Melting point
(Melting/pour point) ≤ -12°C (ASTM D-97)

Initial boiling point and range
370...600°C

Flash point
> 220°C (ASTM D-92).

Upper/lower flammability or explosive limits
-

Vapour pressure
< 0,1 hPa @ 20°C

Vapour density
-

Relative density
0,82-0,84 @ 15°C (ASTM D-4052)

Solubility(ies)
Insoluble in water.

Partition coefficient
log Kow: > 6

Auto-ignition temperature
-

Decomposition Temperature
-

Viscosity
Kinematic viscosity 25 mm²/s @ 40°C typical value (ASTM D-445).

Explosive properties
Not considered to be explosive.

Oxidising properties
Does not meet the criteria for classification as oxidising.

9.2. Other information
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Other information
Melting/pour point: ≤ -12°C Dynamic viscosity 50,8 mPa s @ +20°C Dynamic viscosity ~50 mPa s @ temp. min. +21°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.

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

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)
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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  Based on available data the classification criteria are not met. 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 LD₅₀)  LD₅₀ > 5000 mg/kg, Oral, Rat (OECD 401)

Acute toxicity - dermal
Notes (dermal LD₅₀)  LD₅₀ > 2000 mg/kg, Dermal, Rabbit (OECD 402)

Acute toxicity - inhalation
Notes (inhalation LC₅₀)  LC₅₀ > 5,53 mg/l, (4h), 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.

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

Acute aquatic toxicity
Acute toxicity - fish  LL₅₀, 96 hours: > 100 mg/l, Fish
NOEL, 96 hours: >= 100 mg/l, Fish (OECD 203)

Acute toxicity - aquatic invertebrates  EL₅₀, 24-48 hours: > 10000 mg/l,
NOEL, 48-96 hours: > 10000 mg/l,
LL₅₀, 24-96 hours: > 10000 mg/l, (OECD 202)

Acute toxicity - aquatic plants  NOEL, 72 hours: >= 100 mg/l, Algae
(OECD 201)

Acute toxicity - microorganisms  NOEL, 10 minutes: > 1,93 mg/l,
(OECD 201)

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

12.2. Persistence and degradability
Persistence and degradability  The product is slowly degradable.
Stability (hydrolysis)  No significant reaction in water.
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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.

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
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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Noxious liquid, NF (5) n.o.s. (NEXBASE 3050, 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

15.2. Chemical safety assessment
A chemical safety assessment has been carried out. Based on available data the classification criteria are not met. Exposure scenarios are not required.

Inventories
EU - EINECS/ELINCS
Yes

Canada - DSL/NDSL
Yes
DSL

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
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Abbreviations and acronyms used in the safety data sheet

- DNEL = Derived No-Effect Level
- PNEC = Predicted No-Effect Concentration
- PEL = Permissible Exposure Limit
- STEL = Short-Term Exposure Limit
- TLV = Threshold Limit Value
- TWA = Time-Weighted Average
- OSHA = Occupational Safety and Health Administration
- ACGIH = American Conference of Governmental Industrial Hygienists
- IARC = International Agency for Research on Cancer
- NTP = National Toxicology Program
- WAF = Water Accommodated Fraction
- SU = Sector of Use
- PROC = Process Category
- ERC = Environmental Release Category

Key literature references and sources for data


Revision comments

Updated, sections: 3.2. -> 3.1.

Revision date

02/07/2020

Supersedes date

17/10/2017

SDS number

5625

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