

Safety Data Sheet as per EC Regulation No. 1907/2006

Euro Diesel without biofuel
PdNr. 460220

Date of issue: 19.01.2012
Revision Date: 16.01.2026

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name	:	Euro Diesel without biofuel
Unique Formula Identifier (UFI)	:	1YUH-EME1-2845-V2J1

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

Use of the Substance/Mixture

Intended usage	:	Operation of Diesel engines, particularly vehicle Diesel engines. Raw material for blending with biofuel.
Identified uses according to CSR (Chemical Safety Report)	:	<u>Formulation or re-packing</u> 02 - Formulation & (re)packing of substances and mixtures (classified) <u>Use at industrial sites</u> 12a - Use as a fuel - Industrial (classified) <u>Widespread use by professional workers</u> 12b - Use as a fuel: Professional (classified) <u>Consumer use</u> 12c - Use as a fuel - Consumer (classified)

For details related to the Uses please see Annex.

1.3 Details of the supplier of the safety data sheet

Full address Manufacturer, importer, supplier	:	OMV Petrom S.A. Strada Corailor Nr. 22 Sector 1 013329 București („Petrom City”) Romania
Telephone	:	+40 (0) 725 16 16 16
E-mail address of the competent person	:	info.msds@petrom.com

1.4 Emergency telephone number

+40 (0) 725 16 16 16	Emergency Line / Normal charge call / 24/7 / Romanian / English language
+40 21 599 2300	Information provided in Romanian and English; Emergency phone number: 112 (available 24/7)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (EC Regulation No 1272/2008)

Flam. Liq. 3 H226, Acute Tox. 4 H332, Skin Irrit. 2 H315, Asp. Tox. 1 H304, Repr. 1B H360FD, Carc. 2 H351, STOT RE 2 H373, Aquatic Chronic 2 H411,

For the full text of classifications referred to in this section and H-phrases and classification methods, see Section 16.

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2.2 Label elements

Labelling (EC Regulation No 1272/2008)

Hazard pictograms :



Signal word :

Hazard statements :

Danger
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 (thymus, liver, bone marrow) through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements :

Prevention:
P201 Obtain special instructions before use.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P331 Do NOT induce vomiting.
Disposal:
P501 Dispose of contents/container according to the disposal routes specified by law.

2.3 Other hazards

Remarks :

Particular danger of slipping caused by the escaped or spilled product.
Further dangers to man and environment caused by the product are not known.
The product does not meet the PBT / vPvB criteria.
The currently available information does not indicate that component substances have endocrine disrupting properties as defined by the criteria set out in Section B of Regulation (EU) No 2017/2100.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

not applicable

3.2 Mixtures

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Chemical nature	hydrocarbons Can also contain small amounts of proprietary performance-enhancing additives (max. 0,1%w/w).
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Hazardous ingredients

Chemical Name	<u>Index-No.</u> <u>CAS-No.</u> <u>EINECS-No./ELINCS No.</u> <u>Registration number</u>	Classification (EC Regulation No 1272/2008)	Concentration [%W/W]	Note
Fuels, diesel	649-224-00-6 68334-30-5 269-822-7 01-2119484664-27-0165	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Asp. Tox. 1; H304 Repr. 1B; H360FD Carc. 2; H351 STOT RE 2; H373 Aquatic Chronic 2; H411	<= 100,00	N

These values do not represent any product specification / max. possible mass percentages for classification
For the full text of classifications referred to in this section and H-phrases and classification methods, see Section 16.
N Note N in Part 3 of Annex VI to Regulation (EC) No 1272/2008

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice	: Always assess scene safety prior to attempting to rescue casualties and administering first aid. Spillages make surface slippery. Before attempting to rescue casualties, isolate area from all potential sources of ignition including disconnecting electrical supply. Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces. (Subject to applicability): Hydrogen sulphide (H2S) can accumulate in the headspace of storage tanks and reach potentially hazardous concentrations.
Inhalation	: Inhalation at ambient temperature is unlikely because of the low vapour pressure of the substance. Exposure to vapours may however occur when the substance is handled at high temperatures with poor ventilation. After inhaling the vapours during an accident affected persons are to be moved to well-ventilated area. Check vital signs regularly and act accordingly.
Skin contact	: Remove contaminated, saturated clothing immediately. Wash area with soap and water for 10 to 15 minutes.
Eye contact	: Irrigate exposed eyes with 0.9% normal saline if available or water for at least 15 minutes. Remove contact lenses. Irrigate before and after removing the lenses to prevent a carry-over of the substances to the shielded area of the lens.
Ingestion, Intake into the Lungs	: IF SWALLOWED: Immediately call a doctor. Do not induce vomiting as there is high risk of aspiration. If vomiting does occur, have victim lean forward to reduce risk of aspiration.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: By inhalation: May cause: headache, nausea, dizziness. Acute, high dose exposure may cause: central nervous system depression, confusion, altered mental status, seizures, cardiac arrhythmias. By skin contact: may cause mild irritation. By eye contact: May cause mild reversible eye irritation.
Effects	: Incidental oral exposure: aspiration hazard; may be fatal if it enters the airways after swallowing.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: Symptomatic treatment. If necessary, in-patient treatment in a hospital to be initiated. Upon the intake of doses of more than 1 to 2 ml per kg of body weight activated carbon (approx. 50 g) is to be given and the person hospitalised. Sedative medicaments (upon medical advice) to be applied in the case of strong excitation.
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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	: Foam (specifically trained personnel only); water fog (specifically trained personnel only); Dry chemical powder; Carbon dioxide; Other inert gases (subject to regulations); Sand or earth.
Unsuitable extinguishing media	: Do not use direct water jets on the burning product; they could cause splattering and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

5.2 Special hazards arising from the substance or mixture

Particular hazards due to the substance or the mixture, its products of combustion, or the gases produced during the combustion	: Evaporated product is heavier than air and rests close to the bottom. The vapours can produce an explosive mixture together with air. This substance will float and can be reignited on surface water. (Incomplete) combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates and gases, including carbon monoxide and unidentified organic and inorganic compounds. If sulphur compounds are present in appreciable amounts, combustion products may include also H₂S and SO_x (sulfur oxides) or sulfuric acid.
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5.3 Advice for firefighters

Special protecting equipment	: In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant and chemical resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Further information	: Containers in the close environment are to be cooled immediately using water spraying and removed from the dangerous zone, if possible. Fire residues and contaminated extinguishing water have to be properly disposed of in accordance with the local official regulations.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Approaching only in the direction of the wind (changes of the wind directions to be considered). Alert emergency personnel. Stop or contain leak at the source if safe to do so. Remove all the sources of ignition in the close environment. Make explosimeter measurements for determining the dangerous zone and cordon it off. Keep unconcerned persons off the site. Except in case of small spillages: The feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. In case of large spillages, alert occupants in downwind areas. If required, notify relevant authorities according to all applicable regulations. When inside buildings or confined spaces, ensure adequate ventilation. Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: gloves made of PVA (Polyvinyl Alcohol) are not water-resistant, and are not suitable for emergency use. Work helmet. Antistatic non-skid safety shoes or boots. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection: A half or full-face respirator with filter(s) for organic vapours or a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only Self Contained Breathing Apparatus's (SCBA) should be used. Avoid direct contact with released material. Avoid the formation of sparks. In the dangerous zone non explosion-proof machinery, devices, and vehicles are to be stopped, no smoking, no actuation of any switch or electrical device that may produce a spark.
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6.2 Environmental precautions

Environmental precautions	:	Stop the source of the spill, if safe to do so. Prevent entry into sewers, water courses, basements or confined areas by erecting sand and/or earth blockings or by means of other suitable blocking measures (floating barriers, skimming and other mechanical means). Contaminated absorbent material may pose the same hazard as the spilled product. Discharge into the environment must be avoided. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). (Subject to applicability): Spillages of limited amounts of products, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which are unlikely to entail exposure to dangerous concentrations.
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6.3 Methods and materials for containment and cleaning up

Suitable processes for cleaning or absorption or containment	:	Major amounts to be aspirated or pumped over. Residual amounts to be absorbed and/or contained using non-flammable absorbing material like e.g. sand, earth, or oil binding agents. Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use direct jets. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. Large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities. Collect recovered product and other materials in suitable tanks or containers for recovery or safe disposal. All waste is to be filled in properly marked hazardous goods containers and disposed of in accordance with the official regulations. Note: recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken.
Unsuitable processes for cleaning or absorption or containment	:	No data available

6.4 Reference to other sections

See also section 8 (personal protective equipment) and 13 (disposal).

Additional advice

Adopt measures according to local conditions and regulations.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Information on the safe handling	:	Obtain special instructions before use. Only to be used within a closed system. Vapours to be aspirated at the outlet point. Exhaust gas and exhaust air to be evacuated into the atmosphere only via suitable separators and/or scrubbers. If required ventilation of the room at the bottom level. Contact with the skin, eyes, and clothing to be avoided. Do not ingest. Vapours must not be inhaled. Spilling of the product to be avoided. Use and store only outdoors or in a well-ventilated area. Use personal protective equipment as required. (Subject to applicability). A specific assessment of inhalation risks from the presence of H ₂ S in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases must be made to help determine controls appropriate to local circumstances. For more information regarding protective equipment and operational conditions see Exposure scenarios.
Advice on protection against fire and explosion	:	Evaporated product is heavier than air and rests close to the bottom. Beware of accumulation in pits and confined spaces. Do not use compressed air for filling, discharging, or handling operations. The vapours can produce an explosive mixture together with air. Prevent the penetration into the sewer system and rooms at low levels. Prevent the penetration into the soil and waters. Measures against electrostatic charging to be taken. All used devices to be earthed or connected via conductors. Sources of ignition to be kept off. Explosion-proof devices / valves and non-sparking tools to be used. No smoking. Ensure that all relevant regulations regarding handling and storage facilities of flammable products are followed.

See also section 8 (personal protective equipment) and 13 (disposal).

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	: Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. All tanks and devices to be earthed or connected via conductors. Storage upon a suitable underground. Normally, a tightly sealed and resistant storage room is required. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations. Before entering storage tanks and beginning work in enclosed spaces, the air must be tested for oxygen content, air pollutants and explosive atmosphere. (Subject to applicability). If sulphur compounds are suspected to be present in the product, check the atmosphere for H₂S content. Recommended materials for containers, or container linings use mild steel, stainless steel. Unsuitable materials: Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer. If the product is supplied in containers: Keep only in the original container. Keep containers properly labelled. Protect from the sunlight. Light hydrocarbon vapours can build up in the headspace of containers. These can cause flammability / explosion hazards. Emptied containers may contain residues of flammable product. Do not weld, solder, drill, cut or incinerate empty containers, unless they have been properly cleaned.
Further information on storage conditions	: Heat influences to be avoided. Sources of ignition to be kept off.

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Advice on common storage	: Do not store together with: explosive hazardous substances (LGK 1), gases (LGK 2 A), other explosive hazardous substances (LGK 4.1 A), flammable solid hazardous substances (LGK 4.1 B), pyrophoric or self-heating hazardous substances (LGK 4.2), hazardous substances which develop flammable gases upon contact with water (LGK 4.3), highly oxidizing hazardous substances (LGK 5.1 A), ammonium nitrate and preparations containing ammonium nitrate (LGK 5.1 C), organic peroxides and self-reactive hazardous substances (LGK 5.2), non-combustible, acutely toxic cat. 1 and 2 / very toxic hazardous substances (LGK 6.1 B), infectious substances (LGK 6.2), radioactive substances (LGK 7), Restrictions for storage with: oxidizing hazardous substances (LGK 5.1 B), non-combustible hazardous substances that are of acute toxicity cat. 3 / toxic or with chronic effects (LGK 6.1 D), combustible solids (LGK 11), other combustible and non-combustible substances (LGK 10-13), Due to specific storage instructions and because of particular properties of the substances within a storage facility, other restrictions may result from the assessment of the hazards. Ensure that all relevant regulations regarding explosive atmospheres, and handling and storage facilities of flammable products, are followed.
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7.3 Specific end use(s)

Information relating to special applications	: To be used only for the intended purpose, as mentioned in Section 1.2. For information on specific uses refer to the exposure scenarios in the annex.
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values of the product

No data known

Occupational exposure limit values of the components

Components: Intentional ingredients of mixtures and/or markers for substance classification

Fuels, diesel - CAS-No.: 68334-30-5 - EINECS-No.: 269-822-7

Type	mg/m3	ppm	Exceeding coefficient	Note	Source
Exposure limit at the workplace (8 hr)	700	-	-	---	Romanian government decision no. 1218/2006

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Type	mg/m3	ppm	Exceeding coefficient	Note	Source
Short-term exposure level (STEL) at the workplace (15 min)	1.000	-	-	---	Romanian government decision no. 1218/2006

Biological limit values of the product

No data known

Biological limit values of the components

No data known

DNEL or DMEL of product

End Use: Worker, inhalation, systemic, acute

Value: 4288 mg/m3

DNEL, Most sensitive endpoint: Acute toxicity (by inhalation)

End Use: Worker, inhalation, systemic, long-term

Value: 5,49 mg/m3

DNEL, Most sensitive endpoint: repeated dose toxicity, oral;

End Use: Worker, dermal, systemic, long-term exposure

Value: 2,91 mg/kg bw/day

DNEL, Most sensitive endpoint: repeated dose toxicity, dermal,

End Use: General population, acute exposure, systemic, inhalation

Value: 2572,8 mg/m3

DNEL, Most sensitive endpoint: Acute toxicity (by inhalation)

End Use: General population, long-term exposure, systemic, inhalation

Value: 1,16 mg/m3

DNEL, Most sensitive endpoint: repeated dose toxicity, oral;

End Use: General population, long-term exposure, systemic, dermal

Value: 1,25 mg/kg bw/day

DNEL, Most sensitive endpoint: repeated dose toxicity, dermal,

End Use: General population, long-term exposure, systemic, oral

Value: 0,83 mg/kg bw/day

DNEL, Most sensitive endpoint: repeated dose toxicity, oral;

PNEC of product

The main component of the product is a substance of a variable or unknown, complex hydrocarbon composition.

The conventional methods for the determination of PNECs are not appropriate and it is not possible to determine a single representative PNEC for this type of substances.

8.2 Exposure controls

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To be used only for the intended purpose, as mentioned in Section 1.2., For information on specific uses refer to the exposure scenarios in the annex.

General safety measures

Hygiene measures	:	Ensure that proper housekeeping measures are in place. Any contact with the eyes, the skin, and clothing to be avoided. Clothing contaminated by that substance to be changed immediately and not to be reused before its cleaning.
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Personal protective equipment

Respiratory protection	:	When vapours are produced: respiratory protecting and filtering device with gas filter A, characteristic colour: brown (A1 up to 0,1 % vv, A2 up to 0,5 % vv, A3 up to 1 % vv) to be used. In the case of high concentrations and ambiguous situations a respiratory protecting device independent from the ambient air (breathing apparatus) to be used.
Hand protection	:	Because of the great number of influence factors (e.g. temperature, mechanical stress) the duration of use of the recommended chemical protection gloves can be shorter than the penetration time determined in accordance with EN 374. In case of possible hand contact, wear liquid-proof protective gloves. Material: Nitrile; Break through time: 480 min Material thickness: 0,40 mm Test method: DIN EN 374 Material: Viton; Break through time: 480 min Material thickness: 0,70 mm Test method: DIN EN 374 Material: Butyl; Break through time: 120 min Material thickness: 0,70 mm Test method: DIN EN 374 Material: Polychloroprene; Break through time: 120 min Material thickness: 0,65 mm Test method: DIN EN 374
Eye/face protection	:	Safety glasses with side-shields. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated.
Body protection	:	Permanently flame-retardant and permanently antistatic protective clothing to be used. Work helmet. Antistatic non-skid safety shoes or boots. If necessary heat-resistant.

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Limitations and supervision of the exposure of the environment

Limitations and supervision of the exposure of the environment	:	Use preferably closed apparatuses. At risk of exposure, suitable extraction should be carried out. Emission limits to be respected, cleaning of the exhaust air to be provided (if required). Also refer to section 6 "Accidental release measures".
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Additional advice

In a concrete case and following an individual assessment of the hazards another personal protecting equipment may be required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	light yellowish
Odour	:	petroleumesque
Odour threshold	:	Odour clearly perceptible

Characteristics	Values	Method	Note
Melting point/Freezing point	< -10 °C	EN 23015	Pour Point
Initial boiling point	approx. 160 °C	EN ISO 3405	
Final boiling point	approx. 370 °C	EN ISO 3405	
Flammability			flammable Chemical Safety Report (CSR) fuels, diesel
Lower explosion limit	approx. 0,6 %(V)		Literature data (Hommel)
Upper explosion limit	approx. 6,5 %(V)		Literature data (Hommel)
Flash point	> 55 °C	EN ISO 2719	
Auto-ignition temperature	>= 225 °C		Chemical Safety Report (CSR) Fuels, diesel
Decomposition temperature			not determined
pH			not applicable
Viscosity, kinematic	2,0 - 4,0 mm ² /s at 40 °C	EN ISO 3104	
Water solubility			practically insoluble
Solubility (other solvents)			Fat solubility: not determined
Partition coefficient (n-octanol/water)			no data available
Vapour pressure	<= 1 kPa at 37,8 °C	EN 13016-1	
Density	815 - 841,5 kg/m ³ at 15 °C	EN ISO 12185, EN ISO 3675	
Relative density			not relevant

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Relative vapour density			not determined
Particle characteristics			not relevant, product is liquid

9.2 Other information

Information with regard to physical hazard classes

Characteristics relevant for product	Values	Method	Note
Explosives		Derivation from chemical structure	not explosive; no chemical groups associated with explosive properties in the molecule (CSR Concawe) Fuels, diesel
Oxidising liquids		Derivation from chemical structure	not oxidizing; not able of reacting exothermically with combustible materials (CSR Concawe) Fuels, diesel

Other safety characteristics

no relevant information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Chemically stable under normal storage and handling conditions, and as per the conditions in section 7.

10.2 Chemical stability

Chemically stable under normal storage and handling conditions, and as per the conditions in section 7.

10.3 Possibility of hazardous reactions

Hazardous reactions

- : Explosive vapour/air mixtures can still be present, even inside empty, uncleaned containers.
If strongly heated: Danger of spontaneous combustion
Reactions with oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid

- : Keep away from heat sources, open flames and other ignition sources

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10.5 Incompatible materials

Materials to avoid : strong acids and oxidizing agents;

10.6 Hazardous decomposition products

Hazardous decomposition products : not determined

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Additional advice

Invisible vapour, heavier than air

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute toxicity

Acute oral effect	:	LD50 rat, Method: OECD 420 Test substance: 68334-30-5 Dose: approx. 7.600 mg/kg bw
Acute inhaling effect	:	LC50 rat, Dose: 3,6 mg/l / 4 h Method: OECD 403 Test substance: 68334-30-5
Acute dermal effect	:	LD50 rabbit Dose: > 5 ml/kg bw Method: OECD 434 Test substance: 68334-30-5 (approx. >4.300 mg/kg bw/day)
Acute effect (other)	:	no data available
Other effects	:	no information

Skin corrosion/irritation

Skin irritation	:	rabbit Result: Irritating to skin. Method: OECD 404 Test substance: 68334-30-5
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Serious eye damage/irritation

Eye irritation	:	rabbit Result: not irritating Method: OECD 405 Test substance: 68334-30-5 Temporary irritation possible
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Respiratory or skin sensitisation

sensitisation	:	Method: OECD 406 Test substance: 68334-30-5 No indication of sensitizing effect
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Germ cell mutagenicity

Genotoxicity in vitro	:	Ames test Result: negative with metabolic activation Method: Modified Ames Test according to ASTM E 1687 Test substance: 68334-30-5
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Genotoxicity in vivo	: micronucleus assay (cytogenicity) Test substance: 68476-30-2 Method: OECD 474 Result: negative
	: Chromosome aberration test Test substance: 64741-44-2 Method: OECD 475 Result: negative
Toxicological Assessment Germ cell mutagenicity	: Based on available data, the classification criteria are not met., not classified as mutagenic.

Carcinogenicity

Carcinogenic effect	: Test substance: 10 middle distillates Method: not determined Carcinogenicity test on the mouse dermal, Result: positive LOAEL Dose: 25 mg/kg/bw/day chronic mouse
Toxicological Assessment Carcinogenicity	: Classified under the EU Regulation CLP (EC) 1272/2008 category 2 H351

Toxicity to reproduction

Reproduction toxicity/fertility	: Application Route: oral; rat, Test substance: distillates, heavy, C18-50 – branched, cyclic and linear Method: US EPA Health Effects Test Guideline OPPTS 870.3800 and OECD 416 NOAEL (F1); Dose: 1000 mg/kg bw/day
	: Application Route: oral; rat, Test substance: 64741-58-8 Method: OECD 422 NOAEL (F1); Dose: 1000 mg/kg bw/day
Developmental toxicity/teratogenicity	: Application Route: dermal; rat, Test substance: 64741-49-7 Method: OECD 414 NOAEL Dose: 125 mg/kg/d (maternal/developmental toxicity)
	: Application Route: dermal; rat, Test substance: 68334-30-5 Method: OECD 422 NOAEL (P0, F1) Dose: 750 mg/kg/d
Toxicological Assessment Developmental toxicity/teratogenicity Reproduction toxicity/fertility	: Classified under the EU Regulation CLP (EC) 1272/2008; H360FD, May damage fertility. May damage the unborn child.

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Specific Target Organ Toxicity - Single exposure

Specific Target Organ Toxicity - Single exposure	:	Based on available data, the classification criteria are not met.
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Specific Target Organ Toxicity - Repeated exposure

Effect upon repeated or longtime exposure	:	The mixture meets the criteria given in Regulation (EC) No 1272/2008: Based on the available data, the product is classified in respect to specific target organ toxicity upon repeated exposure.
	:	May cause damage to organs (thymus, liver, bone marrow) through prolonged or repeated exposure.
	:	NOEL dermal Dose: 0,5 ml/kg (systemic) 0,0001 ml/kg (local) Method: OECD 410
	:	NOAEC (inhalation) dose: >1,71 mg/l/90d (systemic); 0,88 mg/l/90 d (local); method: OECD 413; test substance: most likely 68334-30-5
	:	NOAEL oral Dosis: 1000 mg/kg bw/day Method: OECD 422 Test substance: 68334-30-5

Aspiration hazard

Aspiration toxicity	:	The mixture meets the criteria given in Regulation (EC) No 1272/2008: Aspiration hazard, Category 1; H304
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Neurological effects

Neurological effects	:	no data available
Narcotic effect	:	High concentrations may cause narcotic effects.

Toxicological Assessment

Acute effects	:	The mixture meets the criteria given in Regulation (EC) No 1272/2008: Acute Tox. 4 H332, Harmful if inhaled.
Sensitization	:	No sensitizing characteristics, Based on available data, the classification criteria are not met.
Repeated dose toxicity	:	The mixture meets the criteria given in Regulation (EC) No 1272/2008: Based on the available data, the product is classified in respect to specific target organ toxicity upon repeated exposure., May cause damage to organs (thymus, liver, bone marrow) through prolonged or repeated exposure.

Other information

Data above are for the main component, CAS-Nr. 68334-30-5 (unless stated differently)

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11.2 Information on other hazards

Endocrine disrupting properties	:	The currently available information does not indicate that component substances have endocrine disrupting properties as defined by the criteria set out in Section B of Regulation (EU) No 2017/2100.
Other information	:	no data available

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute toxicity

Acute toxicity for fish	:	LL50 Species: Oncorhynchus mykiss (rainbow trout) Dose: 65 mg/l Exposure time: 96 h Method: OECD 203
		NOELR Species: Oncorhynchus mykiss (rainbow trout) Dose: 10 mg/l Exposure time: 96 h Method: OECD 203
Acute toxicity for aquatic invertebrates	:	NOELR Species: Daphnia magna (large water flea) Dose: 46 mg/l Exposure time: 48 h Method: OECD 202
Toxicity for algae and aquatic plants	:	ErL50 Species: Raphidocelis subcapitata/Pseudokirchneriella subcapitata Dose: 22 mg/l Exposure time: 72 h Method: OECD 201
Toxicity for micro-organisms	:	NOEC Species: Activated sludge Dose: > 10 mg/l Exposure time: 3 h Test substance: 64741-49-7 Method: OECD 209

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		EC50 Species: Activated sludge Dose: > 1.000 mg/l Exposure time: 3 h Test substance: 64741-49-7 Method: OECD 209
Toxicity to edaphic organisms	:	LR50 Species: Eisenia fetida (annelids) Dose: 772 - 3777 mg/kg soil d.w. Exposure time: 28 d Method: QSAR based on: mortality
Toxicity for terrestrial plants	:	LL50 Species: Avena sativa (Monocotyledonae (monocots)) Dose: 1856 - 9708 mg/kg soil, dry weight Exposure time: 14 d Method: QSAR
		LL50 Species: Brassica rapa Dose: 1198 - 6268 mg/kg soil, dry weight Exposure time: 14 d Method: QSAR
Toxicity to other terrestrial non -mammalian organisms	:	no data available

Chronic toxicity

Toxicity to fish (Chronic toxicity)	:	EL10 Species: Pimephales promelas Dose: 0,23 - 1,32 mg/l Exposure time: 32 d Method: QSAR
Toxicity to daphnia and other aquatic invertebrates. (Chronic toxicity)	:	EL10 Species: Daphnia magna Dose: 0,21 - 1,14 mg/l Exposure time: 21 d Method: (Q)SAR

Ecotoxicological Assessment

Aquatic Acute	:	No classification criteria for acute aquatic toxicity
Aquatic Chronic	:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Toxicity Data on Soil	:	no data available
Other organisms relevant to the environment	:	no data available

12.2 Persistence and degradability

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Persistence,Biodegradability	:	Not readily biodegradable.
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12.3 Bioaccumulative potential

Bioaccumulation	:	No convincing data available. Bioaccumulative potential (Partition coefficient (n-octanol/water)): no data available
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12.4 Mobility in soil

Mobility	:	Remarks: Do not allow the product to be released uncontrolled into the environment.
Transport between environmental compartments	:	no data available
Physical-chemical eliminability	:	The product is insoluble and floats on water. May be separated mechanically in waste water plants.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	:	The main component of the product is a substance of a variable or unknown, complex hydrocarbon composition. The available analytical methodology has not yet been validated for classification purposes to give conclusive measurement of constituents that are either SVHC or screened as PBT/vPvB (reference 2024 Concawe PBT Report rev.3) in UVCB substances.
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12.6 Endocrine disrupting properties

Endocrine disrupting properties	:	The currently available information does not indicate that component substances have endocrine disrupting properties as defined by the criteria set out in Section B of Regulation (EU) No 2017/2100.
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12.7 Other adverse effects

Other adverse effects	:	Prevent from entering sewage system, water bodies and ground. In the case of accidents call for assistance by professional oil-fighting forces.
	:	Data above are for the main component, CAS-Nr. 68334-30-5 (unless stated differently)

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Information on the disposal of the product	:	Product residues are to be disposed of in accordance with the legal stipulations.
Contaminated packaging	:	If the product has been supplied within a packaging, the empty original containers are to be reused preferably or, if this is not possible, they are to be recycled preferably. Do not weld, solder, drill, cut or incinerate empty containers, unless they have been properly cleaned.
Waste code according to European List of Wastes when using as described in Section 1.:		
Waste from residues	:	13 07 01* fuel oil and Diesel
Contaminated packaging	:	15 01 10* packaging which contain residues of hazardous substances or which are contaminated by hazardous substances

Additional advice

The Waste Code depends on the origin of the waste and can deviate from the above data in a specific case.

Final decisions on the appropriate waste management method, in line with regional, national and European legislation, and possible adaptation to local conditions, remains the responsibility of the waste treatment operator.

Legislation on the disposal of product wastes:

Emergency Ordinance no. 92/2021 on the waste management, as further amended;

Ordinance of the Minister for Water Management and Protection of the Environment no. 756/2004 in view of the approval of the technical regulations concerning the incineration of wastes;

Government Ordinance no. 2/2021 on the storage of wastes;

Government Decision no. 856/2002 on the documentary evidence to be submitted by the waste management companies and on the approval of the wastes lists, including the hazardous wastes, as further amended and completed;

Government Decision 1061/2008 for the transport of hazardous and non-hazardous goods inside Romania.

Legal stipulations on packing wastes:

Order no. 794/2012 on the procedure to report data concerning packaging and packaging waste;

Law no. 249/2015 on the management of packaging and packaging wastes, as further amended and completed;

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SECTION 14: TRANSPORT INFORMATION



Road transport (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 hazards	:	yes
14.6	Special precautions for user	:	See section 7 and references therein.

Further information

Number to designate the hazard	:	30
ADR/RID-Labels	:	3
Classification Code	:	F1
Tunnel restriction code	:	(D/E)
Advice	:	Danger Label No 3, Fish and tree - Environmentally hazardous substance mark, Special provision 640L

Rail transport (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 hazards	:	yes
14.6	Special precautions for user	:	See section 7 and references therein.

Further information

Number to designate the hazard	:	30
ADR/RID-Labels	:	3
Classification Code	:	F1

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Advice	:	Danger Label No 3, Fish and tree - Environmentally hazardous substance mark, Special provision 640L
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Inland navigation with tanker barges (ADN)

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	:	See section 7 and references therein.

Further information

Advice	:	(N2+F)
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Sea transport (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	Marine pollutant	:	yes
14.6	Special precautions for user	:	See section 7 and references therein.
14.7	Maritime transport in bulk according to IMO instruments	:	MARPOL Annex 1

Further information

ICAO hazard labels	:	3
EmS	:	F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

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	:	See section 7 and references therein.

Further information

ICAO hazard labels	:	3
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Additional advice

In case of need further information on the transport classification can be requested from the producer.

SECTION 15: REGULATORY INFORMATION

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

Community provisions on the protection of the health and the environment

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control) - Chapter V - Special provisions for installations and activities using organic solvents.	:	When properly used, product is not subject to VOC-Guideline (see Section 1.2).
Regulation (EC) no. 1907/2006, Annex XVII (REACH-regulation)	:	No. 3: Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.
Directive 2012/18/EU of the European Parliament and of the Council of 4 July 2012 on the control of major-accident hazards involving dangerous substances, amending and subsequently repealing Council Directive 96/82/EC (SEVESO III).	:	Annex I, Part 1: P5c FLAMMABLE LIQUIDS E2 Hazardous to the Aquatic Environment in Category Chronic 2. Annex I Part 2: 34. Petroleum products and alternative fuels. (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams).
Council Directive 92/85/EEC of 19 October 1992 on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding (tenth individual Directive within the meaning of Article 16 (1) of Directive 89/391/EEC)	:	This product is subject to the restrictions set by the national legislation transposing the Directive.
Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work	:	This product is subject to the restrictions set by the national legislation transposing the Directive.

Other regulations:

Regulation (CE) 1272/2008 on the classification, labelling and packaging of substances and mixtures, the amendment and repeal of Directives 67/548/CEE and 1999/45/CE, as well as amendment of Regulation (CE) 1907/2006, as further amended and completed.

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Law no. 360/2003 on the handling of dangerous chemical substances and preparations, as further amended and completed;
Government Decision no. 1093/2006 for determining the minimum requirements to the safety and health of the workforce in view of preventing the risks of an exposure to carcinogenic or mutagenic substances at the workplace, as further amended and completed;
Regulation (EC) no. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as further amended and completed;
Government Decision 477/2009 on the fixing of punitive measures in the event of contravention of the rules of Regulation (EC) 1.907/2006 of the European Parliament and Council on the registration, evaluation, approval and demarcation of chemical materials (REACH), for the founding of the European chemicals agency, the amendment of Directive 1999/45/EC and the repeal of Regulation (EEC) 793/93 of the Council and Regulation (EC) 1.488/94 of the Commission, as well as Directive 76/769/CEE of the Council and Directives 91/155/CEE, 93/67/CEE, 93/105/CE and 2000/21/CE of the Commission.
Government Decision 398 /2010 on the fixing of measures for the adherence to the rules of Regulation (EC) 1.272/2008 of the European Parliament and Council dated 16 December 2008 on the classification, labelling and packaging of materials and mixtures, the amendment and repeal of Directives 67/548/CEE and 1.999/45/CE, as well as amendment of Regulation (CE) 1.907/2006, as further amended and completed .
Law no. 319/2006 on the safety and health at work as further amended and completed;
Government Decision no. 1218/2006 on the determination of the minimum requirements to the safety and health of the workforce in view of preventing risks caused by chemical substances, as further amended and completed;
Emergency ordinance 122/2010 establishing the penalties applicable for breaches of provisions in the Regulation (EC) 1.272/2008 of the European Parliament and Council dated 16 December 2008 on the classification, labelling and packaging of materials and mixtures, the amendment and repeal of Directives 67/548/EEC and 1.999/45/EC, as well as amendment of Regulation (EC) 1.907/2006, as further amended.
Law no.59/2016 on the control of major accident hazards involving dangerous substances, as further amended.
Emergency ordinance 96/2003 concerning the motherhood protection at workplace, as further modified and completed.
Government Decision 600/2007 concerning the protection of young people at workplace, as further modified and completed.
Government Decision 893/2006 for amending Government Decision 1.593/2002 regarding approval of National Plan for preparedness, response and cooperation in case of marine pollution by hydrocarbons.

15.2 Chemical Safety Assessment

A chemical safety assessment for the main constituent was performed within the framework of the REACH registration. It was verified that control of the main constituent as a lead substance ensures appropriate control of all other constituents of the mixture. Therefore, the scenarios listed in the Annex are those developed for the main substance. CAS-NR.: 68334-30-5

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
Asp. Tox.	Aspiration hazard
Carc.	Carcinogenicity
Flam. Liq.	Flammable liquids
Repr.	Reproductive toxicity
Skin Irrit.	Skin corrosion/irritation
STOT RE	Specific target organ toxicity - repeated exposure
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 (thymus, liver, bone marrow) through prolonged or repeated exposure.

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H411

Toxic to aquatic life with long lasting effects.

Further information

Other information	: Overall updates from the previous main version, not marked as stated at Additional advice, have been implemented in: Section 1.4 Section 2.2 Section 4.1 Section 5.1 Section 5.3 Section 11.1 Section 12.1 Section 16 Annex
	List of acronyms: (Q)SAR = Quantitative Structure Activity Relationship ADN = European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR = Agreement Concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = bioconcentration factor CAS-No = Chemical Abstracts Service number CMR = Carcinogen, Mutagen, or toxic to Reproduction CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EC50 = The effective concentration of substance that causes 50% of the maximum response. ECHA = European Chemicals Agency EC-Number = EINECS and ELINCS Number (see also EINECS and ELINCS) EINECS = European Inventory of Existing Commercial Chemical Substances EL50 = effective load 50% ELINCS = European List of notified Chemical Substances EPA = Environmental Protection Agency(U.S.) GES = Generic Exposure Scenario HFO = heavy fuel oil IATA = International Air Transport Association IC50 = inhibition concentration 50% ICAO-TI = Technical Instructions for the Safe Transport of Dangerous Goods by Air IMDG = International Maritime Dangerous Goods IOELV = substance with a Union workplace exposure limit Kow = octanol-water partition coefficient Koc = soil organic carbon-water partitioning coefficient LC50 = Lethal Concentration to 50 % of a test population LD50 = Lethal Dose to 50% of a test population (Median Lethal Dose) LL50 = Lethal Load 50% LOAEC = Lowest Observed Adverse Effect Concentration LOAEL = Lowest Observed Adverse Effect Level NOAEC = No Observed Adverse Effect Concentration NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration NOEL = No Observed Effect Level OECD = Organization for Economic Co-operation and Development BLV = Biological Limit Value OEL = Occupational Exposure Limit

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	OSHA = European Agency for Safety and Health at work PBT = Persistent, Bioaccumulative and Toxic substance PEC = Predicted Effect Concentration PNEC = Predicted No Effect Concentration REACH = Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals RID = Regulations concerning the International Carriage of Dangerous Goods by Rail RMM = Risk Management Measure SVHC = Substances of Very High Concern TRA = Targeted Risk Assessment TLV = Threshold Limit Value STEL = Short term exposure limit TWA = Time-Weighted Average UVCB = substance of unknown or variable composition, complex reaction products or biological materials vPvB = very Persistent and very Bioaccumulative LGK = Storage class TRGS = Technical Rules for Hazardous Substances (Germany)
Advice on training for workers	: Education and training of workers in understanding the hazards and control measures relevant to their activities.

Sources of information	: Chemical Safety Report (CSR) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: Flam. Liq. 3 H226 - On basis of test data Acute Tox. 4 H332 - Calculation method Skin Irrit. 2 H315 - Calculation method Asp. Tox. 1 H304 - On basis of test data Carc. 2 H351 - Calculation method Repr. 1B H360FD - Calculation method STOT RE 2 H373 - Calculation method Aquatic Chronic 2 H411 - Calculation method
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Markings (I) in the left border and/or text in red indicate changes in the previous main version.

The above data are in accordance with our knowledge and experience at the given date of revision and exclusively refer to the product in its as-delivered condition as it is unambiguously identifiable by the product number. In the case of usages deviating from those given in section 1 or when the product is mixed with other materials or is altered in the course of a production process, the statements given in the material safety data sheet may not apply without restrictions or even not at all any more. The data are not applicable to other products of the same or a similar designation.

The product should not be used other than for the stated application or applications without seeking advice from the supplier.

It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

You can contact the supplier to ensure that this document is the most current available.

Alteration of this document is strictly prohibited.

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Annex

The exposure scenarios for the most frequent applications are listed below. If required, other exposure scenarios will be provided upon request.

1. Brief title of the Exposure Scenario: 02 - Formulation & (re)packing of substances and mixtures (classified)

Life-cycle stage	: F: Formulation or re-packing
Sector of use	: not applicable
Process category	: PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition PROC4: Chemical production where opportunity for exposure arises PROC5: Mixing or blending in batch processes PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC14: Tableting, compression, extrusion, pelletisation, granulation PROC15: Use as laboratory reagent PROC28: Manual maintenance (cleaning and repair) of machinery
Environmental release category	: ERC2: Formulation into mixture
Further information	: Specific Environmental Release Category ESVOC SpERC 2.2.v3
Processes, tasks, activities covered	: Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, maintenance, sampling and associated laboratory activities.

2.1 Contributing scenario controlling environmental exposure for:

ERC2, Formulation into mixture

Amount used

Regional use tonnage (tonnes/year)	: 2,3 10E8
Annual site tonnage (tonnes/year)	: 30.000
Maximum daily site tonnage (kg/day)	: 100
Fraction of EU tonnage used in region	: 1,0
Fraction of Regional tonnage used locally	: 0,001
Remarks	: Substance is complex UVCB. Predominantly hydrophobic.
MSafe (maximum allowable site tonnage)	: 101.000 kg/day
Remarks	: Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal

Frequency and duration of use

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Continuous exposure : 300 Emission days (days/year),
Continuous release.

Environmental factors not influenced by risk management

Local freshwater dilution factor : 10
Local Marine water dilution factor : 100

Other given operational conditions affecting environmental exposure

Emission or Release Factor: Air : 0,5 %
Emission or Release Factor: Water : 0,002 %
Emission or Release Factor: Soil : 0,03 %
Remarks : Release to water is release to wastewater. Release fraction to air from process (after typical onsite RMMs consistent with EU Solvent Emissions Directive requirements)
Release factors water and soil refer to initial release prior to RMM.

Technical conditions and measures / Organizational measures;

Air : Treat air emission to provide a typical removal efficiency of:
90,0 %
Water, : Treat onsite wastewater (prior to receiving water discharge) to provide the required
removal efficiency >= (%):
99,2 %
Water, : If discharging to domestic sewage treatment plant, provide the required onsite
wastewater removal efficiency of >= (%):
99,2 %
Remarks : Common practices vary across sites thus conservative process release estimates used.
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.

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant : Domestic treatment plant
Flow rate of sewage treatment plant effluent : 2.000 m3/d
Effectiveness (STP) : 0,0 %
Total removal from wastewater according to : 1,0 %
internal and external location measures
Sludge Treatment : Organisation measures to prevent/limit release from site: Do not apply industrial sludge
to natural soils. Sludge should be incinerated, contained or reclaimed.
Remarks : Conditions and measures related to municipal sewage treatment plant.; Not applicable
as there is no release to wastewater.

Conditions and measures related to external treatment of waste for disposal

Waste treatment : External treatment and disposal of waste should comply with applicable local and/or
national regulations.

Conditions and measures related to external recovery of waste

Recovery Methods : External recovery and recycling of waste should comply with applicable local and/or
national regulations.

2.2 Contributing scenario controlling worker exposure for:

- PROC1 : Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.**
- PROC2 : Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions**
- PROC3 : Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition**

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- PROC4** : Chemical production where opportunity for exposure arises
PROC5 : Mixing or blending in batch processes
PROC8a : Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC8b : Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9 : Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC14 : Tableting, compression, extrusion, pelletisation, granulation
PROC15 : Use as laboratory reagent
PROC28 : Manual maintenance (cleaning and repair) of machinery

Product characteristics

Concentration of the Substance in Mixture/Article	Covers percentage substance in the product up to 100 % (unless stated differently)
Physical Form (at time of use)	: Liquid, with potential for aerosol generation
Vapour pressure	: Vapour Pressure is given at STP. < 5 hPa
Remarks	: Assumes a good basic standard of occupational hygiene is implemented, Covers use at ambient temperatures (unless stated differently).

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently)	: 8 h
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Technical conditions and measures

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.

General Measures (flammability).

For measures to control risks from physicochemical properties, refer to main body of the SDS, section 7 and/or 8.

General exposures (closed systems).

(PROC 1, PROC 2, PROC 3, PROC 4, PROC 9)

Handle substance within a closed system. Sample via a closed loop or other system to avoid exposure.

Manual; Transfer from/pouring from containers; Non-dedicated facility

(PROC 8a)

Use drum pumps. Provide a good standard of controlled ventilation (5 to 10 air changes per hour).

Bulk transfers. Dedicated facility.

(PROC 8b)

Handle substance within a closed system.

Mixing operations (open systems)

(PROC 5)

Provide extract ventilation to points where emissions occur.

Tabletting, compression, extrusion or pelletisation

(PROC 14)

Provide local exhaust ventilation: Yes, specifically designed fixed capturing hood, on tool extraction or enclosing hoods (assumed effectiveness $\geq 90-95\%$).

Laboratory activities

(PROC 15)

Provide local exhaust ventilation: Yes, specifically designed fixed capturing hood, on tool extraction or enclosing hoods (assumed effectiveness $\geq 90-95\%$).

Equipment cleaning and maintenance.

(PROC 8a, PROC 28)

Drain down and flush system prior to equipment break-in or maintenance.

Storage.

(PROC 1, PROC 2)

Store substance within a closed system.

Organisational measures to prevent /limit releases, dispersion and exposure:

General measures applicable to all activities

Ensure staff are informed of and trained on the nature of exposure and basic actions to minimise exposure. Ensure control measures are regularly inspected and maintained. Consider the need for risk based health surveillance.

General Measures (flammability).

For measures to control risks from physicochemical properties, refer to main body of the SDS, section 7 and/or 8.

General exposures (closed systems).

(PROC 1, PROC 2, PROC 3, PROC 4, PROC 9)

Outdoor use.

Bulk transfers. Dedicated facility.

(PROC 8b)

Outdoor use.

Mixing operations (open systems)

(PROC 5)

Indoor use. Covers open baths or reservoirs with surface $< 3 \text{ m}^2$.

Drum/batch transfers; Dedicated facility (PROC8b)

Outdoor use.

Storage.

(PROC 1, PROC 2)

Outdoor use.

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Conditions and measures related to personal protection, hygiene and health evaluation

General measures applicable to all activities

Wear suitable coveralls to prevent exposure to the skin. Wear suitable gloves tested to EN374. Wear respiratory protection when its use is identified for certain contributing scenarios. Clear spills immediately. Dispose of this material and its container at hazardous or special waste collection point.

General measures (skin irritants)

Ensure that direct skin contact is avoided. Identify potential areas for indirect skin contact. Wear suitable gloves tested to EN374. 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).

Do not ingest. If swallowed then seek immediate medical assistance.

Manual; Transfer from/pouring from containers; Non-dedicated facility

(PROC 8a)

Wear chemically resistant gloves (tested to EN374) 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.

Bulk transfers. Dedicated facility.

(PROC 8b)

Wear chemically resistant gloves (tested to EN374) 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.

Mixing operations (open systems)

(PROC 5)

Wear chemically resistant gloves (tested to EN374) 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.

Tabletting, compression, extrusion or pelletisation

(PROC 14)

Wear suitable gloves tested to EN374. 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.

Drum/batch transfers; Dedicated facility (PROC8b)

Wear suitable gloves tested to EN374. 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.

Laboratory activities

(PROC 15)

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.

Equipment cleaning and maintenance.

(PROC 8a, PROC 28)

Wear chemically resistant gloves (tested to EN374) 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.

Wear suitable coveralls to prevent exposure to the skin. Clear spills immediately.

3. Exposure estimation and reference to its source

3.1. Health:

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

3.2. Environment:

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

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

4.1. 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 do not enable the derivation of a DNEL for dermal irritant effects. 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 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 characterisation.

4.2. 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 onsite technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (<https://www.esig.org/reaches/environment/#factsheets>)

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1. Brief title of the Exposure Scenario: 12a - Use as a fuel - Industrial (classified)

Life-cycle stage	: IS: Use at industrial sites
Sector of use	: not applicable
Process category	: PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC16: Use of fuels PROC28: Manual maintenance (cleaning and repair) of machinery
Environmental release category	: ERC7: Use of functional fluid at industrial site
Further information	: Specific Environmental Release Category ESVOC SpERC 7.12a.v4
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.

2.1 Contributing scenario controlling environmental exposure for:

ERC7, Use of functional fluid at industrial site

Amount used

Regional use tonnage (tonnes/year)	: 33,1 10E6
Annual site tonnage (tonnes/year)	: 1,5 10E6
Maximum daily site tonnage (kg/day)	: 5,0 10E3
Fraction of EU tonnage used in region	: 1,0
Fraction of Regional tonnage used locally	: 0,045
Remarks	: Substance is complex UVCB. Predominantly hydrophobic.
MSafe (maximum allowable site tonnage)	: 5,0 10E6 kg/day
Remarks	: Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal

Frequency and duration of use

Continuous exposure	: 300 Emission days (days/year), Continuous release.
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Environmental factors not influenced by risk management

Local freshwater dilution factor	: 10
Local Marine water dilution factor	: 100

Other given operational conditions affecting environmental exposure

Emission or Release Factor: Air	: 0,1 %
Emission or Release Factor: Water	: 0,001 %
Emission or Release Factor: Soil	: 0,001 %
Remarks	: All release factors refer to initial release prior to RMM. Release to water is release to wastewater.

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Technical conditions and measures / Organizational measures;

- Air : Treat air emission to provide a typical removal efficiency of:
90,0 %
- Water, : Treat onsite wastewater (prior to receiving water discharge) to provide the required
removal efficiency $\geq$ (%):
98,3 %
- Water, : If discharging to domestic sewage treatment plant, provide the required onsite
wastewater removal efficiency of $\geq$ (%):
98,3 %
- Remarks : Common practices vary across sites thus conservative process release estimates used.
Risk from environmental exposure is driven by freshwater sediment. If discharging to
domestic sewage treatment plant, no onsite wastewater treatment required.

Conditions and measures related to municipal sewage treatment plant

- Type of Sewage Treatment Plant : Domestic treatment plant
- Flow rate of sewage treatment plant effluent : 2.000 m³/d
- Effectiveness (STP) : 0,0 %
- Total removal from wastewater according to
internal and external location measures : 1,0 %
- Sludge Treatment : Organisation measures to prevent/limit release from site: Do not apply industrial sludge
to natural soils. Sludge should be incinerated, contained or reclaimed.
- Remarks : Conditions and measures related to municipal sewage treatment plant; Not applicable
as there is no release to wastewater.

Conditions and measures related to external treatment of waste for disposal

- Waste treatment : 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.

Conditions and measures related to external recovery of waste

- Recovery Methods : This substance is consumed during use and no waste of the substance is generated.

2.2 Contributing scenario controlling worker exposure for:

- PROC1 : Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.**
- PROC2 : Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions**
- PROC8a : Transfer of substance or mixture (charging and discharging) at non-dedicated facilities**
- PROC8b : Transfer of substance or mixture (charging and discharging) at dedicated facilities**
- PROC16 : Use of fuels**
- PROC28 : Manual maintenance (cleaning and repair) of machinery**

Product characteristics

- Concentration of the Substance in Mixture/Article : Covers percentage substance in the product up to 100 % (unless stated differently)
- Physical Form (at time of use) : Liquid, with potential for aerosol generation
- Vapour pressure : Vapour Pressure is given at STP. < 5 hPa
- Remarks : Assumes a good basic standard of occupational hygiene is implemented, Covers use at
ambient temperatures (unless stated differently).

Frequency and duration of use

- Covers daily exposures up to 8 hours
(unless stated differently) : 8 h

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Technical conditions and measures

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.

General Measures (flammability).

For measures to control risks from physicochemical properties, refer to main body of the SDS, section 7 and/or 8.

General exposures (closed systems).

(PROC 1, PROC 2)

Handle substance within a closed system. Sample via a closed loop or other system to avoid exposure.

Use as a fuel, (closed systems)

(PROC 16)

Handle substance within a closed system.

Equipment cleaning and maintenance

(PROC 8a, PROC 28)

Drain down and flush system prior to equipment break-in or maintenance.

Storage.

(PROC 1, PROC 2)

Store substance within a closed system.

Organisational measures to prevent /limit releases, dispersion and exposure:

General measures applicable to all activities

Ensure staff are informed of and trained on the nature of exposure and basic actions to minimise exposure. Ensure control measures are regularly inspected and maintained. Consider the need for risk based health surveillance.

General Measures (flammability).

For measures to control risks from physicochemical properties, refer to main body of the SDS, section 7 and/or 8.

General exposures (closed systems).

(PROC 1, PROC 2)

Outdoor use.

Bulk Transfers. (PROC 8b)

Outdoor use.

Drum/batch transfers (PROC 8b)

Outdoor use.

Use as a fuel, (closed systems)

(PROC 16)

Outdoor use.

Storage.

(PROC 1, PROC 2)

Outdoor use.

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Conditions and measures related to personal protection, hygiene and health evaluation

General measures applicable to all activities

Wear suitable coveralls to prevent exposure to the skin. Wear suitable gloves tested to EN374. Wear respiratory protection when its use is identified for certain contributing scenarios. Clear spills immediately. Dispose of this material and its container at hazardous or special waste collection point.

General measures (skin irritants)

Ensure that direct skin contact is avoided. Identify potential areas for indirect skin contact. Wear suitable gloves tested to EN374. 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).

Do not ingest. If swallowed then seek immediate medical assistance.

General exposures (closed systems).

(PROC 1, PROC 2)

Clear spills immediately. Wear chemically resistant gloves (tested to EN374) 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.

Bulk Transfers. Dedicated facility. (PROC 8b)

For further specification, refer to section 8 of the SDS. Wear chemically resistant gloves (tested to EN374) 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.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.

Ensure no splashing occurs during transfer.

Drum/batch transfers; Dedicated facility (PROC8b)

Wear chemically resistant gloves (tested to EN374) 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.

Equipment cleaning and maintenance

(PROC 8a, PROC 28)

Wear chemically resistant gloves (tested to EN374) 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.

Wear suitable coveralls to prevent exposure to the skin. Clear spills immediately.

Storage.

(PROC 1, PROC 2)

Wear chemically resistant gloves (tested to EN374) 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.

3. Exposure estimation and reference to its source

3.1. Health:

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

3.2. Environment:

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

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

4.1. Health:

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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 dermal irritant effects. Available hazard data do 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 characterisation.

4.2. 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 onsite technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (<https://www.esig.org/reaches/environment/#factsheets>)

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1. Brief title of the Exposure Scenario: 12b - Use as a fuel: Professional (classified)

Life-cycle stage	: PW: Widespread use by professional workers
Sector of use	: not applicable
Process category	: PROC1: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC2: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC8a: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b: Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC16: Use of fuels PROC28: Manual maintenance (cleaning and repair) of machinery
Environmental release category	: ERC9a: Widespread use of functional fluid (indoor) ERC9b: Widespread use of functional fluid (outdoor)
Further information	: Specific Environmental Release Category ESVOC SpERC 9.12b.v3
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.

2.1 Contributing scenario controlling environmental exposure for:

ERC9a, Widespread use of functional fluid (indoor)

ERC9b, Widespread use of functional fluid (outdoor)

Amount used

Regional use tonnage (tonnes/year)	: 4,3 10E6
Annual site tonnage (tonnes/year)	: 2.146
Maximum daily site tonnage (kg/day)	: 5,9
Fraction of EU tonnage used in region	: 0,1
Fraction of Regional tonnage used locally	: 0,0005
Remarks	: Substance is complex UVCB. Predominantly hydrophobic.
MSafe (maximum allowable site tonnage)	: 7.080 kg/day
Remarks	: Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal

Frequency and duration of use

Continuous exposure	: 365 Emission days (days/year), Continuous release.
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Environmental factors not influenced by risk management

Local freshwater dilution factor	: 10
Local Marine water dilution factor	: 100

Other given operational conditions affecting environmental exposure

Emission or Release Factor: Air	: 0,5 %
Emission or Release Factor: Water	: 0,001 %
Emission or Release Factor: Soil	: 0,025 %
Remarks	: All release factors refer to release from wide dispersive use. Release factors for air and soil refer to regional use only. Release to water is release to wastewater.

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Technical conditions and measures / Organizational measures:

- Air : Treat air emission to provide a typical removal efficiency of:
90,0 %
- Water, : Treat onsite wastewater (prior to receiving water discharge) to provide the required
removal efficiency $\geq$ (%):
0,0 %
- Water, : If discharging to domestic sewage treatment plant, provide the required onsite
wastewater removal efficiency of $\geq$ (%):
0,0 %
- Remarks : Common practices vary across sites thus conservative process release estimates used.
Risk from environmental exposure is driven by freshwater.

Conditions and measures related to municipal sewage treatment plant

- Type of Sewage Treatment Plant : Domestic treatment plant
- Flow rate of sewage treatment plant effluent : 2.000 m³/d
- Effectiveness (STP) : 95,4 %
- Total removal from wastewater according to
internal and external location measures : 1,0 %
- Sludge Treatment : Organisation measures to prevent/limit release from site: Do not apply industrial sludge
to natural soils. Sludge should be incinerated, contained or reclaimed.
- Remarks : Conditions and measures related to municipal sewage treatment plant; Not applicable
as there is no release to wastewater.

Conditions and measures related to external treatment of waste for disposal

- Waste treatment : 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.

Conditions and measures related to external recovery of waste

- Recovery Methods : This substance is consumed during use and no waste of the substance is generated.

2.2 Contributing scenario controlling worker exposure for:

- PROC1 : Chemical production or refinery in closed process without likelihood of exposure or processes
with equivalent containment conditions.**
- PROC2 : Chemical production or refinery in closed continuous process with occasional controlled
exposure or processes with equivalent containment conditions**
- PROC8a : Transfer of substance or mixture (charging and discharging) at non-dedicated facilities**
- PROC8b : Transfer of substance or mixture (charging and discharging) at dedicated facilities**
- PROC16 : Use of fuels**
- PROC28 : Manual maintenance (cleaning and repair) of machinery**

Product characteristics

- Concentration of the Substance in
Mixture/Article : Covers percentage substance in the product up to 100 % (unless stated differently)
- Physical Form (at time of use) : Liquid, with potential for aerosol generation
- Vapour pressure : Vapour Pressure is given at STP. < 5 hPa
- Remarks : Assumes a good basic standard of occupational hygiene is implemented, Covers use at
ambient temperatures (unless stated differently).

Frequency and duration of use

- Covers daily exposures up to 8 hours
(unless stated differently) : 8 h

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Technical conditions and measures

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.

General Measures (flammability).

For measures to control risks from physicochemical properties, refer to main body of the SDS, section 7 and/or 8.

Use as a fuel, (closed systems)

(PROC 16)

Handle substance within a closed system.

Storage.

(PROC 1, PROC 2)

Store substance within a closed system.

Drum/batch transfers; Dedicated facility

(PROC 8b)

Use drum pumps.

Organisational measures to prevent /limit releases, dispersion and exposure:

General measures applicable to all activities

Ensure staff are informed of and trained on the nature of exposure and basic actions to minimise exposure. Ensure control measures are regularly inspected and maintained. Consider the need for risk based health surveillance.

General Measures (flammability).

For measures to control risks from physicochemical properties, refer to main body of the SDS, section 7 and/or 8.

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Conditions and measures related to personal protection, hygiene and health evaluation

General measures applicable to all activities

Wear suitable coveralls to prevent exposure to the skin. Wear suitable gloves tested to EN374. Wear respiratory protection when its use is identified for certain contributing scenarios. Clear spills immediately. Dispose of this material and its container at hazardous or special waste collection point.

General measures (skin irritants)

Ensure that direct skin contact is avoided. Identify potential areas for indirect skin contact. Wear suitable gloves tested to EN374. 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).

Do not ingest. If swallowed then seek immediate medical assistance.

Bulk Transfers. Dedicated facility. (PROC 8b)

Wear chemically resistant gloves (tested to EN374) 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.

Drum/batch transfers; Dedicated facility (PROC8b)

Wear chemically resistant gloves (tested to EN374) 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.

Refuelling activities (PROC 8b, PROC 2)

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply. Ensure no splashing occurs during transfer.

Equipment cleaning and maintenance. (PROC 8a, PROC 28)

Wear chemically resistant gloves (tested to EN374) 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.

Storage.

(PROC 1, PROC 2)

Wear chemically resistant gloves (tested to EN374) 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.

3. Exposure estimation and reference to its source

3.1. Health:

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

3.2. Environment:

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

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

4.1. 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 dermal irritant effects. Available hazard data do 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 characterisation.

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4.2. 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 onsite technologies, either alone or in combination. Further details on scaling and control technologies are provided in SpERC factsheet (<https://www.esig.org/reaches/environment/#factsheets>)

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1. Brief title of the Exposure Scenario: 12c - Use as a fuel - Consumer (classified)

Life-cycle stage	: C: Consumer use
Sector of use	: not applicable
Product category	: PC13: Fuels
Environmental release category	: ERC9a: Widespread use of functional fluid (indoor) ERC9b: Widespread use of functional fluid (outdoor)
Further information	: Specific Environmental Release Category ESVOC SpERC 9.12c.v3
Processes, tasks, activities covered	: Covers consumer uses in liquid fuels

2.1 Contributing scenario controlling environmental exposure for:

ERC9a, Widespread use of functional fluid (indoor)

ERC9b, Widespread use of functional fluid (outdoor)

Product characteristics

Amount used

Regional use tonnage (tonnes/year)	: 14,4 10E6
Annual site tonnage (tonnes/year)	: 7.205
Maximum daily site tonnage (kg/day)	: 19,7
Fraction of EU tonnage used in region	: 0,1
Fraction of Regional tonnage used locally	: 0,0005
Remarks	: Substance is complex UVCB. Predominantly hydrophobic.
MSafe (maximum allowable site tonnage)	: 23.800 kg/day
Remarks	: Maximum allowable site tonnage (MSafe) based on release following total wastewater treatment removal

Frequency and duration of use

Continuous exposure	: 365 Emission days (days/year), Continuous release.
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Environmental factors not influenced by risk management

Local freshwater dilution factor	: 10
Local Marine water dilution factor	: 100

Other given operational conditions affecting environmental exposure

Emission or Release Factor: Air	: 0,01 %
Emission or Release Factor: Water	: 0,001 %
Emission or Release Factor: Soil	: 0,005 %
Remarks	: All release factors refer to release from wide dispersive use. Release factors for air and soil refer to regional use only. Release to water is release to wastewater.

Conditions and measures related to municipal sewage treatment plant

Type of Sewage Treatment Plant	: Domestic treatment plant
Flow rate of sewage treatment plant effluent	: 2.000 m3/d
Effectiveness (STP)	: 95,4 %
Remarks	: Conditions and measures related to municipal sewage treatment plant:, Not applicable as there is no release to wastewater.

Conditions and measures related to external treatment of waste for disposal

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Waste treatment : 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.

Conditions and measures related to external recovery of waste

Recovery Methods : This substance is consumed during use and no waste of the substance is generated.

2.2 Contributing scenario controlling consumer exposure for:

PC13 : Fuels

Product characteristics

Concentration of the Substance in Mixture/Article : Unless otherwise stated, cover concentrations up to 100%.
Physical Form (at time of use) : Liquid
Remarks : Unless otherwise stated assumes use at ambient temperatures. no spraying Oral exposure is considered to be not relevant.

Other given operational conditions affecting consumers exposure

Activity (outdoor/indoor) : PC13:Fuels--Liquid - subcategories added: Automotive Refuelling (Diesel), Outdoor use.
Remarks : Unless otherwise stated, covers concentrations up to 100%., Covers use up to 52 days/year., Covers use up to 1 time/on day of use., Assumes that potential dermal contact is limited to palm of one hand., For each use event, covers use amounts up to 44000g., Covers outdoor use., For each use event, covers exposure up to 0,05 hr/event.
Activity (outdoor/indoor) : PC13:Fuels--Liquid (subcategories added): Garden Equipment
Remarks : Unless otherwise stated, covers concentrations up to 100%., Covers use up to 26 days/year., Covers use up to 1 time/on day of use., Assumes that potential dermal contact is limited to inside hands / one hand / palm of hands., For each use event, covers use amounts up to 750g., For each use event, covers exposure up to 0.033 hr/event.

Conditions and measures related to protection of consumer (e.g. behavioural advice, personal protection and hygiene)

Application Route : General measures (skin irritants)
Remarks : Ensure there is no direct skin contact with product., Remove accidental skin contamination.
Application Route : General measures (flammability)
Remarks : For measures to control risks from physicochemical properties, refer to main body of the SDS, section 7 and/or 8.
Application Route : General measures (aspiration hazard)
Remarks : Do not ingest. If swallowed then seek immediate medical assistance.
Application Route : PC13:Fuels--Liquid - subcategories added: Automotive Refuelling (Diesel)
Remarks : No specific RMMs identified beyond those OCs stated
Application Route : PC13:Fuels--Liquid (subcategories added): Garden Equipment
Remarks : No specific RMMs identified beyond those OCs stated

3. Exposure estimation and reference to its source

3.1. Health:

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

3.2. Environment:

Safety Data Sheet as per EC Regulation No. 1907/2006

Euro Diesel without biofuel
PdNr. 460220

Date of issue: 19.01.2012
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The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the Exposure Scenario

4.1. 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 do not enable the derivation of a DNEL for dermal irritant effects. Available hazard data do 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 characterisation.

4.2. 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.