

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation

1.1.1 Product name
NEXBASE® 3043

1.1.2 Product code
192508, 822600

1.2 Use of the substance/preparation

1.2.1 Expressed in writing
baseoil

1.3 Company/undertaking identification

1.3.1 Supplier
Neste Oil N.V.

1.3.2 Contact information

P.O.Box Industrieweg 154
Postcode and post office B-3583 Beringen, BELGIUM
Telephone +32 11 459 511
Telefax +32 11 459 512
Business ID BE451.251.225
Email nexbase@nesteoil.com

1.3.3 Identification of the foreign producer

Neste Oil Oyj
P.O.B. 95 FIN-00095 NESTE OIL
FINLAND
Telephone: +358-10 45811
Telefax: +358-10 45 84442
Business ID: 1852302-9
Email: KTTR@nesteoil.com (chemical safety)

1.4 Emergency telephone

1.4.1 Telephone number, name and address
Neste Oil Oyj +358-10 45 82267
Poison Information Centre +358-9-471 977, +358-9-4711
Antifgifcentrum - Centre Antipoison, tel. +32 70 245 245, Brussel, Belgium

2. HAZARDS IDENTIFICATION

FIRE AND EXPLOSION HAZARD: The product is not classified as dangerous.

HEALTH HAZARD: The product is not classified as dangerous. Prolonged or repeated skin contact may irritate the skin and produce dermatitis. Oil mist may irritate the eyes and the respiratory tract.

ENVIRONMENTAL HAZARD: The product is not classified as dangerous. Risk of soil and ground water contamination.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Hazardous components

3.1.1 CAS number	3.1.2 Chemical name of the substance	3.1.3 Concentration	3.1.4 Warning symbol, R phrases and other information
72623-87-1	Lubricating oils (petroleum), C20-C50, 100 % hydrotreated neutral oil-based		-

3.1.7 Other information

A petroleum product. DMSO extract < 3 w-% (IP 346)

4. FIRST AID MEASURES

4.1 Additional advice

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4.2 Inhalation

Obtain medical attention if oil mist is inhaled (risk of chemicals pneumonitis).

4.3 Skin contact

Remove contaminated clothing. Wash the skin with plenty of water and soap. If skin irritation persists, consult a physician. Remove contaminated clothing and equipment.

4.4 Eye contact

Rinse immediately with plenty of water, also under the eyelids. Continue irrigation for several minutes while moving eyes to extreme positions. If eye irritation persists, consult a specialist.

4.5 Ingestion

DO NOT INDUCE VOMITING. Consult a physician (risk of aspiration into the lungs especially if nausea or irritation occurs).

4.6 Information to doctor or other trained persons giving first aid

If nausea or irritation do not appear after ingestion, give 50...100 g medicinal carbon in water slurry.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Foam, dry powder, carbon dioxide.

5.2 Extinguishing media which must not be used for safety reasons

Water.

5.4 Special protection equipment for firefighters

Self-contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Wear adequate protective equipment at all operations.
Take measures to prevent the build up of electrostatic charge

6.2 Environmental precautions

Try to restrict the release and prevent spread of the product into the environment. Collect liquid before it spreads into drains, the ground and waters.

6.3 Clean-up methods

Immediately start clean-up of the liquid and contaminated soil. Small amounts can be collected using absorbent material. Product waste should be disposed in accordance with item 13.

6.4 Further information

In case of spill, immediately contact local authorities.

7. HANDLING AND STORAGE

7.1 Handling

Provide sufficient ventilation when handling the product. Wear protective equipment when needed. Wear safety shoes while handling containers.

Take measures to prevent the build up of electrostatic charge

7.2 Storage

Keep tightly closed in a dry, cool and well-ventilated place. Protect from light. Take precautionary measures to prevent product spills into drains, the ground or waters.

Store retail batches in tightly sealed, labelled containers which are impermeable to hydrocarbons.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

8.1.1 Threshold limits

Oil mist 5 mg/m³ (8 h)
HTP 2009 / FIN

8.1.2 Other information on limit values

The occupational exposure monitoring method: SFS-EN 689, Niosh Method 5026

8.1.3 Limit values in other countries

Oil mist: 5 mg/m³, TLV-TWA, (ACGIH)

8.2 Exposure controls

8.2.1 Occupational exposure controls

Ensure adequate ventilation. Use personal protective equipment and/or local ventilation when needed. Avoid skin contact and inhalation of oil mist. Thoroughly clean contaminated skin and change dirty clothing and equipment.

8.2.1.1 Respiratory protection

Oil mist: respirator (combined particle and organic vapour filter, type A2/P2).

8.2.1.2 Hand protection

Protective gloves (PVC, nitrile rubber). Change protective gloves regularly.

8.2.1.3 Eye protection

Safety goggles if there is a risk of splashing.

8.2.1.4 Skin protection

Protective clothing when needed.

8.2.2 Environmental exposure controls

Take precautionary measures to prevent product spills into drains, the ground or waters.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information (appearance, odour)

Liquid, colourless, clear, almost odourless.

9.2 Important health, safety and environmental information

9.2.1	pH	-
9.2.2	Boiling point/range	350-600 °C
9.2.3	Flash point	> 200°C (ASTM D 92)
9.2.5	Explosive properties	
9.2.5.1	Lower explosive limit	-
9.2.5.2	Upper explosive limit	-
9.2.7	Vapour pressure	-
9.2.8	Relative density	0,82 - 0,84 (15°C) (ASTM D-4052).
9.2.9	Solubility	
9.2.9.1	Water solubility	insoluble
9.2.9.2	Fat solubility (solvent /oil to be specified)	no data available
9.2.10	Partition coefficient (n-octanol/water)	Base oil hydrocarbons: log Kow > 4 (estimate).

9.2.11 Viscosity Kinematic viscosity: Approx. 20 mm²/s (40°C), (ASTM D-445).
Typical dynamic viscosity (+20 °C) 38 mPas (calculated)

9.3 Other information
Pour point / Melting point <-12 °C

10. STABILITY AND REACTIVITY

10.1 Conditions to avoid

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10.2 Materials to avoid

Incompatible with strong acids and oxidising agents.

10.3 Hazardous decomposition products

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11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

Very low toxicity when swallowed ([LD50/oral/rat > 2000 mg/kg]) and in contact with skin ([LD50/dermal/rabbit > 2000 mg/kg]).

11.2 Irritation and corrosion

May irritate slightly the skin and the eyes.

11.3 Sensitisation

Non-sensitizing.

11.4 Subacute, subchronic and prolonged toxicity

Did not show carcinogenic effects in animal experiments (DMSO < 3 w-%).
Prolonged skin contact may cause skin irritation and/or dermatitis.

11.5 Human experience

Prolonged or repeated skin contact may irritate the skin and produce dermatitis. Oil mist irritates the eyes and the respiratory tract.

11.6 Further information

Toxicological data are based on tests with corresponding products or components.
Used oils may contain accumulated contaminants dangerous to health and the environment.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

12.1.1 Aquatic toxicity

Very low toxicity (LL/IL50 > 100 mg/l, 48/96 h, alga, daphnid and fish, estimate).

12.2 Mobility

Product does not evaporate from surface soil or water. It is insoluble in water. Product can penetrate soil until reaching the surface of ground water. Degradation occurs extremely slowly under anaerobic conditions. Base oil hydrocarbons can be adsorbed onto organic material in soil or sediment (log Kow > 4).

12.3 Persistence and degradability

12.3.1 Biodegradation

Not readily degradable. Inherent biodegradability = 50 % after 28 days(OECD301B).

12.3.2 Chemical degradation

Does not hydrolyze in water.

12.4 Bioaccumulative potential

Base oil hydrocarbons are possibly accumulative (log Kow > 4).

12.6 Other adverse effects

WGK = 1 (Germany)

Toxicological data are based on tests with corresponding products or components.

13. DISPOSAL CONSIDERATIONS

Product waste is hazardous waste. It should be treated according to national regulations and local authorities' advice.

14. TRANSPORT INFORMATION

14.1	UN-No	-
14.2	Packaging group	-
14.3	Land transport	
14.3.1	ADR/RID	-
14.3.4	Further information	Not classified as dangerous in the meaning of transport regulations.
14.4	Sea transport	
14.4.1	IMDG	-
14.4.3	Further information	Bulk: (MARPOL 73/78, Annex II): Noxious liquid, NF, (5) n.o.s. (NEXBASE 3043, contains Cycloalkanes C12+) ST 2, Cat. Y
14.5	Air transport	
14.5.1	ICAO/IATA	-

15. REGULATORY INFORMATION

15.1	Information on the warning label
	EC-number 276-738-4
15.1.1	Letter code of the warning symbol and indications of danger for the preparation
15.1.2	Names of the ingredients given on the warning label
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15.2	National regulatory information
	EC LABEL

16. OTHER INFORMATION

16.4	Further information
	Neste Oil Corporation, Base Oils, Finland, tel. +358 10 45811, fax +358 10 45 85244 , e-mail: nexbase@nesteoil.com Neste Oil N.V., Beringen, Belgium tel. +32 11 459 511, fax. +32 11 459 512, e-mail: nexbase@nesteoil.com
16.5	Literary reference
	Concawe report 6/05 & 01/54.
16.6	Additions, deletions, revisions
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