

# SAFETY DATA SHEET NESTE HYPOIDI MP 80W-90

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

1.1. Product identifier

Product name NESTE HYPOIDI MP 80W-90

Product number ID 16108

Internal identification 2419

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@neste.com

1.4. Emergency telephone number

National emergency telephone +358-9-471 977, +358-9-4711, Poison Information Centre/HUS, P.O.B 340 (Tukholmankatu

**number** 17) 00029 HUS (Helsinki, Finland)

**SECTION 2: Hazards identification** 

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements EUH208 Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with

phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs. May produce an

allergic reaction.

Supplemental label

information

EUH210 Safety data sheet available on request.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

## **NESTE HYPOIDI MP 80W-90**

Distillates (petroleum), solvent-dewaxed heavy paraffinic

1 - < 2.5%

CAS number: 64742-65-0 EC number: 265-169-7 REACH registration number: 01-

2119471299-27-XXXX

Classification

Asp. Tox. 1 - H304

Reaction products of bis(4-methylpentan-2-

1 - < 2.5 %

yl)dithiophosphoric acid with phosphorus oxide, propylene

oxide and amines, C12-14-alkyl (branched)

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

Oleylamine 0,25 - < 0,5 %

CAS number: 112-90-3 EC number: 204-015-5

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Acute Tox. 4 - H302 Skin Corr. 1B - H314 STOT SE 3 - H335 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Reaction product of 1,3,4-thiadiazolidine-2,5-dithione,

0,1 - < 0,25 %

formaldehyde and phenol, heptyl derivs

CAS number: — REACH registration number: 01-

2119971727-23-XXXX

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1B - H317 Aquatic Chronic 3 - H412

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

### **NESTE HYPOIDI MP 80W-90**

**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.

**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 May irritate eyes. The product contains a small amount of sensitising substance. May cause

an allergic skin reaction.

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

## 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 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 monoxide (CO). Carbon dioxide (CO2). Hydrocarbons. Aldehydes. Nitrous gases

(NOx). Oxides of sulphur. Hydrogen sulphide (H2S).

### 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

### **NESTE HYPOIDI MP 80W-90**

**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

Occupational exposure limits

-

### 8.2. Exposure controls

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

Appearance Liquid.

Colour Tan.

Odour Petroleum.

Odour threshold -

pH -

Melting point < -24°C Pour point

Initial boiling point and range > 350°C

Flash point 172°C PMCC (Pensky-Martens closed cup).

Flammability (solid, gas) -

### **NESTE HYPOIDI MP 80W-90**

Upper/lower flammability or

explosive limits

Vapour pressure < 0,01 hPa

Vapour density -

Relative density 0,883 @ 15,6°C

Solubility(ies) Insoluble in water.

Partition coefficient -

Auto-ignition temperature -

Decomposition Temperature

Viscosity ~ 128 mm2/s @ 40°C

Explosive properties -

Oxidising properties -

9.2. Other information

Other information Not known.

## 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

products

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

Aldehydes. Carbon monoxide (CO). Carbon dioxide (CO2). Hydrogen sulphide (H2S). Nitrous

gases (NOx). Sulphurous gases (SOx).

### 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.

Serious eye damage/irritation

Serious eye damage/irritation May irritate eyes. Based on available data the classification criteria are not met. Supplier's

information. Bridging principle (Dilution).

## Respiratory sensitisation

## **NESTE HYPOIDI MP 80W-90**

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

Skin sensitisation

Skin sensitisation The product contains a small amount of sensitising substance. Based on available data the

classification criteria are not met.

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 -

Based on available data the classification criteria are not met.

development

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.

Toxicological information on ingredients.

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> > 5000 mg/kg, Dermal, Rabbit

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 LD₅o) LD₅o ~ 2000 mg/kg, Oral, Rat (OECD TG 401)

**ATE oral (mg/kg)** 500.0

Oleylamine

Acute toxicity - oral

Notes (oral LD₅o) LD₅o 1950 mg/kg, Oral, Rat

**ATE oral (mg/kg)** 500.0

**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.

## **NESTE HYPOIDI MP 80W-90**

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

Acute toxicity - fish LL<sub>50</sub>, 96 hours: ~ 24 mg/l, Onchorhynchus mykiss (Rainbow trout)

WAF (OECD TG 203)

Acute toxicity - aquatic

EL50, 48 hours: ~ 91,4 mg/l, Daphnia magna

invertebrates

WAF (OECD TG 202)

Acute toxicity - aquatic

plants

ErC50, 96 hours: 15 mg/l, Pseudokirchneriella subcapitata

(OECD TG 201)

NOEC, 96 hours: 3,3 mg/l, Pseudokirchneriella subcapitata

(OECD TG 201)

Chronic toxicity - aquatic

invertebrates

NOEC, 21 days: 0,12 mg/l, Daphnia magna

WAF (OECD TG 211)

Oleylamine

Acute aquatic toxicity

**LE(C)**<sub>50</sub>  $0.1 < L(E)C50 \le 1$ 

M factor (Acute) 1

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 0,11 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 0,011 mg/l, Daphnia magna

Acute toxicity - aquatic

EC₅o, 72 hours: 0,083 mg/l, Desmodesmus subspicatus NOEC, 96 hours: 0,01 mg/l, Pseudokirchneriella subcapitata

Chronic aquatic toxicity

M factor (Chronic) 1

12.2. Persistence and degradability

plants

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

Oleylamine

Biodegradation 44 %, 28 d

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient -

Ecological information on ingredients.

Oleylamine

### **NESTE HYPOIDI MP 80W-90**

Bioaccumulative potential (BCF) > 500

Partition coefficient log Pow: (Estimated), > 4

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

No data available.

assessment

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

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 Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

### **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### **NESTE HYPOIDI MP 80W-90**

**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

No data available.

### SECTION 16: Other information

**Abbreviations and acronyms** ATE = Acute Toxicity Estimate

**used in the safety data sheet** WAF = Water Accommodated Fraction

Key literature references and

sources for data

The manufacturer's SDS. 16.3.2016

**Revision comments** Revised formulation. Updated, sections: 3, 5, 10, 15, 16

 Revision date
 24/03/2016

 Supersedes date
 02/02/2016

SDS number 5542

Hazard statements in full H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched), Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs. May produce an

allergic reaction.