

Safety Data Sheet
ADDITIVO ANTIVEGETATIVO DIESEL - DIESEL
PROTECTION ADDITIVE ML 250



Safety Data Sheet dated 7/7/2019, version 4

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

1.1. Product identifier

Mixture identification:

Trade name: ADDITIVO ANTIVEGETATIVO DIESEL - DIESEL
PROTECTION ADDITIVE ML 250

Trade code: 9828

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):

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards



Safety Data Sheet

ADDITIVO ANTIVEGETATIVO DIESEL - DIESEL PROTECTION ADDITIVE ML 250

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:

>= 30% - < 40% Distillates (petroleum), hydrotreated light

REACH No.: 01-2119456620-43, Index number: 649-422-00-2, CAS: 64742-47-8, EC:
926-141-6

⚠ 3.10/1 Asp. Tox. 1 H304

EUH066

>= 30% - < 40% 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

>= 30% - < 40% 3,3'-Methylenebis[5-methyloxazolidine]

EC: 266-235-8

⚠ 3.1/4/Oral Acute Tox. 4 H302

⚠ 3.1/3/Dermal Acute Tox. 3 H311

⚠ 3.1/4/Inhal Acute Tox. 4 H332

⚠ 3.3/1 Eye Dam. 1 H318

⚠ 3.2/1B Skin Corr. 1B H314

⚠ 3.9/2 STOT RE 2 H373

⚠ 3.6/1B Carc. 1B H350

⚠ 3.5/2 Muta. 2 H341

⚠ 4.1/C2 Aquatic Chronic 2 H411

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

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 under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

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

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media:

Not Recommended Extinguishing Media:

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.



Safety Data Sheet

ADDITIVO ANTIVEGETATIVO DIESEL - DIESEL PROTECTION ADDITIVE ML 250

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.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

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-Ethylhexan-1-ol - CAS: 104-76-7

EU - TWA(8h): 5.4 mg/m³, 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 -



Safety Data Sheet

ADDITIVO ANTIVEGETATIVO DIESEL - DIESEL PROTECTION ADDITIVE ML 250

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:

Not needed for normal use. Anyway, operate according good working practices.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Not needed for normal use.

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 Light	--	--
Odour:	N.A.	--	--
Odour threshold:	N.A.	--	--
pH:	N.A.	--	--
Melting point / freezing point:	N.A.	--	--
Initial boiling point and boiling range:	N.A.	--	--
Flash point:	>70°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:	0,880 g/ml	--	--



Safety Data Sheet

ADDITIVO ANTIVEGETATIVO DIESEL - DIESEL PROTECTION ADDITIVE ML 250

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:	N.A.	--	--
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:
ADDITIVO ANTIVEGETATIVO DIESEL - DIESEL PROTECTION ADDITIVE ML 250

a) acute toxicity

- Based on available data, the classification criteria are not met
- b) skin corrosion/irritation

Safety Data Sheet

ADDITIVO ANTIVEGETATIVO DIESEL - DIESEL PROTECTION ADDITIVE ML 250



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
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

Based on available data, the classification criteria are not met
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 Sensitization 3

Test: Skin Sensitization 3

j) aspiration hazard:

Test: May be fatal if swallowed and enters airways (physical-chemical properties) - Route:
Oral 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

Safety Data Sheet

ADDITIVO ANTIVEGETATIVO DIESEL - DIESEL PROTECTION ADDITIVE ML 250



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-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

3,3'-Methylenebis[5-methyloxazolidine]

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 57.7 mg/kg - Duration h: 96

Endpoint: EC50 - Species: Daphnia 28 mg/kg - Duration h: 48

Endpoint: NOEC - Species: Daphnia 1.3 mg/kg - Duration h: 504

Endpoint: EC50 - Species: Algae 4.7 mg/kg - Duration h: 72

Endpoint: NOEC - Species: Algae 0.9 mg/kg - Duration h: 72

Endpoint: EC50 - Species: fanghi 44 mg/kg - Duration h: 2.4

12.2. Persistence and degradability

None

2-Ethylhexan-1-ol - CAS: 104-76-7

Biodegradability: 4 - Duration: 14 days - %: 100

3,3'-Methylenebis[5-methyloxazolidine]

Biodegradability: 4 - Test: BIOGDG08 - Duration: 28gg - %: 69

Biodegradability: 4 - Test: BIOGDG06 - Duration: 28gg - %: 89.8

12.3. Bioaccumulative potential

2-Ethylhexan-1-ol - CAS: 104-76-7

Test: BCF - Bioconcentration factor 25.33

12.4. Mobility in soil

2-Ethylhexan-1-ol - CAS: 104-76-7

Test: Log Koc 1.415

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. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information



14.1. UN number

ADR-UN Number: 3267

IATA-UN Number: 3267



Safety Data Sheet

ADDITIVO ANTIVEGETATIVO DIESEL - DIESEL PROTECTION ADDITIVE ML 250

- IMDG-UN Number: 3267
- 14.2. UN proper shipping name
ADR-Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC,
N.O.S.(3,3'-Methylenebis[5-methyloxazolidine])
ADR-Shipping Name: Liquid ORGANICO CORROSIVO, BASICO, N.A.S.(3,3
IATA-Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC,
N.O.S.(3,3'-Methylenebis[5-methyloxazolidine])
IMDG-Shipping Name: CORROSIVE LIQUID, BASIC, ORGANIC,
N.O.S.(3,3'-Methylenebis[5-methyloxazolidine])
- 14.3. Transport hazard class(es)
ADR-Class: 8
ADR - Hazard identification number: 80
IATA-Class: 8
IATA-Label: 8
IMDG-Class: 8
Sea (IMO): 8
- 14.4. Packing group
ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III
- 14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
- 14.6. Special precautions for user
Rail (RID): 8
ADR-Subsidiary hazards: -
ADR-S.P.: 274
ADR-Transport category (Tunnel restriction code): 3 (E)
IATA-Passenger Aircraft: 852
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 856
IATA-S.P.: A3 A803
IATA-ERG: 8L
IMDG-EmS: F-A,
S-B
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category A SW2
IMDG-Segregation: SG35
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
No
Limited Quantity: 5 L
Exempted Quantity: E1

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)



Safety Data Sheet

ADDITIVO ANTIVEGETATIVO DIESEL - DIESEL PROTECTION ADDITIVE ML 250

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

No restriction.

Volatile Organic compounds - VOCs = 69.60 %

Volatile Organic compounds - VOCs = 696.00 g/Kg

Volatile Organic compounds - VOCs = 612.48 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.

H335 May cause respiratory irritation.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H332 Harmful if inhaled.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

H350 May cause cancer.

H341 Suspected of causing genetic defects.

H411 Toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Acute Tox. 3	3.1/3/Dermal	Acute toxicity (dermal), Category 3
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 Corr. 1B	3.2/1B	Skin corrosion, Category 1B

Safety Data Sheet

ADDITIVO ANTIVEGETATIVO DIESEL - DIESEL PROTECTION ADDITIVE ML 250



Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Muta. 2	3.5/2	Germ cell mutagenicity, Category 2
Carc. 1B	3.6/1B	Carcinogenicity, Category 1B
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

Paragraphs modified from the previous revision:

- SECTION 1: Identification of the substance/mixture and of the company/undertaking
- SECTION 2: Hazards identification
- SECTION 3: Composition/information on ingredients
- SECTION 4: First aid measures
- SECTION 5: Firefighting measures
- SECTION 6: Accidental release measures
- SECTION 7: Handling and storage
- SECTION 8: Exposure controls/personal protection
- SECTION 11: Toxicological information
- SECTION 12: Ecological information
- SECTION 13: Disposal considerations
- SECTION 14: Transport information
- SECTION 15: Regulatory information
- SECTION 16: Other information

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.
- ATE: Acute Toxicity Estimate
- ATEmix: Acute toxicity Estimate (Mixtures)
- 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.



Safety Data Sheet

ADDITIVO ANTIVEGETATIVO DIESEL - DIESEL PROTECTION ADDITIVE ML 250

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.