SAFETY DATA SHEET
Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

1. Identification

Product identifier

Product name Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

Product number ID 13898.

Recommended use of the chemical and restrictions on use

Application Use as a fuel

Details of the supplier of the safety data sheet

Supplier Neste Oyj
Keilaranta 21, Espoo, P.O.B. 95, FIN-00095 NESTE, FINLAND
Tel. +358 10 45811
SDS@neste.com (chemical safety)

Emergency telephone number

Emergency telephone +61 2 9186 1132, Chemwatch: International Emergency Response Phone Number

National emergency telephone number +358 800 147 111, +358 9 471 977, Poison Information Centre

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Flam. Liq. 4 - H227

Health hazards Asp. Tox. 1 - H304

Environmental hazards Not Classified

Label elements

Hazard symbols

Signal word Danger

Hazard statements H227 Combustible liquid.
H304 May be fatal if swallowed and enters airways.

Precautionary statements P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P301+P310 If swallowed: Immediately call a poison center/ doctor.
P331 Do NOT induce vomiting.
P501 Dispose of contents/ container in accordance with national regulations.

Contains Alkanes, C10-20 -branched and linear

Other hazards

Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

Hazards not otherwise classified (HNOC) Risk of soil and ground water contamination. Repeated exposure may cause skin dryness or cracking.

Other hazards This product does not contain substances considered to have endocrine disrupting properties at levels of 0.1% or higher.

3. Composition/information on ingredients

Mixtures

Alkanes, C10-20 -branched and linear **ca. 100%**

CAS number: 928771-01-1

Classification
Flam. Liq. 4 - H227
Asp. Tox. 1 - H304

The full text for all hazard statements is displayed in Section 16.

Composition comments Mixture of renewable raw material fuel and additives. Contains middle distillate-range iso- and n-paraffinic hydrocarbons. Total aromatics at maximum: 1,0%

Ingredient notes Identity inside the EU: Renewable hydrocarbons (diesel type fraction); REACH Registration Nr: 01-2119450077- 42-0000.

4. First-aid measures

Description of first aid measures

Inhalation Unlikely to be hazardous by inhalation because of the low vapor pressure of the product at ambient temperature. If spray/mist has been inhaled, proceed as follows. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms are severe or persist.

Ingestion Do not induce vomiting. Get medical attention immediately.

Skin Contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists 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.

Most important symptoms and effects, both acute and delayed

General information Repeated exposure may cause skin dryness or cracking. Spray/mists may cause respiratory tract irritation. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Indication of immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media Water may be ineffective for extinguishment, unless used under favorable conditions by experienced fire fighters

Special hazards arising from the substance or mixture

Specific hazards Combustible liquid. Containers can burst violently or explode when heated, due to excessive pressure build-up.

Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

Hazardous combustion products Carbon dioxide (CO2). Carbon monoxide (CO).

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.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions 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.

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. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air). Risk of soil and ground water contamination.

Methods and material for containment and cleaning up

Methods for cleaning up Immediately start clean-up of the liquid and contaminated soil. Contain spillage with sand, earth or other suitable non-combustible material. Pay attention to the fire and health hazards caused by the product.

Reference to other sections For personal protection, see Section 8.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharges. Use only outdoors or in a well-ventilated area. Avoid inhalation of vapors 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. During tank operations follow special instructions (risk of oxygen displacement and hydrocarbons).

Conditions for safe storage, including any incompatibilities

Storage precautions Flammable liquid storage. Store in accordance with local regulations. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Only store in correctly labeled containers. Use containers made of the following materials: Carbon steel. Stainless steel.

Specific end uses(s)

Specific end use(s) Not known.

8. Exposure controls/Personal protection

Ingredient comments The individual limit values can be applied for the hydrocarbons.
Diesel fuel as total hydrocarbons; ACGIH TLV®-TWA (8h) 100 mg/m3 (IFV).

Exposure controls

Appropriate engineering controls Provide adequate ventilation. Use personal protective equipment and/or local ventilation when needed. Handle in accordance with good industrial hygiene and safety practice. During tank operations follow special instructions (risk of oxygen displacement and hydrocarbons).

Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

Eye/face protection	Spectacles.
Hand protection	Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. Neoprene. Polyvinyl chloride (PVC). The breakthrough time for any glove material may be different for different glove manufacturers. Change protective gloves regularly.
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	Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P2. Filter must be changed often enough. At high concentrations a breathing apparatus must be used (self-contained or fresh air hose breathing apparatus).
Environmental exposure controls	Store in a demarcated bunded area to prevent release to drains and/or watercourses.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Liquid.
Color	Clear.
Odor	Mild.
Odor threshold	-
pH	-
Melting point	Pour point < -20°C @ 1013 hPa (BS4633, EC A1)
Initial boiling point and range	180-320°C (EN ISO 3405)
Flash point	> 61°C (EN ISO 2719, EC A9)
Upper/lower flammability or explosive limits	-
Vapor pressure	0,087 kPa @ 25°C (EC A4)
Vapor density	-
Relative density	0,77 - 0,79 @ 15/4°C (EN ISO 12185, EC A3)
Solubility(ies)	Insoluble in water. ~ 0,075 mg/l water @ 25°C (calculated) Soluble in the following materials: Methanol. Hydrocarbons.
Partition coefficient	log Kow: > 6,5 (EC A8)
Auto-ignition temperature	204°C (EC A15)
Decomposition Temperature	-
Viscosity	Kinematic viscosity 4.0 mm2/s @ 20°C 2.6 mm2/s @ 40°C (OECD 114) Dynamic viscosity ≤ 5 mPa s @ 20°C
Explosive properties	Not considered to be explosive. (EC A14)
Oxidizing properties	Does not meet the criteria for classification as oxidizing.
Other information	Not known.

10. Stability and reactivity

Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

Reactivity	There are no known reactivity hazards associated with this product.
Stability	Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions	No potentially hazardous reactions known.
Conditions to avoid	Keep away from heat, sparks and open flame.
Materials to avoid	Oxidizing agents.
Hazardous decomposition products	Does not decompose when used and stored as recommended.

11. Toxicological information

Information on toxicological effects

Toxicological effects	Acute toxicity (any route of exposure) 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. (EC B4) Repeated exposure may cause skin dryness or cracking. The product irritates mucous membranes and may cause abdominal discomfort if swallowed. May cause respiratory system irritation.

Serious eye damage/irritation

Serious eye damage/irritation	Based on available data the classification criteria are not met. (EC B5)

Skin sensitization

Skin sensitization	Based on available data the classification criteria are not met. (EC B6)

Germ cell mutagenicity

Genotoxicity - in vitro	Based on available data the classification criteria are not met. (EC B10, B13/14 & B17).

Carcinogenicity

Carcinogenicity	Based on available data the classification criteria are not met.
IARC carcinogenicity	Not listed.
NTP carcinogenicity	Not listed.
OSHA Carcinogenicity	Not listed.

Reproductive toxicity

Reproductive toxicity - fertility	Based on available data the classification criteria are not met. (OECD 416)

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

STOT - repeated exposure	Based on available data the classification criteria are not met. (OECD 408)

Aspiration hazard

Aspiration hazard	May be fatal if swallowed and enters airways. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

General information This product does not contain substances considered to have endocrine disrupting properties at levels of 0.1% or higher.

Route of exposure Inhalation Ingestion Skin and/or eye contact

Toxicological information on ingredients.

Alkanes, C10-20 -branched and linear

Acute toxicity - oral

Notes (oral LD_{50}) LD_{50} >2000 mg/kg, Oral, Rat (EC B1 tris)

Acute toxicity - dermal

Notes (dermal LD_{50}) LD_{50} > 2000 mg/kg, Dermal, Rat (EC B3)

12. Ecological information

Acute aquatic toxicity

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

Chronic aquatic toxicity

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

Ecological information on ingredients.

Alkanes, C10-20 -branched and linear

Acute aquatic toxicity

Acute toxicity - fish LL_{50}, 96 hours: > 1000 mg/l, Fish
WAF (OECD 203)

Acute toxicity - aquatic invertebrates EL50, 48 hours: > 100 mg/l,
WAF (OECD 202)

Acute toxicity - aquatic plants EL50, 72 hours: > 100 mg/l, Algae
WAF (OECD 201)

Acute toxicity - microorganisms EC_{50}, 30 minutes: > 1000 mg/l, Micro-organisms (wastewater sludge)
EC_{50}, 3 hours: > 1000 mg/l, Micro-organisms (wastewater sludge)
(OECD 209)

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 1 mg/l,
LOEC, 21 days: 3,2 mg/l,
WAF (OECD 211)
NOEC, 10 days: 373 mg/kg, Sediment organisms
LOEC, 10 days: 1165 mg/kg, Sediment organisms
LC_{50}, 10 days: 1200 mg/kg, Sediment organisms
(OSPAR Protocols, Part A: Sediment Bioassay, 2005)

Persistence and degradability

Stability (hydrolysis) No significant reaction in water.

Biodegradation Rapidly degradable
(OECD 301B).

Bioaccumulative potential

Bio-Accumulative Potential Possibly bioaccumulative.

Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

Partition coefficient log Kow: > 6,5 (EC A8)

Mobility in soil

Mobility Evaporates slowly. The product has poor water-solubility. The product contains substances which are bound to particulate matter and are retained in soil. Log Koc > 5.6 (EC C19).

Other adverse effects

Other adverse effects Not known.

Endocrine-disrupting properties This product does not contain substances considered to have endocrine disrupting properties at levels of 0.1% or higher.

13. Disposal considerations

Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. 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. Product residues retained in emptied containers can be hazardous. Waste packaging should be collected for reuse or recycling.

14. Transport information

Sea transport notes This cargo is considered an Energy-rich fuel and effective 1 January 2019 should be carried subject to Annex I of MARPOL, see Annex 12 of MEPC.2/Circ.24. Please also refer to MEPC.1/Circ.879 - GUIDELINES FOR THE CARRIAGE OF ENERGY-RICH FUELS AND THEIR BLENDS

UN Number

UN No. (TDG) 1202

UN No. (IMDG) Not classified under IMDG.

UN No. (DOT) 1202

UN proper shipping name

Proper shipping name (TDG) UN 1202 DIESEL FUEL

Proper shipping name (DOT) UN 1202 DIESEL FUEL

Transport hazard class(es)

TDG class 3

Packing group

TDG Packing Group III

DOT packing group III

Environmental hazards

Environmentally Hazardous Substance
No.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Bulk (MARPOL 73/78, Annex I): Energy-rich fuels

15. Regulatory information

Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

National regulations

EU regulatory references for the safety data sheet:
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).

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins

Not listed.

Inventories

EU - EINECS/ELINCS

Not listed.

Canada - DSL/NDSL

Present.
DSL

US - TSCA

Present.

Australia - AIIC

Present.

China - IECSC

Not listed.

16. Other information

Abbreviations and acronyms used in the safety data sheet

ACGIH = American Conference of Governmental Industrial Hygienists
IARC = International Agency for Research on Cancer
NTP = National Toxicology Program
OSHA = Occupational Safety and Health Administration
TLV = Treshold Limit Value
TWA = Time-Weighted Average
WAF = Water Accommodated Fraction

Key literature references and sources for data

Regulations, databases, literature, own research. Chemical Safety Report Renewable hydrocarbons (diesel type fraction), 2017.

Revision comments

Updated, sections: 2, 11, 12
NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

2/2/2023

Revision

3.7

Supersedes date

7/26/2022

SDS No.

5561

Hazard statements in full

H227 Combustible liquid.
H304 May be fatal if swallowed and enters airways.

NFPA - health hazard

0

Neste Renewable Diesel; Neste Renewable Diesel 100 %; Neste MY Renewable Diesel

NFPA - flammability hazard	2
NFPA - instability hazard	0
NFPA - special hazard	-
ACA HMIS Health rating.	2
ACA HMIS Flammability rating.	2
ACA HMIS Physical hazard rating.	0