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19/09/2024

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23/02/2026

Revision Number
1.02
Country-Language: FIN-EN

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

1.1. Product identifier

Product Name	NESSOL D60
Synonyms	135159, 137411, 137420, 137511, 137520
Product Code(s)	10526
Safety data sheet number	10526
REACH registration number	01-2119457273-39-0000
EC No. (Index No.)	918-481-9
Pure substance/mixture	Substance

Contains Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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

Recommended use	<ul style="list-style-type: none"> Manufacture of substance Distribution of substance Formulation & (re)packing of substances and mixtures Uses in coatings Use in cleaning agents Use in oil and gas field drilling and production operations Lubricant Metal working fluids/rolling oils Use as binders and release agents Use as a fuel Functional fluids Road and construction applications Use in laboratories Explosives manufacture & use Polymer production Polymer processing Water treatment chemical Mining chemicals De-icing and anti-icing applications Propellant
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Uses advised against Supported uses are listed above. Other uses are not recommended.

1.3. 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)

1.4. Emergency telephone number

Emergency Telephone :

Emergency Telephone - §45 - (EC)1272/2008	
Europe	112
Denmark	Giftlinjen: +45 8212 1212
Estonia	Poison information telephone number: 16662, calling from abroad: (+372) 7943 794
Finland	+358 800 147 111, +358 9 471 977, Poison Information Centre
France	France: Numéro ORFILA (INRS) : + 33 (0)1 45 42 59 59.
Germany	+49 32 211121704, Chemwatch Emergency Response Phone Number
Italy	+39 800 177 870, Chemwatch Emergency Response Phone Number
Latvia	Valsts toksikoloģijas centrs: (+371) 6704 2473
Lithuania	Farmakologinio budrumo ir apsinuodijimų informacijos skyrius (visą parą): +370 5 236 2052.
Netherlands	NVIC (088 755 8000), Only for the purpose of informing medical personnel in case of acute intoxications.
Norway	Poison Information Centre +47 22 59 13 00.
Poland	+48 22 208 6439, Chemwatch Emergency Response Telephone Number
Spain	+34 965 02 04 58, Número de teléfono de respuesta a emergencias de Chemwatch
Sweden	När det är akut: 112, begär giftinformation. I mindre akuta fall 010-456 6700, Giftinformationscentralens direktnummer

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to
Regulation (EC) No. 1272/2008 [CLP]

Aspiration hazard	Category 1 - (H304)
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2.2. Label elements

Contains Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics



Signal word

Danger

Hazard statements

H304 - May be fatal if swallowed and enters airways
EUH066 - Repeated exposure may cause skin dryness or cracking

Precautionary Statements - EU (§28, 1272/2008)

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P331 - Do NOT induce vomiting
P501 - Dispose of contents/ container in accordance with national regulations

2.3. Other hazards

Combustible liquid. Evaporates slowly. Vapours may irritate throat and respiratory system. Risk of soil and ground water contamination.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Chemical name	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics -	100	01-2119457273-39	918-481-9	Asp. Tox. 1 (H304) EUH066	-	-	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

No information available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59).

Additional information

Cumene <0.1%. Total aromatics at maximum 1,0 Weight %. Identity outside the EU (CAS number and name of the substance): 64742-48-9, Naphtha (petroleum), hydrotreated heavy Previous EC number: 265-150-3

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air. If breathing is difficult, (trained personnel should) give oxygen. If symptoms persist, call a doctor. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
Ingestion	ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Never give anything by mouth to an unconscious person. Get immediate medical attention. Delayed pulmonary edema may occur.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms	Repeated exposure may cause skin dryness or cracking. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media Dry chemical, CO₂, alcohol-resistant foam or water spray.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Combustible liquid. Containers may explode when heated.

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

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Prevent fire extinguishing water from contaminating surface water or the ground water system. Wear positive pressure self-contained breathing apparatus (SCBA). Use personal protective equipment.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Personal precautions Ensure adequate ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Use personal protective equipment as required.

For emergency responders Prevent unauthorized access. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment. Keep out of drains, sewers, ditches and waterways. Risk of soil and ground water contamination.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

Methods for cleaning up Immediately start clean-up of the liquid and contaminated soil. Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Large spills should be collected mechanically (remove by pumping) for disposal. Pay attention to the fire and health hazards caused by the product.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See Section 7 for more information. See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. This material is a static accumulator. Take precautionary measures against static discharges. Try to avoid product volatilization during handling and transferring.

Avoid breathing vapours or mists. Avoid contact with eyes and skin. Use personal protective equipment. Use only outdoors or in a well-ventilated area. Use with local exhaust ventilation. During tank operations follow special instructions (risk of oxygen displacement and hydrocarbons).

General hygiene considerations

When using do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Flammable liquid storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Store away from other materials.

7.3. Specific end use(s)

Risk Management Methods (RMM) Not applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Solvent naphtha, group 1: 500 mg/m³ (8h), HTP 2020/FIN. The individual limit values can be applied for the hydrocarbons.

Chemical name	Finland	France	Germany TRGS	Germany DFG
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics -	Solvent naphtha, group 1: 500 mg/m ³ (8h), HTP 2020/FIN	-	-	-

Biological occupational exposure limits No information available.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics -	-	300 mg/kg bw/day [4] [6]	1,9 mg/m ³ [4] [6] 837,5 mg/m ³ [5] [6] 1066,67 mg/m ³ [5] [7] 1286,4 mg/m ³ [4] [7]

[1]

[4] Systemic health effects.

[5] Local health effects.

[6] Long term.

[7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	300 mg/kg bw/day [4] [6]	300 mg/kg bw/day [4] [6]	0,41 mg/m ³ [4] [6] 178,57 mg/m ³ [5] [6] 640 mg/m ³ [5] [7] 1152 mg/m ³ [4] [7]

[4] Systemic health effects.

[5] Local health effects.

[6] Long term.

[7] Short term.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls

Provide adequate ventilation. Use personal protective equipment and/or local ventilation when needed. During tank operations follow special instructions (risk of oxygen displacement and hydrocarbons).

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Hand protection

Wear protective gloves. Change protective gloves regularly. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Wear suitable gloves tested to EN 374. It is recommended that gloves are made of the following material: Nitrile rubber, Neoprene gloves.

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. Filter must be changed often enough. Wear a respirator fitted with the following cartridge: Gas filter A2. Organic gases and vapours filter conforming to EN 14387. At high concentrations a breathing apparatus must be used (self-contained or fresh air hose breathing apparatus).

Thermal hazards

No information available.

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	Mobile liquid
Physical state	Liquid
Colour	clear
Odour	Hydrocarbons, Mild
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	< -20 °C	Melting/pour point (ASTM D 5950)
Boiling point or initial boiling point and boiling range	>= 175 - 225 °C	EN ISO 3405
Flammability	No data available	None known
Lower and upper explosion limit/flammability limit		
Lower explosion limit	~0.6 (calculated)	
Upper explosion limit	~7 (calculated)	
Flash point	>= 61 °C	EN ISO 2719
Autoignition temperature	> 200 °C	Estimated value
Decomposition temperature	-	-
SADT (°C)	-	-
pH	No data available	-
pH (as aqueous solution)	No data available	Not applicable
Kinematic viscosity	<3 mm ² /s	ASTM D 7042
Dynamic viscosity	< 50 mPa s	@ >- 30 °C
Solubility	-	-
Water solubility	The product has poor water-solubility (~ 10 mg/l)	-
Partition coefficient n-octanol/water (log value)	log Kow: > 3	-
Vapour pressure	0,05 kPa @ 20°C ~ 2 kPa @ 50°C	-
Density and/or relative density	~0.8	@ 15 °C (ISO 12185)
Bulk density	-	
Liquid Density	-	
Relative vapour density	> 3	. (air = 1)
Particle characteristics		
Particle Size	-	
Particle Size Distribution	-	

9.2. Other information

9.2.1. Information with regards to physical hazard classes

Explosive properties	Not an explosive
Oxidising properties	Does not meet the criteria for classification as oxidising

9.2.2. Other safety characteristics

No information available

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 under normal conditions.

Explosion data

Sensitivity to mechanical impact None.
Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat, sparks and open flame.

10.5. Incompatible materials

Incompatible materials Oxidising agent.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Acute toxicity Based on available data, the classification criteria are not met

Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	> 15000 mg/kg, Rat (OECD 401)	> 3160 mg/kg, Rabbit > 2000 mg/kg, Rat, (OECD 402)	> 6100 mg/m ³ , Inhalation, Rat (4h) (OECD 403)

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met. (OECD 404). Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met. (OECD 405).

Respiratory or skin sensitisation Based on available data, the classification criteria are not met. (OECD 406).

Germ cell mutagenicity Based on available data, the classification criteria are not met. (OECD 471, 473, 476, 479, 474).

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

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

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

STOT - repeated exposure Based on available data, the classification criteria are not met. (OECD 408, 413).

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

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

11.2.2. Other information

Other adverse effects None known.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Based on available data, the classification criteria are not met.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EL50, 72 h: > 1000 mg/l, Pseudokirchneriella subcapitata, OECD 201 NOELR: 1000 mg/l EC50, 48 h: > 100 mg/l IC50, 72 h: > 100 mg/l	LL50, 96 h: > 1000 mg/l, Oncorhynchus mykiss, OECD 203 LL0, 96 h: 1000 mg/l, Oncorhynchus mykiss, OECD 203 NOELR, 28 d: 0,101 mg/l, Oncorhynchus mykiss, QSAR LC50, 96 h: > 100 mg/l	EL50, 48 h: > 1000 mg/l, Tetrahymena pyriformis, QSAR	LL50, 48 h: > 1000 mg/l, Daphnia magna, OECD 202 EL0, 48 h: 1000 mg/l, Daphnia magna, OECD 202 LL0, 48 h: 1000 mg/l, Daphnia magna, OECD 202 LL50, 96 h: > 1000 mg/l, EPA OPPTS 850.1020, Marine Water NOELR, 96 h: 32 mg/l, EPA OPPTS 850.1020, Marine Water NOELR, 21 d: 0,176 mg/l, Daphnia magna, QSAR IC50, 72 h: 100 mg/l

12.2. Persistence and degradability

Persistence and degradability Can be photodegraded in the atmosphere. The product contains volatile substances which may spread in the atmosphere.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (-)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)			Rapidly biodegradable

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

12.4. Mobility in soil

Mobility in soil Evaporates slowly. The product contains substances which are bound to particulate matter and are retained in soil. Product can penetrate soil until reaching the surface of ground water.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Risk of soil and ground water contamination.

Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Should not be released into the environment. Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. When handling waste, the safety precautions applying to handling of the product should be considered.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

Note: This material is not subject to regulation as a hazardous material for shipping

IATA

14.1 UN number or ID number -
 14.2 UN proper shipping name -
 14.3 Transport hazard class(es) -
 14.4 Packing group -
 14.5 Environmental hazards No
 14.6 Special precautions for user -

IMDG

14.1 UN number or ID number -
 14.2 UN proper shipping name -
 14.3 Transport hazard class(es) -
 14.4 Packing group -
 14.5 Environmental hazard No
 14.6 Special precautions for user -
 14.7 Maritime transport in bulk according to IMO instruments . MARPOL Annex I Cargo

RID

14.1 UN number or ID number -
 14.2 UN proper shipping name -
 14.3 Transport hazard class(es) -

- 14.4 Packing group -
 14.5 Environmental hazard No
 14.6 Special precautions for user -

ADR

- 14.1 UN number or ID number -
 14.2 UN proper shipping name -
 14.3 Transport hazard class(es) -
 14.4 Packing group -
 14.5 Environmental hazard No
 14.6 Special precautions for user
 Special Provisions -
 -

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

UK REACH Registration number: UK-01-0468758243-9-0007
 OR UK: Penman Consulting Limited 42, Aspect House, Waylands Avenue, Grove Business Park, Wantage, Oxon, OX12 9FF, United Kingdom; Telephone: 01367 718474; Email: pcltd42@penmanconsulting.com.
 Location of manufacture: Neste Porvoo Refinery, Finland.

Germany

Water hazard class (WGK) slightly hazardous to water (WGK 1)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics - -	Entry number: 3 (lamp oils and grill lighter fluids)	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 2024/590

Not applicable

Other Regulations

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH).
 Classification according to Regulation (EC) No. 1272/2008 [CLP].

15.2. Chemical safety assessment

Chemical Safety Report

A Chemical Safety Assessment has been carried out for this substance

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of any hazard and/or precautionary statements referred to under Sections 2-15**

H304 - May be fatal if swallowed and enters airways

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Supersedes date 19/09/2024

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Reason for revision Updated, sections: 8

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet