Safety Data Sheet
Diesel Particulate Filter Treatment

PETRONAS

Safety Data Sheet dated 21/9/2018, version 3

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

1.1. Product identifier

Mixture identification:

Trade name: Diesel Particulate Filter Treatment

Trade code: 9065

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

Recommended use:

Fuel additive

1.3. Details of the supplier of the safety data sheet

Supplier:

Arexons S.p.A.

via Antica di Cassano, 23, 20063

Cernusco sul Naviglio (MI), Italy

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Competent person responsible for the safety data sheet:

arexons@arexons.it

1.4. Emergency telephone number

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Centro Antiveleni di Pavia IRCCS- Fondazione Maugeri tel. +39 (0)382 24444 (h24; it, en)

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

In Ireland: Beaumont Hospital - National Poisons Information Centre 01 809 2166 (7days, 8:00 - 22:00)

In South Africa: Poison Information Helpline 0861 555 777

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.
Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

Danger

Hazard statements:

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.

P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:
EUH066 Repeated exposure may cause skin dryness or cracking.
PACK1 The packing must be featured by a safety lock for children.
PACK2 The packing must have tactive indications of danger for blind people.

Contains
Distillates (petroleum), hydrotreated light
Distillates (petroleum), hydrotreated heavy paraffinic
Baseoil - unspecified

Special provisions according to Annex XVII of REACH and subsequent amendments:
Restricted to professional users.

2.3. Other hazards
vPvB Substances: None - PBT Substances: None

Other Hazards:
No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances
N.A.

3.2. Mixtures
Hazardous components within the meaning of the CLP regulation and related classification:

>= 60% - < 70% Distillates (petroleum), hydrotreated light
Index number: 649-422-00-2, CAS: 64742-47-8, EC: 926-141-6
3.10/1 Asp. Tox. 1 H304
EUH066

>= 20% - < 25% 2-Ethylhexyl nitrate
EC: 248-363-6
3.1/4/Dermal Acute Tox. 4 H312
3.1/4/Inhal Acute Tox. 4 H332
3.1/4/Oral Acute Tox. 4 H302
4.1/C2 Aquatic Chronic 2 H411

>= 3% - < 5% 2-Ethylhexan-1-ol
REACH No.: 01-2119487289-20, CAS: 104-76-7, EC: 203-234-3
3.8/3 STOT SE 3 H335
3.3/2 Eye Irrit. 2 H319
3.2/2 Skin Irrit. 2 H315
3.1/4/Inhal Acute Tox. 4 H332

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:
Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.
Wash with plenty of water and soap.
Wash thoroughly the body (shower or bath).
Remove contaminated clothing immediately and dispose off safely.

In case of eyes contact:
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:
Do NOT induce vomiting.
In case of Inhalation:
Remove casualty to fresh air and keep warm and at rest.
4.2. Most important symptoms and effects, both acute and delayed
None
4.3. Indication of any immediate medical attention and special treatment needed
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
None

SECTION 5: Firefighting measures

5.1. Extinguishing media

To carbon dioxide.
To dust.

Water spray.

Do not use direct water jets.
5.2. Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
5.3. Advice for firefighters
Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.
6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand
6.3. Methods and material for containment and cleaning up
Wash with plenty of water.
6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.
7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
2-Ethylhexyl nitrate
20101.12 - TWA: 1 ppm
2-Ethylhexan-1-ol - CAS: 104-76-7
EU - TWA(8h): 1 ppm
ACGIH - TWA: 50 ppm
DNEL Exposure Limit Values
2-Ethylhexan-1-ol - CAS: 104-76-7
Worker Professional: 12.8 mg/m3 - Consumer: 2.3 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 53.2 mg/m3 - Consumer: 26.6 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Professional: 53.2 mg/m3 - Consumer: 26.6 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, local effects
Worker Professional: 23 mg/kg - Consumer: 11.4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 1.1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
PNEC Exposure Limit Values
2-Ethylhexan-1-ol - CAS: 104-76-7
Target: Fresh Water - Value: 0.017 mg/l
Target: Marine water - Value: 0.0017 mg/l
Target: Freshwater sediments - Value: 0.28 mg/kg
Target: Marine water sediments - Value: 0.028 mg/kg
Target: 09 - Value: 10 mg/l
8.2. Exposure controls
Eye protection:
Eye glasses with side protection.

Protection for skin:

Protection for hands:
Nitrile or Viton gloves.
Compliant with EN 374.
Respiratory protection:
Not needed for normal use.
Thermal Hazards:
None
Environmental exposure controls:
None
Appropriate engineering controls:
None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Liquid Brown	--	--
Odour:	Characteristic	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	>65°C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	N.A.	--	--
Relative density:	0.854 g/ml	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	<20 mm2/s	--	--
Explosive properties:	N.A.	--	--
Oxidizing properties:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--

Substance Groups relevant properties	N.A.	--	--

NA=not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions
10.2. Chemical stability
Stable under normal conditions
10.3. Possibility of hazardous reactions
None
10.4. Conditions to avoid
Stable under normal conditions.
10.5. Incompatible materials
None in particular.
10.6. Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Toxicological information of the product:
PETRONAS Durance DIESEL PARTICULATE FILER TREATMENT ML 250
a) acute toxicity

Based on available data, the classification criteria are not met
Test: LD50 - Route: Oral - Species: Rat > 10000 mg/kg
b) skin corrosion/irritation

Based on available data, the classification criteria are not met
c) serious eye damage/irritation

Based on available data, the classification criteria are not met
Test: Skin Corrosive - Route: Skin - Species: Rabbit > 5000 mg/kg
d) respiratory or skin sensitisation

Based on available data, the classification criteria are not met
e) germ cell mutagenicity

Based on available data, the classification criteria are not met
f) carcinogenicity

Based on available data, the classification criteria are not met
g) reproductive toxicity

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

Based on available data, the classification criteria are not met
i) STOT-repeated exposure

Based on available data, the classification criteria are not met
j) aspiration hazard
The product is classified: Asp. Tox. 1 H304
Test: LC50 - Route: Inhalation Dust - Species: Rat 10 mg/l - Duration: 4h
Toxicological information of the main substances found in the product:

Distillates (petroleum), hydrotreated light - CAS: 64742-47-8
a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat > 5000 mg/m3 - Duration: 8h
Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
b) skin corrosion/irritation:
Test: OECD TG 404 - Route: Skin Negative
c) serious eye damage/irritation:
Test: OECD TG 405 - Route: EYE Negative
d) respiratory or skin sensitisation:
Test: Inhalation Sesitization 3
Test: Skin Sensitization 3
j) aspiration hazard:
Test: May be fatal if swallowed and enters airways (physical-chemical properties) - Route: Oral Positive
2-Ethylhexyl nitrate
d) respiratory or skin sensitisation:
Test: Skin Sensitization - Route: Skin Negative
e) germ cell mutagenicity:
Test: Mutagenesis Negative
h) STOT-single exposure:
Test: Respiratory Tract Irritant - Route: Inhalation Positive
i) STOT-repeated exposure:
Test: May cause drowsiness and dizziness. Positive
2-Ethylhexan-1-ol - CAS: 104-76-7
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 2047 mg/kg
Test: LC50 - Route: Skin - Species: Rat > 3000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat 0.89-5.3 mg/l - Duration: 4h
c) serious eye damage/irritation:
Test: Eye Irritant - Species: Rabbit Positive
d) respiratory or skin sensitisation:
Test: Respiratory Tract Irritant - Species: Rabbit Positive
e) germ cell mutagenicity:
Test: Mutagenesis Negative
h) STOT-single exposure:
Test: Respiratory Tract Irritant - Species: mam Positive
Test: NOAEL - Route: Oral - Species: Rat 250 mg/kg
Test: NOAEL - Route: Inhalation - Species: Rat 638.4 mg/m3

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.
Distillates (petroleum), hydrotreated light - CAS: 64742-47-8
a) Aquatic acute toxicity:
Endpoint: EL0 - Species: Daphnia 1000 mg/l - Duration h: 48
Endpoint: EL0 - Species: Algae 1000 mg/l - Duration h: 72
Endpoint: CE7 - Species: Fish 1000 mg/l - Duration h: 96
2-Ethylhexyl nitrate
a) Aquatic acute toxicity:
Endpoint: LC50 - Species: Fish 2 mg/l - Duration h: 96
Endpoint: NOEC - Species: Fish 1.52 mg/l - Duration h: 96
Endpoint: EC50 - Species: Algae 3.22 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia > 12.6 mg/l - Duration h: 48
2-Ethylhexan-1-ol - CAS: 104-76-7
a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 28.2 mg/l - Duration h: 96
Endpoint: LC50 - Species: Fish 17.1 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia 39 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae 11.5 mg/l - Duration h: 72
Endpoint: NOEC - Species: fanghi > 300 mg/l - Duration h: 24

12.2. Persistence and degradability
None
2-Ethylhexyl nitrate
Biodegradability: N.A.Test: BIOGDG07 - Duration: 28gg - %: 0 - Notes: N.A.
2-Ethylhexan-1-ol - CAS: 104-76-7
Biodegradability: 4 - Test: N.A. - Duration: 14 days - %: 100 - Notes: N.A.

12.3. Bioaccumulative potential
2-Ethylhexyl nitrate
Bioaccumulation: N.A.Test: Kow - Partition coefficient 5.24 - Duration: N.A. - Notes: N.A.
2-Ethylhexan-1-ol - CAS: 104-76-7
Bioaccumulation: N.A.Test: BCF - Bioconcentrantion factor 25.33 - Duration: N.A. - Notes: N.A.

12.4. Mobility in soil
2-Ethylhexan-1-ol - CAS: 104-76-7
Mobility in soil: N.A.Test: Log Koc 1.415 - Duration: N.A. - Notes: N.A.

12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects
None

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name
N.A.

14.3. Transport hazard class(es)
N.A.

14.4. Packing group
N.A.

14.5. Environmental hazards
ADR-Enviromental Pollutant: No
IMDG-Marine pollutant: No

14.6. Special precautions for user
N.A.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
None

Volatile Organic compounds - VOCs = 67.70 %
Volatile Organic compounds - VOCs = 676.95 g/Kg
Volatile Organic compounds - VOCs = 578.12 g/l
Where applicable, refer to the following regulatory provisions :
Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
None

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for the mixture.
Substances for which a Chemical Safety Assessment has been carried out:
None

SECTION 16: Other information

Text of phrases referred to under heading 3:
H304 May be fatal if swallowed and enters airways.
EUH066 Repeated exposure may cause skin dryness or cracking.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.
H302 Harmful if swallowed.
H411 Toxic to aquatic life with long lasting effects.
H335 May cause respiratory irritation.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2

Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 3: Composition/information on ingredients
SECTION 5: Firefighting measures
SECTION 8: Exposure controls/personal protection
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 15: Regulatory information
SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	**Classification procedure**
Asp. Tox. 1, H304	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO: International Civil Aviation Organization.

ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NA:	Not applicable
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.