SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Supercedes date	Revision date	Revision Number
09/09/2024	20/02/2026	2

Country-Language: FIN-EN

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

1.1. Product identifier

Product Name Diesel fuel, sulphur free; Neste Pro Diesel; Neste Futura Diesel

Product Code(s) 13865

Safety data sheet number 13865

Other means of identification -

Unique Formula Identifier (UFI) N63P-NXQ3-U811-AEMH

Pure substance/mixture Mixture

Contains Fuels, diesel; Renewable hydrocarbons (diesel type fraction); Distillates (Fischer-Tropsch), C8-26 - branched and linear; Petroleum diesel/gas oil fraction, co-processed with renewable hydrocarbons of plant or animal origin

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

Recommended use Use as an intermediate
Use as a fuel

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**
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
Latvia	Valsts toksikoloģijas centrs: (+371) 6704 2473
Lithuania	Farmakologinio budrumo ir apsinuodijimų informacijos skyrius (visą parą): +370 5 236 2052.
Norway	Poison Information Centre +47 22 59 13 00.
Spain	+34 91 562 04 20 (24h/7)
Sweden	När det är akut: 112, begär giftinformation. I mindre akuta fall 010-456 6700, Giftinformationscentralens direktnummer

SECTION 2: Hazards identification

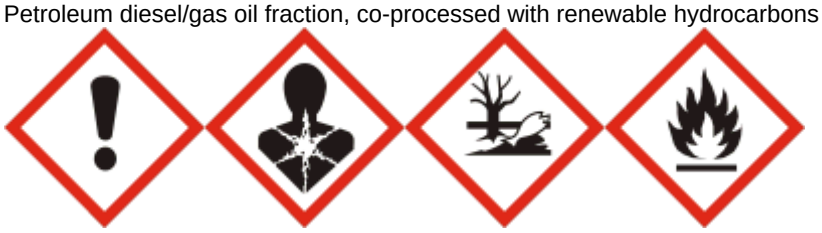
2.1. Classification of the substance or mixture

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

Flammable liquids	Category 3 - (H226)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Carcinogenicity	Category 2 - (H351)
Reproductive toxicity	Category 1B - (H360FD)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Aspiration hazard	Category 1 - (H304)
Hazardous to the aquatic environment - chronic	Category 2 - (H411)

2.2. Label elements

Contains Fuels, diesel; Renewable hydrocarbons (diesel type fraction); Distillates (Fischer-Tropsch), C8-26 - branched and linear; Petroleum diesel/gas oil fraction, co-processed with renewable hydrocarbons of plant or animal origin



Signal word
Danger

Hazard statements
H226 - Flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H332 - Harmful if inhaled
H351 - Suspected of causing cancer
H360FD - May damage fertility. May damage the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P260 - Do not breathe dust, fume, gas, mist, vapors and spray
P273 - Avoid release to the environment
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P331 - Do NOT induce vomiting

2.3. Other hazards

Evaporates slowly. Risk of soil and ground water contamination.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

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

Not applicable

3.2. Mixtures

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
Fuels, diesel 68334-30-5	0 - 100%	01-2119484664-27	269-822-7	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Acute Tox. 4 (H332) Carc. 2 (H351) Repr. 1B (H360FD) STOT RE 2 (H373) Aquatic Chronic 2 (H411)	-	-	-	-
Renewable hydrocarbons (diesel type fraction) -	0 - 80%	01-2119450077-42	700-571-2	Asp. Tox. 1 (H304) EUH066	-	-	-	-
Distillates (Fischer-Tropsch), C8-26 - branched and linear 848301-67-7	0 - 100%	01-0000020119-75	481-740-5	Asp. Tox. 1 (H304)	-	-	-	-
Petroleum diesel/gas oil fraction, co-processed with renewable hydrocarbons of plant or animal origin -	0 - 10%	01-2120091562-55	941-364-9	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Acute Tox. 4 (H332) Carc. 2 (H351) STOT RE 2 (H373) Aquatic Chronic 2 (H411)	-	-	-	-

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 >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

Additional information
Mixture of renewable raw material fuel, petroleum product and additives. Contains kerosine streams and straight-run and hydrocracked gas oil streams.

Renewable hydrocarbons (diesel type fraction) Identity outside the EU (CAS number and name of the substance): Alkanes, C10-20-branched and linear, CAS 928771-01-1.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove to fresh air. Keep affected person under observation. If breathing is difficult,

(trained personnel should) give oxygen. No hazards which require special first aid measures.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

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.

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

Symptoms Irritating to skin. May irritate eyes. Harmful by inhalation. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

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. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

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 Flammable. Risk of ignition. 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).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Do not breathe vapour or mist. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Do not touch or walk through spilled material.

For emergency responders	Be aware that gases can spread at ground level (heavier than air) and pay attention to the wind direction. Prevent unauthorized access. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges. Flash back possible over considerable distance.

6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid release to the environment. Keep out of drains, sewers, ditches and waterways. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air). 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. Keep out of drains, sewers, ditches and waterways.
Methods for cleaning up	Take up with sand, earth or other non-combustible absorbent material. Dam up. Pick up and transfer to properly labelled containers. Immediately start clean-up of the liquid and contaminated soil. 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. Take precautionary measures against static discharges. Use only outdoors or in a well-ventilated area. The product contains volatile substances which may spread in the atmosphere. Use explosion-proof electrical equipment. Do not breathe vapour or mist. Avoid contact with skin, eyes or clothing. Use personal protective equipment and/or local ventilation when needed. In case of insufficient ventilation, wear suitable respiratory equipment. During tank operations follow special instructions (risk of oxygen displacement and hydrocarbons).
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands and face before breaks and immediately after handling the product. Clear up spills immediately and dispose of waste safely.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Flammable liquid storage. Store in accordance with local regulations. Keep in properly labelled containers. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Store in a demarcated bunded area to prevent release to drains and/or watercourses.

7.3. Specific end use(s)

Risk Management Methods (RMM)	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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

Biological occupational exposure limits No information available.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Fuels, diesel 68334-30-5	-	2.9 mg/kg bw/day [4] [6]	68 mg/m³, [4] [6], Aerosol 4300 mg/m³ [4] [7], Aerosol
Renewable hydrocarbons (diesel type fraction) -	-	42 mg/kg bw/day [4] [6]	147 mg/m³ [4] [6]

[1]

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Fuels, diesel 68334-30-5	-	1.3 mg/kg bw/day [4] [6]	20 mg/m³ [4] [6], Aerosol 2600 mg/m³ [4] [7], Aerosol
Renewable hydrocarbons (diesel type fraction) -	-	18 mg/kg bw/day [4] [6]	94 mg/m³ [4] [6]

Notes
[4] Systemic 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 suitable gloves. It is recommended that gloves are made of the following material: Nitrile rubber, Polyvinyl chloride (PVC). Wear suitable gloves tested to EN 374. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Change protective gloves regularly.

Skin and body protection	Wear suitable protective clothing. 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/P3. Filter must be changed often enough. Gas and combination filter cartridges must comply with EN 14387.
Thermal hazards	No information available.
General advice	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands and face before breaks and immediately after handling the product. Clear up spills immediately and dispose of waste safely.
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
Physical state	Liquid
Colour	clear, Yellowish
Odour	Hydrocarbons, Mild
Odour threshold	-

Property	**Values**	**Remarks • Method**
Melting point / freezing point	<= 0 °C	Cloud point
Boiling point or initial boiling point and boiling range	150 - 370 °C	EN ISO 3405
Flammability	H226	
Lower and upper explosion limit/flammability limit		
Lower explosion limit	1 % (Estimated value)	
Upper explosion limit	6 % (Estimated value)	
Flash point	>= 55 °C	EN ISO 2719
Autoignition temperature	~ 220 °C	Estimated value
Decomposition temperature	-	
SADT (°C)	-	
pH	No data available	
pH (as aqueous solution)	No data available	
Kinematic viscosity	≤ 4,5 mm²/s	@ 40 °C
Dynamic viscosity	-	
Solubility	-	
Water solubility	The product has poor water-solubility < 50 mg/l @ 20°C	
Partition coefficient n-octanol/water (log value)	log Kow: > 3	
Vapour pressure	< 1	kPa @ 40 °C
Density and/or relative density	~ 0,8 - 0,85	@ 15/4 °C, EN ISO 12185
Bulk density	-	
Liquid Density	-	
Relative vapour density	-	
Particle characteristics		
Particle Size	-	
Particle Size Distribution	-	

9.2. Other information

9.2.1. Information with regards to physical hazard classes

Explosive properties	Not considered to be explosive
Oxidising properties	Does not meet the criteria for classification as oxidising

9.2.2. Other safety characteristics
Not applicable

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 Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Oxidising agent.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions.

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 Harmful if inhaled

Numerical measures of toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Fuels, diesel	> 5000 mg/kg, Rat	> 4300 mg/kg, Rabbit	3.6 - 5.4 mg/L, Rat

	(OECD 401, 420)	(OECD 434)	(4 h, OECD 403)
Renewable hydrocarbons (diesel type fraction)	>2000 mg/kg, Rat (EC B1 tris)	> 2000 mg/kg, Rat (EC B3)	-
Distillates (Fischer-Tropsch), C8-26 - branched and linear	> 5000 mg/kg, Rat	> 2000 mg/kg, Rat	-

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

Skin corrosion/irritation Causes skin irritation. The product irritates mucous membranes and may cause abdominal discomfort if swallowed. May cause respiratory irritation.

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

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

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Suspected of causing cancer. Product may contain cracked gas oil streams. Contains a known or suspected carcinogen.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
Fuels, diesel	Carc. 2
Petroleum diesel/gas oil fraction, co-processed with renewable hydrocarbons of plant or animal origin	Carc. 2

Reproductive toxicity May damage fertility. May damage the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Fuels, diesel	Repr. 1B

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

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

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 Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Fuels, diesel	EbL50, 72 hours: 10 mg/l, Pseudokirchneriella subcapitata NOEL, 72 hours: 1 mg/l, Pseudokirchneriella subcapitata WAF (OECD 201, EC C.3)	LL50, 96 hours: 21 mg/l, Oncorhynchus mykiss (Rainbow trout) NOEL, 96 hours: 10 mg/l, Oncorhynchus mykiss (Rainbow trout) WAF (OECD 203, EC C.1) NOEL, 14 days: 0,08 mg/l, Oncorhynchus mykiss (Rainbow trout) (QSAR)	EL50, 40 hours: > 1000 mg/l, Micro-organisms (wastewater sludge) NOEL, 40 hours: 3,22 mg/l, Micro-organisms (wastewater sludge) (QSAR)	EL50, 48 hours: 68 mg/l, Daphnia magna NOEL, 48 hours: 46 mg/l, Daphnia magna WAF (OECD 202, EC C.2) NOEL, 21 days: 0,2 mg/l, Daphnia magna (QSAR)
Renewable hydrocarbons (diesel type fraction)	EL50, 72 hours: > 100 mg/l, Algae WAF (OECD 201)	LL50, 96 hours: > 1000 mg/l, WAF (OECD 203)	EC50, 30-180 minutes: > 1000 mg/l, Micro-organisms (wastewater sludge) (OECD 209)	EL50, 48 hours: > 100 mg/l, WAF (OECD 202) NOEC, 21 days: 1 mg/l, LOEC, 21 days: 3,2 mg/l, WAF (OECD 211) Sediment organisms NOEC, 10 days: 373 mg/kg, LOEC, 10 days: 1165 mg/kg, LC_{50}, 10 days: 1200 mg/kg, (OSPAR Protocols, Part A: Sediment Bioassay, 2005)

12.2. Persistence and degradability

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

No significant reaction in water.

Fuels, diesel (68334-30-5)

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

Renewable hydrocarbons (diesel type fraction) (-)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready			Rapidly biodegradable

Biodegradability: CO2 Evolution Test (TG 301 B)			

12.3. Bioaccumulative potential

Bioaccumulation May bioaccumulate.
log Kow: > 3.

Component Information

Chemical name	Partition coefficient
Distillates (Fischer-Tropsch), C8-26 - branched and linear	6.5

12.4. Mobility in soil

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

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Distillates (Fischer-Tropsch), C8-26 - branched and linear	Not PBT/vPvB

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

Product causes fouling, and direct contact produces harmful effects e.g. to birds and vegetation. Adsorbed hydrocarbon residues can be harmful to sediment organisms.

Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Should not be released into the environment. Do not allow into any sewer, on the ground or into any body of water. When handling waste, the safety precautions applying to handling of the product should be considered.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out.

Waste codes / waste designations according to EWC Waste codes should be assigned by the user based on the application for which the product was used
For example:
13 07 01 fuel oil and diesel.

SECTION 14: Transport information

IATA

14.1 UN number or ID number 1202
14.2 UN proper shipping name Diesel fuel
14.3 Transport hazard class(es) 3
14.4 Packing group III
14.5 Environmental hazards Yes
14.6 Special precautions for user -

IMDG

14.1 UN number or ID number 1202
14.2 UN proper shipping name Diesel fuel
14.3 Transport hazard class(es) 3
14.4 Packing group III
14.5 Environmental hazard Marine pollutant
14.6 Special precautions for user -
14.7 Maritime transport in bulk according to IMO instruments Bulk (MARPOL 73/78, Annex I): Energy-rich fuels

RID

14.1 UN number or ID number 1202
14.2 UN proper shipping name Diesel fuel
14.3 Transport hazard class(es) 3
14.4 Packing group III
14.5 Environmental hazard Yes
14.6 Special precautions for user -

ADR

14.1 UN number or ID number 1202
14.2 UN proper shipping name Diesel fuel
14.3 Transport hazard class(es) 3
14.4 Packing group III
14.5 Environmental hazard Yes
14.6 Special precautions for user
Classification code 30
Tunnel restriction code (D/E)
-

SECTION 15: Regulatory information

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

National regulations

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 does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances 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
Fuels, diesel - 68334-30-5	75.	-

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)
P5a - FLAMMABLE LIQUIDS
P5b - FLAMMABLE LIQUIDS
P5c - FLAMMABLE LIQUIDS
E2 - Hazardous to the Aquatic Environment in Category Chronic 2

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 Chemical Safety Assessments have been carried out for these substances

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
EUH066 - Repeated exposure may cause skin dryness or cracking
H226 - Flammable liquid and vapour
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H332 - Harmful if inhaled
H351 - Suspected of causing cancer
H360FD - May damage fertility. May damage the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects

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	On basis of test data
Acute inhalation toxicity - vapour	On basis of test data
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
Chronic aquatic toxicity	Calculation method
Acute aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method
Flammable liquids	On basis of test data

Supercedes date 09/09/2024

Revision date 20/02/2026

Reason for revision Change in the mixture classification

Further information Key literature references and sources for data:

Regulations, databases, literature, own research.
CONCAWE Report 15/24: Hazard classification and labelling of petroleum substances in the European Economic Area - 2024.
Chemical Safety Report.

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

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name	Fuels, diesel
REACH registration number	01-2119484664-27
EC No. (Index No.)	269-822-7
CAS No.	68334-30-5

Section 1 - Title

Title	ES 01b - Use as an intermediate
Environmental release category(ies)	ERC6a - Use of intermediate
Specific Environmental Release Category	ESVOC SPERC 6.1a.v3
Process category(ies)	PROC 1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC 2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC 3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC 4 Chemical production where opportunity for exposure arises PROC 8a Transfer of substance or mixture (charging and discharging) at nondedicated facilities PROC 8b Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC15 - Use as laboratory reagent PROC 28 Manual maintenance (cleaning and repair) of machinery

Revision Number	2025_2
Product Name	Fuels, diesel
Sector(s) of use	SU8 - Manufacture of bulk, large scale chemicals (including petroleum products) SU9 - Manufacture of fine chemicals
Processes, tasks, activities covered	Use of substance as an intermediate (not related to Strictly Controlled Conditions). Includes recycling/ recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Amounts used

Type	Fraction of EU tonnage used in region
Value	1,0
Type	Regional use tonnage
Value	9 278 000
Units	t(ons)/year
Type	Fraction of regional tonnage used locally
Value	0,002
Type	Annual site tonnage
Value	15 000

Units	t(ons)/year
Type	Maximum daily site tonnage
Value	50
Units	t(ons)/day

Product characteristics

Remarks	Substance is complex UVCB Predominantly hydrophobic
	Common practices vary across sites thus conservative process release estimates used.

Other operational conditions of use affecting environmental exposure

Type	Continuous release
Emission days	300 d/y
Release fraction to air from process (initial release prior to RMM)	0,01
Release fraction to wastewater from process (initial release prior to RMM)	0,003
Release fraction to soil from process (initial release prior to RMM)	0,02

Conditions and measures related to municipal sewage treatment plant

Type	Not applicable as there is no release to wastewater
Assumed domestic sewage treatment plant flow	2000 m3/d
Removal efficiency fraction (offsite; STP)	0 %
Removal efficiency (total)	99 %
Remarks	Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal: 50 500 kg/d.

Environmental factors not influenced by risk management

Local freshwater dilution factor	10
Local marine water dilution factor	100

Technical onsite conditions and measures to reduce or limit discharges, air emissions

Technical onsite conditions and measures to reduce or limit discharges, air emissions	Risk from environmental exposure is driven by freshwater sediment Prevent discharge of undissolved substance to or recover from onsite wastewater If discharging to domestic sewage treatment plant, no onsite wastewater treatment required

Waste management

Air	Treat air emission to provide a typical removal efficiency of 90 %.
Water	Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= 99 %. If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of >= 99 %.
Soil	Do not apply industrial sludge to natural soils Sludge should be incinerated, contained or reclaimed

Conditions and measures related to external recovery of waste

This substance is consumed during use and no waste of the substance is generated

Conditions and measures related to external treatment of waste for disposal

This substance is consumed during use and no waste of the substance is generated

Section 2.2 - Control of worker exposure

Control of worker exposure	
Process category(ies)	Conditions of use applicable to all contributing scenarios

Covers concentrations up to	<= 100 %
Physical form of product	Liquid With potential for aerosol generation
Vapour pressure	< 0,5 kPa
Temperature associated to vapour pressure	STP
Use frequency	Covers exposure up to 8 h/d. (unless stated differently)
Operational conditions	Assumes a good basic standard of occupational hygiene is implemented Covers use at ambient temperatures (unless stated differently) General measures (skin irritants) Ensure that direct skin contact is avoided Identify potential areas for indirect skin contact. Wear suitable gloves tested to EN 374 Clear spills immediately Wash off any skin contamination immediately. For further specification, refer to section 8 of the SDS General measures applicable to all activities Minimise exposure using measures such as contained and enclosed systems, properly designed and maintained dedicated facilities and suitable general/local exhaust ventilation. Drain down and flush system prior to equipment break-in or maintenance Ensure staff are informed of and trained on the nature of exposure and basic actions to minimise exposure. Wear suitable coveralls to prevent exposure to the skin Wear suitable gloves tested to EN 374 Wear respiratory protection when its use is identified for certain contributing scenarios. Clear spills immediately Dispose of this material and its container to hazardous or special waste collection point Ensure control measures are regularly inspected and maintained Consider the need for risk based health surveillance. Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS General measures (flammability) For measures to control risks from physicochemical properties, refer to main body of the SDS, section 7 and/or 8. General measures (aspiration hazard) Do not ingest. If swallowed then seek immediate medical assistance

Process category(ies)	General exposures; Open systems (PROC 4, PROC 1, PROC 9, PROC 2, PROC 3)
Indoor/Outdoor use	Outdoor use
Assumes process temperature up to	<= 25 °C
Operational conditions	Handle substance within a closed system Sample via a closed loop or other system to avoid exposure

Process category(ies)	Laboratory activities (PROC 15)
Operational conditions	Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). No other specific measures identified Additional good practice advice Obligations according to Article 37(4) of REACH do not apply. Put lids on containers immediately after use

Process category(ies)	Bulk transfers; Closed systems; (PROC 8b)
Indoor/Outdoor use	Outdoor use
Assumes process temperature up to	<= 40 °C
Operational conditions	Handle substance within a closed system Assumes that activities are undertaken with appropriate and well maintained equipment by trained personal operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately Ensure daily cleaning of

	the equipment.

Process category(ies)	Bulk transfers; Open systems (PROC 8b)
Indoor/Outdoor use	Outdoor use
Operational conditions	Additional good practice advice Obligations according to Article 37(4) of REACH do not apply. Ensure no splashing occurs during transfer.

Process category(ies)	Equipment cleaning and maintenance (PROC 8a, PROC 28)
Operational conditions	Drain down and flush system prior to equipment break-in or maintenance Additional good practice advice Obligations according to Article 37(4) of REACH do not apply. Wear suitable coveralls to prevent exposure to the skin Clear spills immediately

Process category(ies)	Storage (PROC 2, PROC 1)
Indoor/Outdoor use	Outdoor use
Operational conditions	Store substance within a closed system

Section 3 - Exposure estimation

Calculation method

Environment
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model

Health
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated

Section 4 - Guidance to check compliance with the exposure scenario

Environment
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures
Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination
Further details on scaling and control technologies are provided in SpERC factsheet (https://www.esig.org/reach-ges/environment/#factsheets).

Health
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels
Available hazard data do not enable the derivation of a DNEL for carcinogenic and dermal irritant effects
Available hazard data does not support the need for a DNEL to be established for other health effects.
Available hazard data do not enable the derivation of a DNEL for aspiration effects.

Risk management measures are based on qualitative risk characterization.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name	Fuels, diesel
REACH registration number	01-2119484664-27
EC No. (Index No.)	269-822-7
CAS No.	68334-30-5

Section 1 - Title

Title	ES 12a - Use as a fuel ; Industrial
Environmental release category(ies)	ERC7 - Use of functional fluid at industrial site
Specific Environmental Release Category	ESVOC SPERC 7.12a.v4
Process category(ies)	PROC 1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC 2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC 8a Transfer of substance or mixture (charging and discharging) at nondedicated facilities PROC 8b Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC16 Use of fuels PROC 28 Manual maintenance (cleaning and repair) of machinery
Revision Number	2025_2
Product Name	Fuels, diesel
Processes, tasks, activities covered	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Amounts used

Type	Fraction of EU tonnage used in region
Value	1
Type	Regional use tonnage
Value	33 110 000
Units	t(ons)/year
Type	Fraction of regional tonnage used locally
Value	0,045
Type	Annual site tonnage
Value	1 500 000
Units	t(ons)/year
Type	Maximum daily site tonnage
Value	5000
Units	t(ons)/day

Product characteristics

Remarks	Substance is complex UVCB Predominantly hydrophobic

Common practices vary across sites thus conservative process release estimates used.

Other operational conditions of use affecting environmental exposure

Type	Continuous release
Emission days	300
Release fraction to air from process (initial release prior to RMM)	0,1
Release fraction to wastewater from process (initial release prior to RMM)	0,00002
Release fraction to soil from process (initial release prior to RMM)	0,001

Conditions and measures related to municipal sewage treatment plant

Type	Not applicable as there is no release to wastewater
Assumed domestic sewage treatment plant flow	2000 m3/d
Removal efficiency fraction (offsite; STP)	0
Removal efficiency (total)	98,3 %
Remarks	Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal: 5040000 kg/d.

Environmental factors not influenced by risk management

Local freshwater dilution factor	10
Local marine water dilution factor	100

Technical onsite conditions and measures to reduce or limit discharges, air emissions

Technical onsite conditions and measures to reduce or limit discharges, air emissions	Risk from environmental exposure is driven by freshwater sediment If discharging to domestic sewage treatment plant, no onsite wastewater treatment required

Waste management

Air	Treat air emission to provide a typical removal efficiency of 90 %.
Water	Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= 98,3 %. If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of >= 98,3 %.
Soil	Do not apply industrial sludge to natural soils Sludge should be incinerated, contained or reclaimed

Conditions and measures related to external recovery of waste

This substance is consumed during use and no waste of the substance is generated

Conditions and measures related to external treatment of waste for disposal

Combustion emissions limited by required exhaust emission controls. Combustion emissions considered in regional exposure assessment. External treatment and disposal of waste should comply with applicable local and/or national regulations

Section 2.2 - Control of worker exposure

Control of worker exposure	
Process category(ies)	Conditions of use applicable to all contributing scenarios
Covers concentrations up to	<= 100 %
Physical form of product	Liquid With potential for aerosol generation
Vapour pressure	< 0.5 kPa
Temperature associated to vapour pressure	STP
Use frequency	Covers exposure up to 8 h/d. (unless stated differently)
Operational conditions	Assumes a good basic standard of occupational hygiene is implemented Covers use at ambient temperatures (unless stated differently) General measures (skin irritants)

	Ensure that direct skin contact is avoided Identify potential areas for indirect skin contact. Wear suitable gloves tested to EN 374 Clear spills immediately Wash off any skin contamination immediately. For further specification, refer to section 8 of the SDS General measures (aspiration hazard) Do not ingest. If swallowed then seek immediate medical assistance General measures (flammability) For measures to control risks from physicochemical properties, refer to main body of the SDS, section 7 and/or 8. General measures applicable to all activities Minimise exposure using measures such as contained and enclosed systems, properly designed and maintained dedicated facilities and suitable general/local exhaust ventilation. Drain down and flush system prior to equipment break-in or maintenance Ensure staff are informed of and trained on the nature of exposure and basic actions to minimise exposure. Wear suitable coveralls to prevent exposure to the skin Wear suitable gloves tested to EN 374 Wear respiratory protection when its use is identified for certain contributing scenarios. Clear spills immediately Dispose of this material and its container to hazardous or special waste collection point Ensure control measures are regularly inspected and maintained Consider the need for risk based health surveillance. Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS

Process category(ies)	General exposures; Closed systems (PROC 2, PROC 1)
Indoor/Outdoor use	Outdoor use
Assumes process temperature up to	25 °C
Operational conditions	Assumes that activities are undertaken with appropriate and well maintained equipment by trained personal operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately Ensure daily cleaning of the equipment. Handle substance within a closed system Sample via a closed loop or other system to avoid exposure

Process category(ies)	Use of fuels; Closed systems (PROC 16)
Indoor/Outdoor use	Outdoor use
Assumes process temperature up to	25 °C
Operational conditions	Assumes that activities are undertaken with appropriate and well maintained equipment by trained personal operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately Ensure daily cleaning of the equipment. Handle substance within a closed system

Process category(ies)	Bulk transfers; Dedicated facility (PROC 8b)
Indoor/Outdoor use	Outdoor use
Assumes process temperature up to	25 °C
Operational conditions	Assumes that activities are undertaken with appropriate and well maintained equipment by trained personal operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately Ensure daily cleaning of the equipment. Additional good practice advice Obligations according to Article 37(4) of REACH do not apply. Ensure no splashing occurs during transfer.

Process category(ies)	Drum/batch transfers; Dedicated facility (PROC 8b)
Indoor/Outdoor use	Outdoor use
Assumes process temperature up to	25 °C

Operational conditions	Assumes that activities are undertaken with appropriate and well maintained equipment by trained personal operating under supervision. Ensure regular inspection, cleaning and maintenance of equipment and machines. Clear spills immediately Ensure daily cleaning of the equipment. Additional good practice advice Obligations according to Article 37(4) of REACH do not apply. Ensure no splashing occurs during transfer.

Process category(ies)	Equipment cleaning and maintenance (PROC 8a, PROC 28)
Operational conditions	Drain down and flush system prior to equipment break-in or maintenance Additional good practice advice Obligations according to Article 37(4) of REACH do not apply. Wear suitable coveralls to prevent exposure to the skin Clear spills immediately

Process category(ies)	Storage (PROC 2, PROC 1)
Indoor/Outdoor use	Outdoor use
Operational conditions	Store substance within a closed system

Section 3 - Exposure estimation

Calculation method

Environment
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model

Health
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated

Section 4 - Guidance to check compliance with the exposure scenario

Environment
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures
Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination
Further details on scaling and control technologies are provided in SpERC factsheet (https://www.esig.org/reach-ges/environment/#factsheets).

Health
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels
Available hazard data does not enable the derivation of a DNEL for dermal irritant effects.
Available hazard data does not support the need for a DNEL to be established for other health effects.
Available hazard data do not enable the derivation of a DNEL for aspiration effects.

Risk management measures are based on qualitative risk characterization.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name	Fuels, diesel
REACH registration number	01-2119484664-27
EC No. (Index No.)	269-822-7
CAS No.	68334-30-5

Section 1 - Title

Title	ES 12b - Use as a fuel ; Professional
Environmental release category(ies)	ERC 9a Widespread use of functional fluid (indoor) ERC 9b Widespread use of functional fluid (outdoor)
Specific Environmental Release Category	ESVOC SPERC 9.12b.v3
Process category(ies)	PROC 1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC 2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC 8a Transfer of substance or mixture (charging and discharging) at nondedicated facilities PROC 8b Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC16 Use of fuels PROC 28 Manual maintenance (cleaning and repair) of machinery
Revision Number	2025_2
Product Name	Fuels, diesel
Processes, tasks, activities covered	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Amounts used

Type	Fraction of EU tonnage used in region
Value	0,1
Type	Regional use tonnage
Value	4 291 000
Units	t(ons)/year
Type	Fraction of regional tonnage used locally
Value	0,0005
Type	Annual site tonnage
Value	2146
Units	t(ons)/year
Type	Maximum daily site tonnage
Value	5,9
Units	t(ons)/day

Product characteristics

Remarks	Substance is complex UVCB Predominantly hydrophobic Common practices vary across sites thus conservative process release estimates used.

Other operational conditions of use affecting environmental exposure

Type	Continuous release
Emission days	365
Release fraction to air from wide dispersive use (regional only)	0,5
Release fraction to wastewater from wide dispersive use	0,0001
Release fraction to soil from wide dispersive use (regional only)	0,025

Conditions and measures related to municipal sewage treatment plant

Type	Not applicable as there is no release to wastewater
Assumed domestic sewage treatment plant flow	2000 m3/d
Removal efficiency fraction (offsite; STP)	95,4 %
Removal efficiency (total)	95,4 %
Remarks	Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal: 7080 kg/d.

Environmental factors not influenced by risk management

Local freshwater dilution factor	10
Local marine water dilution factor	100

Technical onsite conditions and measures to reduce or limit discharges, air emissions

Technical onsite conditions and measures to reduce or limit discharges, air emissions	Risk from environmental exposure is driven by freshwater No wastewater treatment required

Waste management

Air	Treat air emission to provide a typical removal efficiency of 90 %.
Water	Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency of >= 0 %. If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of >= 0 %.
Soil	Do not apply industrial sludge to natural soils Sludge should be incinerated, contained or reclaimed

Conditions and measures related to external recovery of waste

This substance is consumed during use and no waste of the substance is generated

Conditions and measures related to external treatment of waste for disposal

Combustion emissions limited by required exhaust emission controls. Combustion emissions considered in regional exposure assessment. External treatment and disposal of waste should comply with applicable local and/or national regulations

Section 2.2 - Control of worker exposure

Control of worker exposure	
Process category(ies)	Conditions of use applicable to all contributing scenarios
Covers concentrations up to	<= 100 %
Physical form of product	Liquid With potential for aerosol generation
Vapour pressure	< 0.5 kPa
Temperature associated to vapour pressure	STP
Use frequency	Covers exposure up to 8 h/d. (unless stated differently)
Indoor/Outdoor use	Outdoor use
Operational conditions	Assumes a good basic standard of occupational hygiene is implemented Covers use at ambient temperatures (unless stated differently) General measures (skin irritants)

	Ensure that direct skin contact is avoided Identify potential areas for indirect skin contact. Wear suitable gloves tested to EN 374 Clear spills immediately Wash off any skin contamination immediately. For further specification, refer to section 8 of the SDS General measures (flammability) For measures to control risks from physicochemical properties, refer to main body of the SDS, section 7 and/or 8. General measures (aspiration hazard) Do not ingest. If swallowed then seek immediate medical assistance General measures applicable to all activities Minimise exposure using measures such as contained and enclosed systems, properly designed and maintained dedicated facilities and suitable general/local exhaust ventilation. Drain down and flush system prior to equipment break-in or maintenance Ensure staff are informed of and trained on the nature of exposure and basic actions to minimise exposure. Wear suitable coveralls to prevent exposure to the skin Wear suitable gloves tested to EN 374 Wear respiratory protection when its use is identified for certain contributing scenarios. Clear spills immediately Dispose of this material and its container to hazardous or special waste collection point Ensure control measures are regularly inspected and maintained Consider the need for risk based health surveillance.

Process category(ies)	Bulk transfers; Dedicated facility (PROC 8b)
Assumes process temperature up to	25 °C
Operational conditions	Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS Additional good practice advice Obligations according to Article 37(4) of REACH do not apply. Ensure no splashing occurs during transfer.

Process category(ies)	Drum/batch transfers; Dedicated facility (PROC 8b)
Assumes process temperature up to	25 °C
Operational conditions	Provide specifically designed and maintained LEV (fixed capturing hood type, on-tool extraction or enclosing hood type). Ensure effectiveness is at least 80 %. Use drum pumps Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS Additional good practice advice Obligations according to Article 37(4) of REACH do not apply. Ensure no splashing occurs during transfer.

Process category(ies)	Refuelling (PROC 8b, PROC 2)
Assumes process temperature up to	25 °C
Operational conditions	Additional good practice advice Obligations according to Article 37(4) of REACH do not apply. Ensure no splashing occurs during transfer.

Process category(ies)	Use of fuels; Closed systems (PROC 16)
Assumes process temperature up to	25 °C
Operational conditions	Handle substance within a closed system

Process category(ies)	Equipment cleaning and maintenance (PROC 8a, PROC 28)
Assumes process temperature up to	25 °C
Operational conditions	Drain down and flush system prior to equipment break-in or maintenance Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training If skin contamination is expected to extend to other parts of the body, then these

	body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS

Process category(ies)	Storage (PROC 2, PROC 1)
Operational conditions	Store substance within a closed system Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee training If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. For further specification, refer to section 8 of the SDS

Section 3 - Exposure estimation

Calculation method

Environment
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model

Health
The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated

Section 4 - Guidance to check compliance with the exposure scenario

Environment
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures
Required removal efficiency for wastewater can be achieved using onsite/offsite technologies, either alone or in combination
Required removal efficiency for air can be achieved using on-site technologies, either alone or in combination
Further details on scaling and control technologies are provided in SpERC factsheet (https://www.esig.org/reach-ges/environment/#factsheets).

Health
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented
Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels
Available hazard data does not enable the derivation of a DNEL for dermal irritant effects.
Available hazard data does not support the need for a DNEL to be established for other health effects.
Available hazard data do not enable the derivation of a DNEL for aspiration effects.
Risk management measures are based on qualitative risk characterization.

Annex to the Safety Data Sheet according to Regulation (EC) No 1907/2006 [REACH]

Product Name	Fuels, diesel
REACH registration number	01-2119484664-27
EC No. (Index No.)	269-822-7
CAS No.	68334-30-5

Section 1 - Title

Title	ES 12c - Use as a fuel ; Consumer
Environmental release category(ies)	ERC 9a Widespread use of functional fluid (indoor) ERC 9b Widespread use of functional fluid (outdoor)
Specific Environmental Release Category	ESVOC SPERC 9.12c.v3
Product category(ies)	PC13 - Fuels
Revision Number	2025_2
Product Name	Fuels, diesel
Processes, tasks, activities covered	Covers consumer uses in liquid fuels

Section 2 - Operational conditions and risk management measures

Section 2.1 - Control of environmental exposure

Amounts used

Type	Fraction of EU tonnage used in region
Value	0,1
Type	Regional use tonnage
Value	14 410 000
Units	t(ons)/year
Type	Fraction of regional tonnage used locally
Value	0,0005
Type	Annual site tonnage
Value	7205
Units	t(ons)/year
Type	Maximum daily site tonnage
Value	19,7
Units	t(ons)/day

Product characteristics

Remarks	Substance is complex UVCB Predominantly hydrophobic

Other operational conditions of use affecting environmental exposure

Type	Continuous release
Emission days	365
Release fraction to air from wide dispersive use (regional only)	0,01
Release fraction to wastewater from wide dispersive use	0,00002
Release fraction to soil from wide dispersive use (regional only)	0,005

Conditions and measures related to municipal sewage treatment plant

Type	Not applicable as there is no release to wastewater

Assumed domestic sewage treatment plant flow	2000 m3/d
Removal efficiency fraction (offsite; STP)	95,4 %
Remarks	Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal: 23800 kg/d

Environmental factors not influenced by risk management

Local freshwater dilution factor	10
Local marine water dilution factor	100

Conditions and measures related to external recovery of waste
This substance is consumed during use and no waste of the substance is generated

Conditions and measures related to external treatment of waste for disposal
Combustion emissions limited by required exhaust emission controls. Combustion emissions considered in regional exposure assessment. External treatment and disposal of waste should comply with applicable local and/or national regulations

Control of consumer exposure	
Covers concentrations up to	100%
Physical form of product	Liquid
Use frequency	Covers use up to 1.0 events per day
Operational conditions	No spraying Oral exposure is considered to be not relevant.

Product (sub) category(ies)	Fuels Liquid: automotive refuelling Diesel fuel (PC 13) Concawe_SCED_13_3_a
Amounts used	<= 44000 g/event
Exposure duration	0,05 hours
Indoor/Outdoor use	Outdoor use
Operational conditions	Assumes that potential dermal contact is limited to palm of one hand

Product (sub) category(ies)	Fuels Liquid: garden equipment - refuelling (PC 13) Concawe_SCED_13_4_a
Amounts used	<= 750 g/event
Exposure duration	0,033 hours
Operational conditions	Assumes that potential dermal contact is limited to inside hands / one hand / palm of hands.

Section 3 - Exposure estimation

Calculation method

Environment
The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model

Health
The ECETOC TRA tool has been used to estimate consumer exposures unless otherwise indicated

Section 4 - Guidance to check compliance with the exposure scenario

Environment
Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures

Health
Predicted exposures are not expected to exceed the DN(M)EL when the risk management measures/operational conditions outlined in section 2 are implemented
Available hazard data does not enable the derivation of a DNEL for dermal irritant effects.
Available hazard data does not support the need for a DNEL to be established for other health effects.
Available hazard data do not enable the derivation of a DNEL for aspiration effects.
Risk management measures are based on qualitative risk characterization.