

# SAFETY DATA SHEET NESTE INDUSTRIAL GEAR 220 EP

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

1.1. Product identifier

Product name NESTE INDUSTRIAL GEAR 220 EP

Product number ID 18988

Internal identification 3440

Synonyms; trade names Previous product name: NESTE VAIHTEISTO 220 EP, product number 3439, ID 16233.

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

Identified uses Lubricant.

1.3. Details of the supplier of the safety data sheet

Supplier Neste Markkinointi Oy

Keilaranta 21, Espoo, P.O.B. 95, FIN-00095 NESTE, FINLAND

Tel. +358 10 45811 lubetec@neste.com

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** Aquatic Chronic 3 - H412

2.2. Label elements

**Hazard statements** EUH208 Contains Amines, C12-14-tert-alkyl. May produce an allergic reaction.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** P102 Keep out of reach of children.

P273 Avoid release to the environment.

P501 Dispose of contents/ container in accordance with national regulations.

#### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

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Amines, C12-14-tert-alkyl 0,1 - < 0,25 %

CAS number: 68955-53-3 EC number: 273-279-1 REACH registration number: 01-

2119456798-18-XXXX

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

Classification

Acute Tox. 4 - H302 Acute Tox. 3 - H311 Acute Tox. 2 - H330 Skin Corr. 1B - H314 Eye Dam. 1 - H318

Skin Sens. 1A - H317 STOT SE 3 - H335 Aquatic Acute 1 - H400

Aquatic Chronic 1 - H410

Oleylamine 0,025 - < 0,10 %

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

M factor (Acute) = 10 M factor (Chronic) = 10

Classification

Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

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 small amount of sensitising substance. May cause an allergic skin

reaction.

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

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#### 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 None known.

Hazardous combustion

products

Carbon dioxide (CO2). Carbon monoxide (CO). Hydrocarbons. Aldehydes. Sulphurous gases

(SOx).

#### 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

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#### 8.1. Control parameters

8.2. Exposure controls

Appropriate engineering

controls

All handling should only take place in well-ventilated areas. 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 < -18°C Pour point

Initial boiling point and range -

Flash point 226°C Open cup.

Flammability (solid, gas) -

Upper/lower flammability or

explosive limits

Vapour pressure -

Vapour density -

Relative density 0,893 @ 15°C

Solubility(ies) Insoluble in water.

Partition coefficient -

Auto-ignition temperature -

Decomposition Temperature -

Viscosity ~220 mm2/s @ 40°C

Explosive properties -

Oxidising properties -

9.2. Other information

Other information Not known.

## **NESTE INDUSTRIAL GEAR 220 EP**

## 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

No potentially hazardous reactions known.

reactions

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

No known hazardous decomposition products.

products

#### SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

**Toxicological effects** Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) ATE > 2000 mg/kg. Calculation method.

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) > 20 mg/l, 4 hours, Vapour Calculation method.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

**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 -

development

Based on available data the classification criteria are not met.

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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.

Amines, C12-14-tert-alkyl

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 612 mg/kg, Oral, Rat (OECD TG 401)

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) LD<sub>50</sub> 251 mg/kg, Dermal, Rat (OECD TG 402)

ATE dermal (mg/kg) 300.0

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) LC<sub>50</sub> 1,19 mg/l, (4h), Inhalation, Rat (OECD TG 403)

ATE inhalation (vapours

mg/l)

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> 1950 mg/kg, Oral, Rat

0.5

ATE oral (mg/kg) 500.0

SECTION 12: Ecological information

12.1. Toxicity

**Toxicity** Harmful to aquatic life with long lasting effects. The product contains a substance which is

toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic

environment.

Ecological information on ingredients.

Amines, C12-14-tert-alkyl

Oleylamine

Acute aquatic toxicity

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

M factor (Acute)

Acute toxicity - fish LC₅₀, 96 hours: 1,3 mg/l, Oncorhynchus mykiss (Rainbow trout)

(OECD TG 203)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 2,5 mg/l, Daphnia magna

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Acute toxicity - aquatic

plants

ErC50, 72 hours: 0,44 mg/l, Pseudokirchneriella subcapitata NOEC, 72 hours: 0,05 mg/l, Pseudokirchneriella subcapitata

(OECD TG 201)

Chronic aquatic toxicity

M factor (Chronic)

Chronic toxicity - fish early NOEC, 96 days: 0,078 mg/l, Oncorhynchus mykiss (Rainbow trout)

life stage (OECD TG 210)

1

Oleylamine

Acute aquatic toxicity

LE(C)50  $0.01 < L(E)C50 \le 0.1$ 

M factor (Acute) 10

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 EC<sub>50</sub>, 72 hours: 0,083 mg/l, Desmodesmus subspicatus NOEC, 96 hours: 0,01 mg/l, Pseudokirchneriella subcapitata

plants

Chronic aquatic toxicity

M factor (Chronic) 10

12.2. Persistence and degradability

Persistence and degradability No data available.

**Biodegradation** No data available.

Ecological information on ingredients.

Amines, C12-14-tert-alkyl

Biodegradation 22 %, 28 d

(OECD TG 301D)

Oleylamine

Biodegradation 44 %, 28 d

12.3. Bioaccumulative potential

No data available on bioaccumulation. Bioaccumulative potential

Partition coefficient

Ecological information on ingredients.

Amines, C12-14-tert-alkyl

Bioaccumulative potential log Pow 2,9

Oleylamine

(BCF) > 500Bioaccumulative potential

Partition coefficient log Pow: Estimated value. > 4

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## 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 MARPOL 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 INDUSTRIAL GEAR 220 EP**

**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 2015/830 of 28 May 2015.

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 used in the safety data sheet

ATE = Acute Toxicity Estimate

Key literature references and

sources for data

The manufacturer's SDS. 23.4.2019

Revision comments Revised classification. Updated, sections: 2, 3.2, 4.2, 9.1, 10.6, 11.1 NOTE: Lines within the

margin indicate significant changes from the previous revision.

Revision date 22/05/2019

Supersedes date 01/09/2017

SDS number 4807

Hazard statements in full H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H335 May cause respiratory irritation.

H373 May cause damage to organs (Gastro-intestinal tract, liver, immune system) through

prolonged or repeated exposure. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains Amines, C12-14-tert-alkyl. May produce an allergic reaction.