

NESTE OIL

SAFETY DATA SHEET NESTE HYPOIDI S 75W-90

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

1.1. Product identifier

| | |
|-------------------------|------------------------|
| Product name | NESTE HYPOIDI S 75W-90 |
| Product number | ID 16102 |
| Internal identification | 2009 |

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

| | |
|-----------------|-------------------|
| Identified uses | Transmission oil. |
|-----------------|-------------------|

1.3. Details of the supplier of the safety data sheet

| | |
|----------|--|
| Supplier | Neste Markkinointi Oy Keilaranta 21, Espoo, P.O.B. 95, 00095 NESTE OIL, FINLAND Tel. +358 10 45811 Fax +358 10 45 84442 lubetec@nesteoil.com |
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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

Classification

| | |
|-----------------------|---------------------|
| Physical hazards | Not Classified |
| Health hazards | Skin Sens. 1 - H317 |
| Environmental hazards | Not Classified |

2.2. Label elements

Pictogram



| | |
|--------------------------|---|
| Signal word | Warning |
| Hazard statements | H317 May cause an allergic skin reaction. |
| Precautionary statements | P261 Avoid breathing vapour/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P362+P364 Take off contaminated clothing and wash it before reuse. P501 Dispose of contents/container in accordance with national regulations. P102 Keep out of reach of children. |
| Contains | Di-tert-butyl polysulfide, Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched) |

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2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| | | |
|----------------------------------|----------------------|--|
| Di-tert-butyl polysulfide | | 2,5 - < 5 % |
| CAS number: 68937-96-2 | EC number: 273-103-3 | REACH registration number: 01-2119540515-43-XXXX |

Classification

Skin Sens. 1B - H317
Aquatic Chronic 3 - H412

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

1 - < 2,5 %

| | | |
|---------------|----------------------|--|
| CAS number: — | EC number: 931-384-6 | REACH registration number: 01-2119493620-38-XXXX |
|---------------|----------------------|--|

Classification

Acute Tox. 4 - H302
Eye Dam. 1 - H318
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

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

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------|--|
| Inhalation | Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist. |
| Ingestion | Rinse mouth. Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms are severe or persist. |
| Skin contact | Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing. |
| 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 The product contains a sensitising substance. May cause an allergic skin reaction. May cause eye irritation.

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.

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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 Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back.

Hazardous combustion products Carbon dioxide (CO₂). Carbon monoxide (CO). Hydrocarbons. Aldehydes. Ketones. Hydrogen sulphide (H₂S). Sulphurous gases (SO_x). Nitrous gases (NO_x).

5.3. Advice for firefighters

Protective actions during firefighting Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Contain and collect extinguishing water. Avoid discharge into drains.

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 Wear suitable protective clothing as protection against splashing or contamination.

For emergency responders Keep unnecessary and unprotected personnel away from the spillage.

6.2. Environmental precautions

Environmental precautions 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).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with sand or other inert absorbent. Place waste in labelled, sealed containers. Dispose of waste via a licensed waste disposal contractor.

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 inhalation of vapours and spray/mists. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. All handling should only take place in well-ventilated areas. Take precautionary measures against static discharges. For personal protection, see Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep containers upright. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Specific end use(s) Not known.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

8.2. Exposure controls

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| Appropriate engineering controls | All handling should only take place in well-ventilated areas. Avoid the formation of mists. Provide eyewash station and safety shower. |
| Eye/face protection | Tight-fitting safety glasses. |
| Hand protection | Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. Butyl rubber. |
| Other skin and body protection | Wear suitable protective clothing as protection against splashing or contamination. |
| Respiratory protection | No specific recommendations. |
| 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

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|---|---|
| Appearance | Liquid. |
| Colour | Tan. |
| Odour | Petroleum. |
| Odour threshold | - |
| pH | - |
| Melting point | < - 45°C Pour point |
| Initial boiling point and range | > 350°C @ |
| Flash point | 192°C |
| Flammability (solid, gas) | - |
| Upper/lower flammability or explosive limits | - |
| Vapour pressure | < 0,01 hPa |
| Vapour density | - |
| Relative density | 0,849 @ 20°C |
| Solubility(ies) | Insoluble in water. |
| Partition coefficient | - |
| Auto-ignition temperature | - |
| Decomposition Temperature | - |
| Viscosity | 86 mm ² /s @ 40°C ~14,4 mm ² /s @ 100°C |
| Explosive properties | - |
| Oxidising properties | - |

9.2. Other information

| | |
|--------------------------|------------|
| Other information | Not known. |
|--------------------------|------------|

SECTION 10: Stability and reactivity

10.1. Reactivity

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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 Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Aldehydes. Carbon dioxide (CO₂). Carbon monoxide (CO). Hydrogen sulphide (H₂S). Nitrous gases (NO_x). Sulphurous gases (SO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Not classified.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.,May cause skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met. May irritate eyes. Supplier's information. Bridging principle (Dilution).

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisation May cause sensitisation by skin contact.

Germ cell mutagenicity

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity - development

Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

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Toxicological information on ingredients.

Di-tert-butyl polysulfide

Skin corrosion/irritation

Animal data Slightly irritating.

Serious eye damage/irritation

Serious eye damage/irritation Slightly irritating.

Skin sensitisation

Skin sensitisation Sensitising. 1B

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ ~2000 mg/kg, Oral, Rat

ATE oral (mg/kg) 500.0

Serious eye damage/irritation

Serious eye damage/irritation Causes burns.

Skin sensitisation

Skin sensitisation Local Lymph Node Assay (LLNA) Mouse OECD TG 429

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity The product is not expected to be hazardous to the environment. Based on available data the classification criteria are not met.

Ecological information on ingredients.

Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)

Acute toxicity - fish LL₅₀
~24 mg/l, 48 h, WAF
Onchorhynchus mykiss (Rainbow trout)
OECD TG 203

Acute toxicity - aquatic invertebrates EL50 ~91,4 mg/l, 48 h, WAF
Daphnia magna
OECD TG 202

Acute toxicity - aquatic plants ErC50 15 mg/l, 96 h
Pseudokirchneriella subcapitata
OECD TG 201
NOEC 3,3 mg/l, 96 h
Pseudokirchneriella subcapitata
OECD TG 201

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| | |
|---|--|
| Chronic toxicity - aquatic invertebrates | NOEC 0,12 mg/l, 21 d Daphnia magna WAF OECD TG 211 |
|---|--|

12.2. Persistence and degradability

Persistence and degradability No data available.

Biodegradation No data available.

Ecological information on ingredients.**Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)**

| | |
|-----------------------|-------------|
| Biodegradation | 7,4 %, 28 d |
|-----------------------|-------------|

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient -

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment No data available.

12.6. Other adverse effects

Other adverse effects None known.

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. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Do not reuse empty containers.

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

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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 MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 Not applicable.

and the IBC Code

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

No data available.

SECTION 16: Other information**Key literature references and sources for data**

The manufacturer's SDS. 19.6.2015

Revision comments

This is first issue. (new SDS software has been introduced)

Revision date

10/12/2015

Supersedes date

10/02/2014

SDS number

5569

Hazard statements in full

H302 Harmful if swallowed.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.