



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 Use as an intermediate 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 See the PROC/SU/ERC codes of the identified uses in Section 16.
------------------------	---

1.3. Details of the supplier of the safety data sheet

Supplier	Neste N.V. Industriezone Ravenshout 7304, Industrieweg 154, B-3583 Beringen, BELGIUM Tel. +32 11 459 511 SDS@neste.com (chemical safety)
-----------------	---

1.4. Emergency telephone number

National emergency telephone number	+358-9-471 977, +358-9-4711, Poison Information Centre/HUS, P.O.B 340 (Tukholmankatu 17) 00029 HUS (Helsinki, Finland)
--	--

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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.
----------------------	--

NEXBASE® 3050**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	100.0%
CAS number: 72623-87-1	EC number: 276-738-4
	REACH registration number: 01-2119474889-13-XXXX
Classification	
Not Classified	

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

Other information 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.

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

Notes for the doctor Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

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 ₂). 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**

NEXBASE® 3050

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

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.
----------------------------	---

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 2014/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

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.

NEXBASE® 3050

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. Respirators according to standards EN 140 and EN 141.
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) $\leq -12^{\circ}\text{C}$ (ASTM D-97)
Initial boiling point and range	370...600°C
Flash point	$> 220^{\circ}\text{C}$ (ASTM D-92).
Upper/lower flammability or explosive limits	-
Vapour pressure	$< 0,1 \text{ hPa @ } 20^{\circ}\text{C}$
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 mm ² /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

Other information	Melting/pour point: $\leq -12^{\circ}\text{C}$ Dynamic viscosity 50,8 mPa s @ $+20^{\circ}\text{C}$ Dynamic viscosity ~ 50 mPa s @ temp. min. $+21^{\circ}\text{C}$
--------------------------	--

SECTION 10: Stability and reactivity

10.1. Reactivity

NEXBASE® 3050

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

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

NEXBASE® 3050

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 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,
(DIN 38412, DIN38409)

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.

Biodegradation Non-rapidly degradable
(OECD 301B)

12.3. Bioaccumulative potential

Bioaccumulative potential Possibly bioaccumulative.

Partition coefficient log Kow: > 6

NEXBASE® 3050

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).

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

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 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

NEXBASE® 3050

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 453/2010 of 20 May 2010.

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. 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 - MITI

Yes

Korea - KECI

Yes

China - IECSC

Yes

Philippines – PICCS

Yes

New Zealand - NZIOC

Yes

Other

Inventories of Taiwan and Switzerland.

SECTION 16: Other information

NEXBASE® 3050

Abbreviations and acronyms used in the safety data sheet	<p>DNEL = Derived No-Effect Level PNEC = Predicted No-Effect Concentration PEL = Permissible Exposure Limit STEL = Short-Term Exposure Limit TLV = Treshold 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</p>
Key literature references and sources for data	Regulations, databases, literature, own research. CONCAWE Report 10/14: Hazard classification and labelling of petroleum substances in the EEA - 2014. Chemical Safety Report Other Lubricant Base Oils, 2012.
Revision comments	This is first issue. (new SDS software has been introduced)
Revision date	30/05/2016
Supersedes date	05/11/2015
SDS number	5625
Use Descriptor Codes, Industrial uses	<p>Manufacture of substance, (PROC 1, 2, 3, 4, 8a/b, 15; SU 3, 8, 9; ERC 1), Use as an intermediate, (PROC 1, 2, 3, 4, 8a/b, 15; SU 3, 8, 9; ERC 6a), Distribution of substance,, (PROC 1, 2, 3, 4, 8a/b, 9, 15; SU 3; ERC 4, 5, 6a/b/c/d, 7), Formulation & (re)packing of substances and mixtures,, (PROC 1, 2, 3, 4, 5, 8a/b, 9, 14, 15; SU 3, 10; ERC 2), Uses in coatings, (PROC 1, 2, 3, 4, 5, 7, 8a/b, 10, 13, 15; SU 3; ERC 4), Use in cleaning agents, (PROC 1, 2, 3, 4, 7, 8a/b, 10, 13, SU 3; ERC 4), Use in oil and gas field drilling and production operations, (PROC 1, 2, 3, 4, 8a/b; SU 3; ERC 4), Metal working fluids/rolling oils, (PROC 1, 2, 3, 4, 5, 7, 8a/b, 9, 10, 13, 17; SU 3; ERC 4), Use as binders and release agents, (PROC 1, 2, 3, 4, 6, 7, 8b, 10, 13, 14; SU 3; ERC 4), Rubber production and processing, (PROC 1, 2, 3, 4, 5, 6, 7, 8a/b, 9, 13, 14, 15, 21; SU 3, 10, 11; ERC 4, 6d), Polymer processing, (PROC 1, 2, 3, 4, 5, 6, 8a/b, 9, 13, 14, 21; SU 10; ERC 4), Lubricants, (PROC 1, 2, 3, 4, 7, 8a/b, 9, 10, 13, 17, 18; SU 3; ERC 4, 7), Use in laboratories, (PROC 10, 15, SU 3; ERC 4), Mining chemicals, (PROC 1, 2, 3, 4, 5, 8a/b, 9; SU 10; ERC 4), Water treatment chemicals, (PROC 1, 2, 3, 4, 8a/b, 13; SU 10; ERC 4), Functional fluids, (PROC 1, 2, 3, 4, 8a/b, 9; SU 3; ERC 7)</p>
Use Descriptor Codes, Professional uses	<p>Uses in coatings, (PROC 1, 2, 3, 4, 5, 8a/b, 10, 11, 13, 15, 19; SU 22; ERC 8a/d), Use in cleaning agents, (PROC 1, 2, 3, 4, 8a/b, 10, 11, 13; SU 22; ERC 8a/d), Use in oil and gas field drilling and production operations, (PROC 1, 2, 3, 4, 8a/b; SU 22; ERC 8d), Metal working fluids/rolling oils, (PROC 1, 2, 3, 5, 8a/b, 9, 10, 11, 13, 17; SU 22; ERC 8a/d), Use as binders and release agents, (PROC 1, 2, 3, 4, 6, 8a/b, 10, 11, 14; SU 22; ERC 8a/d), Use in agrochemicals, (PROC 1, 2, 4, 8a/b, 11, 13; SU 22; ERC 8a/d), Road and construction applications, (PROC 8a/b, 9, 10, 11, 13; SU 22; ERC 8d/f), Polymer processing, (PROC 1, 2, 6, 8a/b, 14, 21; SU 22; ERC 8a/d), Lubricants, (PROC 1, 2, 3, 4, 8a/b, 9, 10, 11, 13, 17, 18, 20; SU 22; ERC (low release) 9a/b; ERC (high release) 8a/d), Use in laboratories, (PROC 10, 15, SU 22; ERC 8a), Water treatment chemicals, (PROC 1, 2, 3, 4, 8a/b, 13; SU 22; ERC 8f), Explosives manufacture & use, (PROC 1, 3, 5, 8a/b; SU 22; ERC 8e), Functional fluids, (PROC 1, 2, 3, 8a, 9, 20; SU 22; ERC 9a/b)</p>

NEXBASE® 3050

**Use Descriptor Codes,
Consumer uses**

Uses in coatings, (PC 1, 4, 8, 9a/b/c, 15, 18, 23, 24, 31, 34; SU 21; ERC 8a/d), Use in cleaning agents, (PC 3, 4, 8, 9a, 24, 35, 38; SU 21; ERC 8a/d), Use in agrochemicals, (PC 12, 27; SU 21; ERC 8a/d), Lubricants, (PC 1, 24, 31; SU 21; ERC (low release) 9a/b; ERC (high release) 8a/d), Functional fluids, (PC 16, 17; SU 21; ERC 9a/b)