

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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

1.1 Product identifier

Trade name	: OMV EcoPro Diesel
------------	---------------------

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. For further information our Competence Center Fuels is available to you at the telephone no. +43-1-40440-43486.
Identified uses according to CSR (Chemical Safety Report)	: <u>Use at industrial sites</u> 01a - Distribution of substance 12a - Use as a Fuel: Industrial <u>Formulation or re-packing</u> 02 - Formulation & (re)packing of substances and mixtures <u>Widespread use by professional workers</u> 12b - Use as a Fuel: Professional <u>Consumer use</u> 12c - Use as a fuel - Consumer

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 Downstream GmbH Trabrennstrasse 6-8 1020 Wien Austria
Telephone	: +43 (0) 810 240 282
E-mail address of the competent person	: info.msds@omv.com

1.4 Emergency telephone number

+43 (0) 664 91 08 787	Green-line refinery Schwechat 24h/7d
+43 (0) 1 406 43 43	Poison Control Centre - Hours of operation: 24h/7d

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, 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, see Section 16.

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

2.2 Label elements

Labelling (EC Regulation No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H351 Suspected of causing cancer.
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:
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.
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.
No structures relevant to petroleum substances were found to meet the PBT or vPvB criteria except for anthracene (a known PBT), which, however, is not present in the substance at greater than 0,1%.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

not applicable

3.2 Mixtures

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

Chemical nature	hydrocarbons Can also contain small amounts of proprietary performance-enhancing additives. A synthetic biofuel (HVO) with a content of 6.6 - 7.0% vol is added to the product.
------------------------	---

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]
Fuels, diesel	649-224-00-6 68334-30-5 269-822-7 01-2119484664-27	Flam. Liq. 3; H226 Acute Tox. 4; H332 Skin Irrit. 2; H315 Asp. Tox. 1; H304 Carc. 2; H351 STOT RE 2; H373 Aquatic Chronic 2; H411	>= 93,00
Renew able hydrocarbons (diesel type fraction); Alkanes, C10-20-branched and linear	- 928771-01-1 618-882-6 01-2119450077-42	Asp. Tox. 1; H304	<= 7,00

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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, see Section 16.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice	: 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. Own protection of the first responders to be considered.
Inhalation	: After inhaling the vapours during an accident affected persons are to be taken to the fresh air. Get medical help immediately. If casualty is unconscious and not breathing: Ensure that there is no obstruction to breathing and give artificial respiration by trained personnel. If necessary, give external cardiac massage and obtain medical advice. If casualty is unconscious and breathing: place in the recovery position. Administer oxygen if necessary. In case of persistent discomforts a doctor is to be consulted.
Skin contact	: After skin contact wash it thoroughly off using water and soap. If whole body has been exposed, then the person should be washed completely, especially the hair. Remove contaminated clothing, contaminated footwear and dispose of safely. Cover affected body areas with clean, non-adherent clothes. Seek medical attention if skin irritation, swelling or redness develops and persists. When using high-pressure equipment, injection of product can occur. If high-pressure injuries occur, immediately seek professional medical attention. Do not wait for symptoms to develop. For minor thermal burns: Cool the burn. Hold the burned area under cold running water for at least five minutes, or until the pain subsides. However, body hypothermia must be avoided.
Eye contact	: Upon the contact with the eye rinse for 10-15 minutes under running water and with the lids forced apart or by means of the eye rinsing bottle for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. In case of persistent discomforts an ophthalmologist is to be consulted.
Ingestion, Intake into the Lungs	: In case of ingestion, always assume that aspiration has occurred. The casualty should be sent immediately to hospital. Do not wait for symptoms to develop. Do not induce vomiting as there is high risk of aspiration. Do not give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Nausea, vomiting, and diarrhea as well as the danger of a chemical pneumonitis due to the aspiration during the swallowing or vomiting. Product vapours in high concentrations may cause irritations of the eyes and mucous skins (nose, throat). Upon a long-term inhalation of concentrated vapours headache, vertigo, euphoria, excitation, tremors, tonic-clonic spasms, unconsciousness, circulatory insufficiency, and paralysis of the central respiratory system may occur. Very high concentrations lead to unconsciousness after short-term exposure already. Skin Contact Symptoms: reddening, irritation. Eye Contact Symptoms: slight irritation (unspecific).
Effects	: Upon aspiration risk of a chemical pneumonitis.

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	:	Symptomatic treatment. 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.
------------------	---	---

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	:	In the case of a small source of fire: dry extinguishing powder; foam (specifically trained personnel only); water fog (specifically trained personnel only); carbon dioxide (CO ₂); Other inert gases (subject to regulations); Sand or earth. In the case of a large source of fire: foam or water in a spraying jet.
Unsuitable extinguishing media	:	Water in a full jet; (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. Prevent the penetration into the sewer system and rooms at low levels. Prevent the penetration into the soil and waters. This substance will float and can be reignited on surface water. Sources of ignition to be kept off. Use explosion-proof and solvent resistant devices only. Potential combustion products such as CO, SO _x , NO _x can result and must be observed. (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.
--	---	---

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. Ensure a reserve of extinguishing water.

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. First-aiders must wear personal protective equipment. Affected rooms to be ventilated thoroughly. Avoid contact with the skin. 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 SCBA's 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. Evaporated product is heavier than air and propagates close to the ground.
-----------------------------	--

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).
----------------------------------	--

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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. Note: When the binding agent is completely loaded the evaporation rate increases and thus, the risk of a fire. 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.
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).

6.5 Additional advice

Adopt measures according to local conditions and regulations.

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. 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 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).

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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. Containers to be kept tightly closed and at a thoroughly ventilated place. Only approved stationary containers to be used. 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. 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.

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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 oxidising 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: oxidising 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. TRGS 509 resp. 510 must be observed.
---------------------------------	---	--

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.
---	---	---

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational limit value of the product

No data known

Occupational limit value 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/m ³	ppm	Exceeding coefficient	Note	Source
TLV-TWA	-	20	-	Mixture of hydrocarbons > 25% aromatics	Austrian Ordinance on Limit Values

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

A	Fraction passing the alveoles
E	Inhalable fraction
H	Skin resorptive
Y	A risk of teratogenic effects need not be feared when the occupational exposure limit and the biological limit value (BLV) are respected.
Z	A risk of teratogenic effects cannot be excluded even if the OEL and the BLV are respected.
Sh	danger of skin sensitisation
SP	danger of photo contact sensitisation
Sa	respiratory sensitiser
Sah	Risk of sensitisation of the respiratory tract and skin
X	carcinogenic substance of the Cat. 1A/1B

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

Exposure routes: acute, inhalation, systemic

Value: 4300 mg/m³

Most sensitive endpoint: Acute toxicity (Inhalation) NOEC 6000 mg/m³, DNEL, CAS-NR.: 68334-30-5

End Use: worker

Exposure routes: chronic inhalative, systemic

Value: 68,3 mg/m³

Most sensitive endpoint: Developmental (Dermal) NOEL 125 mg/kg/day, DNEL, CAS-NR.: 68334-30-5

End Use: worker

Exposure routes: chronic dermal, systemic

Value: 2,9 mg/kg bw /day

Most sensitive endpoint: repeated dose toxicity (Dermal) NOAEL 30/kg/day, DNEL, CAS-NR.: 68334-30-5

End Use: General population

Exposure routes: acute, inhalation, systemic

Value: 2600 mg/m³

Most sensitive endpoint: Acute toxicity (Inhalation) NOEC 6000 mg/m³, DNEL, CAS-NR.: 68334-30-5

End Use: General population

Exposure routes: chronic inhalative, systemic

Value: 20 mg/m³

Most sensitive endpoint: Developmental (Dermal) NOEL 125 mg/kg/day, DNEL, CAS-NR.: 68334-30-5

End Use: General population

Exposure routes: chronic dermal, systemic

Value: 1,3 mg/kg bw /day

Most sensitive endpoint: repeated dose toxicity (Dermal) NOAEL 30/kg/day, DNEL, CAS-NR.: 68334-30-5

PNEC of product

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

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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

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.
-------------------------	---	---

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 Strength of material: 0,40 mm Test method: DIN EN 374 Material: Viton; Break through time: 480 min Strength of material: 0,70 mm Test method: DIN EN 374 Material: Butyl; Break through time: 120 min Strength of material: 0,70 mm Test method: DIN EN 374 Material: Polychloroprene; Break through time: 120 min Strength of material: 0,60 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.

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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 "Measures in the cases of accidental release"
--	---

8.3 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

Appearance	: liquid
Aggregate condition	: liquid
Colour	: light yellow ish
Odour	: characteristic
Odour threshold	: Odour clearly perceptible

Characteristics	Values	Method	Note
pH			not applicable
Melting point/Freezing point			Pour Point, not determined
start of boiling	ca. 160 °C	EN ISO 3405	
final boiling point	ca. 370 °C	EN ISO 3405	
Flash point	> 55 °C	EN ISO 2719	
Evaporation rate			not determined
Phase transition solid, gaseous			---
Lower explosion limit	ca. 0,6 %(V)		Literature data
Upper explosion limit	ca. 6,5 %(V)		Literature data
Vapour pressure	\leq 1 kPa at 37,8 °C	EN 13016-1	
Vapour density			not determined
Density	820 - 845 kg/m ³ at 15 °C	EN ISO 12185, EN ISO 3675	
Relative density			not relevant;
Water solubility			practically insoluble
Solubility(ies)			Fat solubility: not determined
Partition coefficient (n-octanol/water)			no data available
Auto-ignition temperature	\geq 200 °C		Literature data

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

Decomposition temperature			not determined
Viscosity, kinematic	2,0 - 4,5 mm ² /s at 40 °C	EN ISO 3104	
Viscosity, dynamic			not determined
Explosive properties		Derivation from chemical structure	not explosive
Oxidising properties		Derivation from chemical structure	not oxidising

9.2 Other information

no data 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

10.5 Incompatible materials

Materials to avoid : strong acids and oxidizing agents;

10.6 Hazardous decomposition products

Hazardous decomposition products : not determined

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

10.7 Additional advice

Invisible vapour, heavier than air

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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
-----------------	---	---

Serious eye damage/eye irritation

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

Respiratory or skin sensitisation

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

Germ cell mutagenicity

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

Genotoxicity in vitro	: Ames test Result: negative with metabolic activation Method: Modified Ames Test according to ASTM E 1687 Test substance: 68334-30-5
Genotoxicity in vivo	: micronucleus assay (clastogenicity) Test substance: 68476-30-2 Method: OECD 475 Result: negative
	: Chromosome aberration test Test substance: 64741-44-2 Method: OECD 475 Result: negative
Toxicological Assessment Germ cell mutagenicity	: Based on the available data is 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
Developmental toxicity/teratogenicity	: Application Route: dermal; rat Test substance: 64741-49-7 Method: OECD 414 NOAEL Dose: 125 mg/kg/d (maternal/developmental toxicity)
Toxicological Assessment Developmental toxicity/teratogenicity Reproduction toxicity/fertility	: Based on the available data, not classified as toxic to development or teratogenic.

Specific Target Organ Toxicity - Single exposure

Specific Target Organ Toxicity - Single exposure	: Exposure routes: no data available
---	--------------------------------------

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

Specific Target Organ Toxicity - Repeated exposure

Effect upon repeated or longtime exposure	:	May cause damage to organs (thymus, liver, bone marrow) through prolonged or repeated exposure.
---	---	---

Aspiration hazard

Aspiration toxicity	:	May be fatal if sw allowed and enters airways.
---------------------	---	--

Neurological effects

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

Toxicological Assessment

Repeated dose toxicity	:	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 68334-30-6

11.2 Additional advice

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

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
-------------------------	---	--

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

	NOEL Species: Oncorhynchus mykiss (rainbow trout) Dose: 10 mg/l Exposure time: 96 h Method: OECD 203
Acute toxicity for aquatic invertebrates	: NOEL 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: Pseudokirchneriella subcapitata Dose: 22 mg/l Exposure time: 72 h Method: OECD 201
Toxicity for micro-organisms	: NOEL Species: Tetrahymena pyriformis Dose: 3.217 mg/l Exposure time: 40 h Test substance: vacuum gas oil, hydrocracked gas oils and distillate fuels Method: QSAR
	EL50 Species: Tetrahymena pyriformis Dose: > 1.000 mg/l Exposure time: 40 h Test substance: vacuum gas oil, hydrocracked gas oils and distillate fuels Method: QSAR
Toxicity to edaphic organisms	: no data available
Toxicity for terrestrial plants	: no data available
Toxicity to other terrestrial non -mammalian organisms	: no data available

Chronic toxicity

Toxicity to fish (Chronic toxicity)	: NOEL Species: Oncorhynchus mykiss (rainbow trout) Dose: 0,083 mg/l Exposure time: 14 d Test substance: vacuum gas oil, hydrocracked gas oils and distillate fuels Method: QSAR
--	---

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

Toxicity to daphnia and other aquatic invertebrates. (Chronic toxicity)	: NOEL Species: Daphnia magna Dose: 0,2 mg/l Exposure time: 21 d Test substance: vacuumgas oil, hydrocracked gas oils and distillate fuels Method: (Q)SAR
Aquatic Acute	: EL50: >1000 mg/l/ 40h; NOEL: 3,217 mg/l, 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

Persistence, Biodegradability	: Not readily biodegradable.
--------------------------------------	------------------------------

12.3 Bioaccumulative potential

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

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 wastewater plants.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	: No structures relevant to petroleum substances were found to meet the PBT or vPvB criteria except for anthracene (a known PBT), which, however, is not present in the substance at greater than 0,1%.
---	---

12.6 Other adverse effects

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

Effects upon sewage treatment plants	:	no information
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.

12.7 Further information

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

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Information on the disposal of the product	:	ÖNORM S 2100, key code group 54 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.
Disposal key according to European disposal index 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

13.2 Additional advice

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

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

SECTION 14: TRANSPORT INFORMATION



Road transport (ADR)

14.1	UN 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	:	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
--------------------------------	---	----

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

ADR/RID-Labels	:	3
Classification Code	:	F1
Advice	:	Danger Label No 3, Fish and tree - Environmentally hazardous substance mark, Special provision 640L

Inland navigation with tanker barges (ADN)

14.1	UN 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)
--------	---	--------

Sea transport (IMDG)

14.1	UN 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	Transport in bulk according to Annex II of MARPOL and the IBC Code	:	MARPOL Annex 1

Further information

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

Air transport (ICAO-TI/IATA-DGR)

14.1	UN 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

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

14.6	Special precautions for user	:	See section 7 and references therein.
------	------------------------------	---	---------------------------------------

Further information

ICAO hazard labels	:	3
--------------------	---	---

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

ASchG, BGBl. No. 450/1994	:	Dangerous substance at workplace
Fire hazard class	:	A III: Flash Point > 55°C up to 100°C, at 15°C not miscible with water

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 classified as dangerous by the definitions of the EEC Directive no. 67/548 and the Directive 1999/45/EC;
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.

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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.
---	---	--

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
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.
H373	May cause damage to organs (thymus, liver, bone marrow) through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Further information

Other information	:	Overall updates from the previous main version (not marked as stated below) have been implemented in: Section 1 and Annex Sections 4 - 8 Sections 11 - 16
		List of acronyms: (Q)SAR = Quantitative Structure Activity Relationship ADN = European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR = European 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

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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
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
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
OSHA = European Agency for Safety and Health at work
PBT = Persistent, Bioaccumulative and Toxic substance
PEC = Predicted Effect Concentration
PNEC = Predicted No Effect Concentration
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)

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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 STOT RE 2 H373 - Calculation method Aquatic Chronic 2 H411 - Calculation method

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.

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: 01a - Distribution of substance

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 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 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) PROC15: Use as laboratory reagent
Environmental release category	: ERC4: Use of non-reactive processing aid at industrial site (no inclusion into or onto article) ERC5: Use at industrial site leading to inclusion into/onto article ERC6a: Use of intermediate ERC6b: Use of reactive processing aid at industrial site (no inclusion into or onto article) ERC6c: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) ERC6d: Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article) ERC7: Use of functional fluid at industrial site
Further information	: Specific Environmental Release Category ESVOC SpERC 1.1b.v1
Processes, tasks, activities covered	: Bulk loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading and associated laboratory activities. Excludes emissions during transport.

2.1 Contributing scenario controlling environmental exposure for:

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

- ERC4, Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
- ERC5, Use at industrial site leading to inclusion into/onto article
- ERC6a, Use of intermediate
- ERC6b, Use of reactive processing aid at industrial site (no inclusion into or onto article)
- ERC6c, Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)
- ERC6d, Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
- ERC7, Use of functional fluid at industrial site

Amount used

- Regional use tonnage : 31 10E6 t/y
- Annual site tonnage (tonnes/year) : 61.000
- Maximum daily site tonnage (kg/day) : 200.000
- Fraction of EU tonnage used in region : 0,1
- Fraction of Regional tonnage used locally : 0,002
- Remarks : Substance is complex UVCB. Predominantly hydrophobic.

- MSafe (maximum allow able site tonnage) : 670.000 kg/day
- Remarks : Maximum allow able site tonnage (MSafe) based on release follow ing total w astewater treatment removal

Frequency and duration of use

- 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 : 0,1 %
- 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.

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:
83,3 %
- Water : If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of >= (%):
0 %
- Remarks : Common practices vary across sites thus conservative process release estimates used. Risk from environmental exposure is driven by freshwater secondary poisoning. 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

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

Flow rate of sewage treatment plant effluent : 2.000 m³/d
Effectiveness (STP) : 94,9 %
Total removal from wastewater according to internal and external location measures : 94,9 %
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
- PROC4 : Chemical production where opportunity for exposure arises
- 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)
- PROC15 : Use as laboratory reagent

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, Assumes use at not more than 20°C above ambient temperature, unless stated differently.

Frequency and duration of use

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

OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

Technical conditions and measures

CS135 General measures applicable to all activities

Control any potential exposure using measures such as contained systems, properly designed and maintained facilities and a good standard of general ventilation. Drain down systems and transfer lines prior to breaking containment. Drain down and flush equipment where possible prior to maintenance.

G19 General measures (skin irritants)

No other specific measures identified.

CS15 General exposures (closed systems).

Handle substance within a closed system.

CS16 General exposures (open systems).

No other specific measures identified.

CS2 Process sampling

No other specific measures identified.

CS36 Laboratory activities

No other specific measures identified.

CS501 Bulk closed loading and unloading.

Handle substance within a closed system.

CS503 Bulk open loading and unloading

No other specific measures identified.

CS6 Drum and small package filling

No other specific measures identified.

CS39 Equipment cleaning and maintenance.

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

CS67 Storage.

Handle substance within a closed system.

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

CS135 General measures applicable to all activities

Where there is potential for exposure: Ensure relevant staff are informed of exposure potential and aware of basic actions to minimise exposures; monitor effectiveness of control measures; provide regular health surveillance as appropriate; identify and implement corrective actions.

G19 General measures (skin irritants)

Provide basic employee training to prevent / minimise exposures and to report any skin effects that may develop.

CS15 General exposures (closed systems).

No other specific measures identified.

CS16 General exposures (open systems).

No other specific measures identified.

CS2 Process sampling

No other specific measures identified.

CS36 Laboratory activities

No other specific measures identified.

CS501 Bulk closed loading and unloading.

No other specific measures identified.

CS503 Bulk open loading and unloading

No other specific measures identified.

CS6 Drum and small package filling

No other specific measures identified.

CS39 Equipment cleaning and maintenance.

No other specific measures identified.

CS67 Storage.

No other specific measures identified.

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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

CS135 General measures applicable to all activities

Where there is potential for exposure: ensure suitable personal protective equipment is available; clear up spills and dispose of waste in accordance with regulatory requirements.

G19 General measures (skin irritants)

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off skin contamination immediately.

CS15 General exposures (closed systems).

No other specific measures identified.

CS16 General exposures (open systems).

Wear suitable gloves tested to EN374.

CS2 Process sampling

No other specific measures identified.

CS36 Laboratory activities

No other specific measures identified.

CS501 Bulk closed loading and unloading.

Wear suitable gloves tested to EN374.

CS503 Bulk open loading and unloading

Wear suitable gloves tested to EN374.

CS6 Drum and small package filling

Wear suitable gloves tested to EN374.

CS39 Equipment cleaning and maintenance.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

CS67 Storage.

No other specific measures identified.

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. 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. 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 (<http://cefic.org/en/reach-for-industries-libraries.html>).

Maximum Risk Characterisation Ratio for Air Emissions RCR_{air}

0,024

Maximum Risk Characterisation Ratio for Wastewater Emissions RCR_{water}

0,2

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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

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
Environmental release category	: ERC2: Formulation into mixture
Further information	: Specific Environmental Release Category ESVOC SpERC 2.2.v1
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, pelletization, 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	: 30 10E6 t/y
Annual site tonnage (tonnes/year)	: 30.000
Maximum daily site tonnage (kg/day)	: 100.000
Fraction of EU tonnage used in region	: 0,1
Fraction of Regional tonnage used locally	: 0,001
Remarks	: Substance is complex UVCB. Predominantly hydrophobic.

MSafe (maximum allowable site tonnage)	: 100.000 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.
---------------------	---

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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 : 1,00 %
Emission or Release Factor: Water : 0,02 %
Emission or Release Factor: Soil : 0,01 %
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:
0 %
Water : Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency \geq (%):
96,7 %
Water : If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of \geq (%):
35,1 %
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, additional 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) : 94,9 %
Total removal from wastewater according to internal and external location measures : 96,7 %
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
- PROC4 : Chemical production where opportunity for exposure arises

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

- 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 : **Tabletting, compression, extrusion, pelletisation, granulation**
PROC15 : **Use as laboratory reagent**

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, Assumes use at not more than 20°C above ambient temperature, unless stated differently.

Frequency and duration of use

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

Technical conditions and measures

CS135 General measures applicable to all activities

Control any potential exposure using measures such as contained systems, properly designed and maintained facilities and a good standard of general ventilation. Drain down systems and transfer lines prior to breaking containment. Drain down and flush equipment where possible prior to maintenance.

CS136 Batch processes at elevated temperatures

Provide extract ventilation to points where emissions occur.

G19 General measures (skin irritants)

No specific measures identified.

CS15 General exposures (closed systems).

Handle substance within a closed system.

CS16 General exposures (open systems).

No other specific measures identified.

CS2 Process sampling

No other specific measures identified.

CS8 Drum/batch transfers

No specific measures identified.

CS14 Bulk Transfers.

Handle substance within a closed system.

CS30 mixing operations (open systems)

Provide extract ventilation to points where emissions occur.

CS100 Production or preparation of articles by tabletting, compression, extrusion or pelletisation

No other specific measures identified.

CS6 Drum and small package filling

No other specific measures identified.

CS36 Laboratory activities

No other specific measures identified.

CS39 Equipment cleaning and maintenance.

Drain down system prior to equipment break-in or maintenance

CS67 Storage.

Store substance within a closed system.

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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

CS135 General measures applicable to all activities

Where there is potential for exposure: Ensure relevant staff are informed of exposure potential and aware of basic actions to minimise exposures; monitor effectiveness of control measures; provide regular health surveillance as appropriate; identify and implement corrective actions.

CS136 Batch processes at elevated temperatures

No other specific measures identified.

G19 General measures (skin irritants)

Provide basic employee training to prevent / minimise exposures and to report any skin effects that may develop.

CS15 General exposures (closed systems).

No other specific measures identified.

CS16 General exposures (open systems).

No other specific measures identified.

CS2 Process sampling

No other specific measures identified.

CS8 Drum/batch transfers

Use drum pumps or carefully pour from container.

CS14 Bulk Transfers.

No specific measures identified.

CS30 mixing operations (open systems)

No other specific measures identified.

CS100 Production or preparation of articles by tableting, compression, extrusion or pelletisation

No other specific measures identified.

CS6 Drum and small package filling

No other specific measures identified.

CS36 Laboratory activities

No other specific measures identified.

CS39 Equipment cleaning and maintenance.

No other specific measures identified.

CS67 Storage.

No other specific measures identified.

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

CS135 General measures applicable to all activities

Where there is potential for exposure: ensure suitable personal protective equipment is available; clear up spills and dispose of waste in accordance with regulatory requirements.

CS136 Batch processes at elevated temperatures

No other specific measures identified.

G19 General measures (skin irritants)

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off skin contamination immediately.

CS15 General exposures (closed systems).

No other specific measures identified.

CS16 General exposures (open systems).

Wear suitable gloves tested to EN374.

CS2 Process sampling

No other specific measures identified.

CS8 Drum/batch transfers

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

CS14 Bulk Transfers.

Wear suitable gloves tested to EN374.

CS30 mixing operations (open systems)

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

CS100 Production or preparation or articles by tableting, compression, extrusion or pelletisation

Wear suitable gloves tested to EN374.

CS6 Drum and small package filling

Wear suitable gloves tested to EN374.

CS36 Laboratory activities

No other specific measures identified.

CS39 Equipment cleaning and maintenance.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

CS67 Storage.

No other specific measures identified.

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. 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. Risk Management Measures are based on qualitative risk characterisation.

4.2. Environment:

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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 (<http://cefic.org/en/reach-for-industries-libraries.html>).

Maximum Risk Characterisation Ratio for Air Emissions RCRair

0,027

Maximum Risk Characterisation Ratio for Wastewater Emissions RCRwater

0,91

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

1. Brief title of the Exposure Scenario: 12a - Use as a Fuel: Industrial

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 PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition 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
Environmental release category	: ERC7: Use of functional fluid at industrial site
Further information	: Specific Environmental Release Category ESVOC SpERC 7.12a.v1
Processes, tasks, activities covered	: Covers the use as a fuel or in fuels (or fuel additives and additive components) 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	: 3,7 10E6 t/y
Annual site tonnage	: 1,5 10E6 t/y
Maximum daily site tonnage (kg/day)	: 5 10E6
Fraction of EU tonnage used in region	: 0,1
Fraction of Regional tonnage used locally	: 0,4
Remarks	: Substance is complex UVCB. Predominantly hydrophobic.
MSafe (maximum allowable site tonnage)	: 5 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.
---------------------	---

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

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

Emission or Release Factor: Air : 0,500 %
Emission or Release Factor: Water : 0,001 %
Emission or Release Factor: Soil : 0 %
Remarks : All release factors refer to initial release prior to RMM. Release to water is release to wastewater.

Technical conditions and measures / Organizational measures;

Air : Treat air emission to provide a typical removal efficiency of: 95,0 %
Water : Treat onsite wastewater (prior to receiving water discharge) to provide the required removal efficiency >= (%): 98,7 %
Water : If discharging to domestic sewage treatment plant, provide the required onsite wastewater removal efficiency of >= (%): 74,1 %
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, additional 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) : 94,9 %
Total removal from wastewater according to internal and external location measures : 98,7 %
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
PROC3 : Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
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

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

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

Vapour pressure : Vapour Pressure is given at STP. < 5 hPa
Remarks : Assumes a good basic standard of occupational hygiene is implemented, Assumes use at not more than 20°C above ambient temperature, unless stated differently.

Frequency and duration of use

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

Technical conditions and measures

CS135 General measures applicable to all activities

Control any potential exposure using measures such as contained systems, properly designed and maintained facilities and a good standard of general ventilation. Drain down systems and transfer lines prior to breaking containment. Drain down and flush equipment where possible prior to maintenance.

G19 General measures (skin irritants)

No other specific measures identified.

CS14 Bulk Transfers.

No other specific measures identified.

CS8 Drum/batch transfers

No other specific measures identified.

GEST_12I Use as a fuel, CS107 (closed systems)

No other specific measures identified.

CS39 Equipment cleaning and maintenance

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

CS67 Storage.

Handle substance within a closed system.

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

CS135 General measures applicable to all activities

Where there is potential for exposure: Ensure relevant staff are informed of exposure potential and aware of basic actions to minimise exposures; monitor effectiveness of control measures; provide regular health surveillance as appropriate; identify and implement corrective actions.

G19 General measures (skin irritants)

Provide basic employee training to prevent / minimise exposures and to report any skin effects that may develop.

CS14 Bulk Transfers.

No other specific measures identified.

CS8 Drum/batch transfers

No other specific measures identified.

GEST_12I Use as a fuel, CS107 (closed systems)

No other specific measures identified.

CS39 Equipment cleaning and maintenance

No other specific measures identified.

CS67 Storage.

No other specific measures identified.

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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

CS135 General measures applicable to all activities

Where there is potential for exposure: ensure suitable personal protective equipment is available; clear up spills and dispose of waste in accordance with regulatory requirements.

G19 General measures (skin irritants)

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off skin contamination immediately.

CS14 Bulk Transfers.

Wear suitable gloves tested to EN374.

CS8 Drum/batch transfers

Wear suitable gloves tested to EN374.

GEST_12I Use as a fuel, CS107 (closed systems)

No other specific measures identified.

CS39 Equipment cleaning and maintenance

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

CS67 Storage.

No other specific measures identified.

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. 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 (<http://cefic.org/en/reach-for-industries-libraries.html>).

Maximum Risk Characterisation Ratio for Air Emissions RCR_{air}

0,028

Maximum Risk Characterisation Ratio for Wastewater Emissions RCR_{water}

0,91

1. Brief title of the Exposure Scenario: 12b - Use as a Fuel: Professional

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 PROC3: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition 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
Environmental release category	: ERC9a: Widespread use of functional fluid (indoor)
Further information	: Specific Environmental Release Category ESVOC SpERC 9.12b.v1 Exposure scenario is also applicable for ERC9b: Widespread use of functional fluid (outdoor)
Processes, tasks, activities covered	: Covers the use as a fuel or in fuels (or fuel additives and additive components) 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	: 6,9 10E6 t/y
Annual site tonnage (tonnes/year)	: 3.400
Maximum daily site tonnage (kg/day)	: 9.400
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)	: 69.000 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.
---------------------	---

Environmental factors not influenced by risk management

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

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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 release from wide dispersive use. Release factors for air and soil refer to regional use only. Release to water is release to wastewater.

Technical conditions and measures / Organizational measures;

Air : Treat air emission to provide a typical removal efficiency of :
not applicable:

Water : Treat onsite wastewater (prior to receiving water discharge) to provide the required
removal efficiency \geq (%):
62,9 %

Water : If discharging to domestic sewage treatment plant, provide the required onsite
wastewater removal efficiency of \geq (%):
0 %

Remarks : Common practices vary across sites thus conservative process release estimates used.
Risk from environmental exposure is driven by freshwater. 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) : 94,9 %
Total removal from wastewater according to
internal and external location measures : 94,9 %

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**
- PROC3 : Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition**
- 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**

Product characteristics

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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, Assumes use at not more than 20°C above ambient temperature, unless stated differently.

Frequency and duration of use

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

Technical conditions and measures

CS135 General measures applicable to all activities

Control any potential exposure using measures such as contained systems, properly designed and maintained facilities and a good standard of general ventilation. Drain down systems and transfer lines prior to breaking containment. Drain down and flush equipment where possible prior to maintenance.

G19 General measures (skin irritants)

No other specific measures identified.

CS14 Bulk Transfers.

No other specific measures identified.

CS8 Drum/batch transfers

Use drum pumps or carefully pour from container.

CS507 Refuelling activities

No other specific measures identified.

GEST_12I Use as a fuel, CS107 (closed systems)

Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) or Ensure operation is undertaken outdoors

CS39 Equipment cleaning and maintenance.

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

CS67 Storage.

Store substance within a closed system.

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

CS135 General measures applicable to all activities

Where there is potential for exposure: Ensure relevant staff are informed of exposure potential and aware of basic actions to minimise exposures; monitor effectiveness of control measures; provide regular health surveillance as appropriate; identify and implement corrective actions.

G19 General measures (skin irritants)

Provide basic employee training to prevent / minimise exposures and to report any skin effects that may develop.

CS14 Bulk Transfers.

No other specific measures identified.

CS8 Drum/batch transfers

No other specific measures identified.

CS507 Refuelling activities

No other specific measures identified.

GEST_12I Use as a fuel, CS107 (closed systems)

No other specific measures identified.

CS39 Equipment cleaning and maintenance.

No other specific measures identified.

CS67 Storage.

No other specific measures identified.

OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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

CS135 General measures applicable to all activities

Where there is potential for exposure: ensure suitable personal protective equipment is available; clear up spills and dispose of waste in accordance with regulatory requirements.

G19 General measures (skin irritants)

Avoid direct skin contact with product. Identify potential areas for indirect skin contact. Wear gloves (tested to EN374) if hand contact with substance likely. Clean up contamination/spills as soon as they occur. Wash off skin contamination immediately.

CS14 Bulk Transfers.

Wear suitable gloves tested to EN374.

CS8 Drum/batch transfers

Wear suitable gloves tested to EN374.

CS507 Refuelling activities

Wear suitable gloves tested to EN374.

GEST_12I Use as a fuel, CS107 (closed systems)

No other specific measures identified.

CS39 Equipment cleaning and maintenance.

Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training.

CS67 Storage.

No other specific measures identified.

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. 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 (<http://cefic.org/en/reach-for-industries-libraries.html>).

Maximum Risk Characterisation Ratio for Air Emissions RCR_{air}

0,024

Maximum Risk Characterisation Ratio for Wastewater Emissions RCR_{water}

0,077

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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

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.v1
Processes, tasks, activities covered	: Covers consumer uses in 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	: 19 10E6 t/y
Annual site tonnage (tonnes/year)	: 9.500
Maximum daily site tonnage (kg/day)	: 26.000
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 allow able site tonnage)	: 180.000 kg/day
Remarks	: Maximum allow able 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.
---------------------	---

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 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

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

Effectiveness (STP) : 94,9 %
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 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
Vapour pressure : Vapour pressure > 0,1 hPa
Remarks : Unless otherwise stated, covers use amounts up to 37500g [ConsOC2]; covers skin contact area up to 420cm² [ConsOC5] Unless otherwise stated, covers use frequency up to 0,143 times per day (ConsOC4); Covers exposure up to 2 hours per event (ConsOC14); Unless otherwise stated assumes use at ambient temperatures. Assumes use in a 20 m³ room. Assumes use with typical ventilation.

Other given operational conditions affecting consumers exposure

Activity (outdoor/indoor) : PC13:Fuels--Liquid - subcategories added: Automotive Refuelling
Room size : 100 M³
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., Covers skin contact area up to 210 cm²., For each use event, covers use amounts up to 37500g., Covers outdoor use., covers use in room size of 100m³., For each use event, covers exposure up to 0,05hr/event.

Activity (outdoor/indoor) : PC13:Fuels--Liquid -: Home heating oil
Room size : 100 M³
Remarks : Unless otherwise stated, covers concentrations up to 100%., Covers use up to 120 days/year., Covers use up to 1 time/on day of use., Covers skin contact area up to 210.00 cm²., For each use event, covers use amounts up to 1500g., Covers use under typical household ventilation., covers use in room size of 20m³., For each use event, covers exposure up to 0,03hr/event.

Activity (outdoor/indoor) : PC13:Fuels--Liquid - subcategories added: Garden Equipment - Use
Room size : 100 M³
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., For each use event, covers use amounts up to 750g., Covers outdoor use., covers use in room size of 100m³., For each use event, covers exposure up to 2 hr/event.

Activity (outdoor/indoor) : PC13:Fuels--Liquid (subcategories added): Garden Equipment - Refuelling
Room size : 34 M³

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



OMV EcoPro Diesel
PdNr. 460300

Date of issue: 04.12.2012
Revision Date: 18.01.2018

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., Covers skin contact area up to 420cm²., For each use event, covers use amounts up to 750g., Covers use in a one car garage (34m³) under typical ventilation., covers use in room size of 34m³., For each use event, covers exposure up to 0,03hr/event.

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

Application Route : PC13:Fuels--Liquid - subcategories added: Automotive Refuelling
Remarks : No specific RMMS identified beyond those OCs stated
Application Route : PC13:Fuels--Liquid -: Home heating oil
Remarks : No specific RMMS identified beyond those OCs stated
Application Route : PC13:Fuels--Liquid - subcategories added: Garden Equipment - Use
Remarks : No specific RMMS identified beyond those OCs stated
Application Route : PC13:Fuels--Liquid (subcategories added): Garden Equipment - Refuelling
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, consistent with the content of ECETOC report 107 and the Chapter R15 of the IR&CSA TGD. Where exposure determinants differ to these sources, then they are 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.

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.

Maximum Risk Characterisation Ratio for Air Emissions RCR_{air}

0,024

Maximum Risk Characterisation Ratio for Wastewater Emissions RCR_{water}

0,088