

Safety Data Sheet dated 3/7/2019, version 7

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

1.1. Product identifier

Mixture identification:

Trade name: PETRONAS Durance COMPLETE FUEL SYSTEM CLEANER

PETROL ML 250

Trade code: 9069

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

Recommended use: Carburettor cleaner

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.

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

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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

Hydrocarbons, C10, Aromatics, >1% Naphthalene

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

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:

>= 80% - < 90% 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

>= 5% - < 7% Hydrocarbons, C10, Aromatics, >1% Naphthalene

REACH No.: 01-2119463588-24, CAS: 64742-94-5, EC: 919-284-0

◆ 3.8/3 STOT SE 3 H336

♦ 3.10/1 Asp. Tox. 1 H304

4.1/C2 Aquatic Chronic 2 H411

EUH066

>= 3% - < 5% Polyolefin phenolic alkyleneamine, proprietà di Afton comP.di HiTEC

4 3.2/2 Skin Irrit. 2 H315

>= 3% - < 5% Polyether polyol

4.1/C3 Aquatic Chronic 3 H412

>= 0.25% - < 0.5% naphthalene

CAS: 91-20-3, EC: 202-049-5

♦ 3.6/2 Carc. 2 H351

◆ 3.1/4/Oral Acute Tox. 4 H302

4.1/A1 Aquatic Acute 1 H400 M=1.

♦ 4.1/C1 Aquatic Chronic 1 H410 M=1.

2.7/2 Flam. Sol. 2 H228

>= 0.25% - < 0.5% 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

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- ◆ 3.2/2 Skin Irrit. 2 H315
- ◆ 3.1/4/Inhal Acute Tox. 4 H332

>= 0.1% - < 0.25% Diethylbenzene

CAS: 25340-17-4, EC: 246-874-9

- 2.6/3 Flam. Liq. 3 H226
- 4 3.2/2 Skin Irrit. 2 H315
- 3.10/1 Asp. Tox. 1 H304
- ♦ 4.1/A1 Aquatic Acute 1 H400 M=1.
- ♦ 4.1/C1 Aquatic Chronic 1 H410 M=1.

>= 0.1% - < 0.25% Mesitilene

CAS: 108-67-8, EC: 203-604-4

- ◆ 2.6/3 Flam. Liq. 3 H226
- ◆ 3.2/2 Skin Irrit. 2 H315
- **♦** 3.8/3 STOT SE 3 H335
- ♦ 3.10/1 Asp. Tox. 1 H304
- 4.1/C2 Aquatic Chronic 2 H411

>= 0.1% - < 0.25% 1,2,4-trimethylbenzene

CAS: 95-63-6, EC: 202-436-9

- **2.6/3 Flam. Liq. 3 H226**
- ◆ 3.1/4/Inhal Acute Tox. 4 H332
- ◆ 3.2/2 Skin Irrit. 2 H315
- 1 3.3/2 Eye Irrit. 2 H319
- **1** 3.8/3 STOT SE 3 H335
- 4.1/C2 Aquatic Chronic 2 H411

>= 0.02% - < 0.05% 2,2'-iminodiethanol

Index number: 603-071-00-1, CAS: 111-42-2, EC: 203-868-0

- ◆ 3.1/4/Oral Acute Tox. 4 H302
- ♦ 3.6/2 Carc. 2 H351
- ♦ 3.9/2 STOT RE 2 H373
- ♦ 3.3/1 Eye Dam. 1 H318
- ◆ 3.2/2 Skin Irrit. 2 H315
- 4.1/C3 Aquatic Chronic 3 H412

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

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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

Appropriate Extinguishing Media:

To carbon dioxide.

To dust.

Foam

Water spray.

Not Recommended Extinguishing Media:

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.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contamined 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.

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7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

naphthalene - CAS: 91-20-3

EU - TWA(8h): 50 mg/m3, 10 ppm

ACGIH - TWA(8h): 10 ppm - Notes: Skin, A3 - URT irr, cataracts, hemolytic anemia

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

EU - TWA(8h): 5.4 mg/m3, 1 ppm

Diethylbenzene - CAS: 25340-17-4

EU - TWA(8h): 10 mg/m3

Mesitilene - CAS: 108-67-8

EU - TWA(8h): 100 mg/m3, 20 ppm

1,2,4-trimethylbenzene - CAS: 95-63-6

EU - TWA(8h): 100 mg/m3, 20 ppm

2,2'-iminodiethanol - CAS: 111-42-2

ACGIH - TWA(8h): 1 mg/m3 - Notes: (IFV), Skin, A3 - Liver and kidney dam

EU - TWA(8h): 15 mg/m3, 3 ppm - STEL(): 30 mg/m3, 6 ppm

DNEL Exposure Limit Values

Hydrocarbons, C10, Aromatics, >1% Naphthalene - CAS: 64742-94-5

Worker Professional: 25 mg/kg - Consumer: 11 mg/kg - Exposure: Human Dermal Worker Professional: 150 mg/m3 - Consumer: 32 mg/m3 - Exposure: Human Inhalation

Concumer: 11 mg/kg Evnesure: Human Oral

Consumer: 11 mg/kg - Exposure: Human Oral

naphthalene - CAS: 91-20-3

Worker Professional: 1 mg/kg - Consumer: 0.5 mg/kg - Exposure: Human Oral Worker Professional: 3 mg/kg - Consumer: 1.5 mg/kg - Exposure: Human Dermal Worker Professional: 0.037 mg/m3 - Consumer: 0.0183 mg/m3 - Exposure: Human Inhalation

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

Worker Professional: 23 mg/kg - Consumer: 2.3 mg/m3 - Exposure: Human Inhalation

Worker Professional: 23 mg/kg - Exposure: Human Dermal

Consumer: 1.1 mg/kg - Exposure: Human Oral

Consumer: 11.4 mg/m3 - Exposure: Human Inhalation

2,2'-iminodiethanol - CAS: 111-42-2

Worker Professional: 0.13 mg/kg - Consumer: 0.07 mg/kg - Exposure: Human Dermal

Consumer: 0.06 mg/kg - Exposure: Human Oral

PNEC Exposure Limit Values

naphthalene - CAS: 91-20-3

Target: Fresh Water - Value: 0.0024 mg/l Target: Marine water - Value: 0.0024 mg/l

2,2'-iminodiethanol - CAS: 111-42-2

Target: Fresh Water - Value: 0.02 mg/l

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Compliant with EN 166

Protection for skin:

protective clothing

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,light yellow		
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:	0,833 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:	N.A.		
Explosive properties:	N.A.		
Oxidizing properties:	N.A.		

9.2. Other information



				PETRO
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

SECTION 11: Toxicological information

11.1. Information on toxicological effects Toxicological information of the product:

PETRONAS Durance COMPLETE FUEL SYSTEM CLEANER PETROL ML 250 a) acute toxicity

Based on available data, the classification criteria are not met 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 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

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Based on available data, the classification criteria are not met j) aspiration hazard

The product is classified: Asp. Tox. 1 H304

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

Hydrocarbons, C10, Aromatics, >1% Naphthalene - CAS: 64742-94-5

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 5.28 mg/m3 - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

c) serious eye damage/irritation:

Test: Eye Irritant - Route: EYE - Species: Rat Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: IND Negative

e) germ cell mutagenicity:

Test: Mutagenesis - Species: vitro Negative

g) reproductive toxicity:

Test: Reproductive Toxicity - Route: Oral - Species: Rat Negative Polyolefin phenolic alkyleneamine, proprietà di Afton comP.di HiTEC a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg Test: LD50 - Route: Skin - Species: Rat > 5000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Positive

c) serious eye damage/irritation:

Test: Eye Irritant - Route: EYE - Species: Rabbit Positive

g) reproductive toxicity:

Test: Reproductive Toxicity - Route: Oral - Species: Rat Positive

Polyether polyol

a) acute toxicity:

Test: LD50 - Route: Skin - Species: Rabbit > 3000 mg/kg Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Positive

c) serious eye damage/irritation:

Test: Eye Irritant - Route: EYE - Species: Rabbit Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: IND Negative

e) germ cell mutagenicity:

Test: Mutagenesis - Species: vitro Negative

naphthalene - CAS: 91-20-3

a) acute toxicity:

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CLEANER PETROL ML 250
                   Test: LC50 - Route: Inhalation - Species: Rat > 100 Ppm - Duration: 8hp Hates: CAS Test: LC50 - Route: Inhalation Vapour - Species: Rat > 0.4 mg/l - Duration: 4h
                    Test: LD50 - Route: Skin - Species: Rat > 2500 mg/kg
                    Test: LD50 - Route: Skin - Species: Rat > 16000 mg/kg
                    Test: LD50 - Route: Oral - Species: Mouse 533 mg/kg
                    Test: LD50 - Route: Oral - Species: Rat 2600 mg/kg
             b) skin corrosion/irritation:
                    Test: Skin Irritant - Route: Skin - Species: Rabbit Positive
             c) serious eve damage/irritation:
                    Test: Eye Irritant - Route: EYE - Species: Rabbit Positive
             d) respiratory or skin sensitisation:
                    Test: Skin Sensitization - Route: Skin - Species: IND Negative
             f) carcinogenicity:
                    Test: Carcinogeneticy - Species: Rat Positive
             2-Ethylhexan-1-ol - CAS: 104-76-7
             a) acute toxicity:
                    Test: LD50 - Route: Oral - Species: Rat 2040 mg/kg
                    Test: LD50 - Route: Skin - Species: Rabbit > 3000 mg/kg
                    Test: LC50 - Route: Inhalation - Species: Rat 0.89-5.3 mg/l - Duration: 4h
                    Test: LD50 - Route: Skin - Species: Rat 1970 mg/kg
             b) skin corrosion/irritation:
                    Test: Skin Irritant - Route: Skin - Species: Rabbit Positive
             c) serious eye damage/irritation:
                    Test: Eye Irritant - Route: EYE - Species: Rabbit Positive
             d) respiratory or skin sensitisation:
                    Test: Respiratory Tract Irritant - Species: Rabbit Positive
             e) germ cell mutagenicity:
                    Test: Mutagenesis - Species: vitro Negative
             f) carcinogenicity:
                    Test: Carcinogeneticy - Route: Oral - Species: Mouse Negative
             g) reproductive toxicity:
                    Test: Reproductive Toxicity - Route: Oral - Species: Rat Negative
             Diethylbenzene - CAS: 25340-17-4
             a) acute toxicity:
                    Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg
                    Test: LD50 - Route: Oral - Species: Rat 2050 mg/kg
             b) skin corrosion/irritation:
                    Test: Skin Irritant - Route: Skin - Species: Rabbit Positive
             c) serious eye damage/irritation:
                    Test: Eye Irritant - Route: EYE - Species: Rabbit Positive
             d) respiratory or skin sensitisation:
                    Test: Skin Sensitization - Route: Skin - Species: IND Negative
             e) germ cell mutagenicity:
                    Test: Mutagenesis - Species: vitro Negative
             f) carcinogenicity:
                    Test: Carcinogeneticy - Route: Skin - Species: Mouse Negative
             g) reproductive toxicity:
                    Test: Reproductive Toxicity - Route: Oral - Species: Rat Negative
             Mesitilene - CAS: 108-67-8
             a) acute toxicity:
                    Test: LC50 - Route: Inhalation - Species: Rat 24000 mg/l - Duration: 4h
                    Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
                    Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg
             b) skin corrosion/irritation:
                    Test: Skin Irritant - Route: Skin - Species: Rabbit Positive
             c) serious eye damage/irritation:
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Test: Eye Irritant - Route: EYE - Species: Rabbit Positive

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d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: IND Negative

e) germ cell mutagenicity:

Test: Mutagenesis - Species: vitro Negative

g) reproductive toxicity:

Test: Reproductive Toxicity - Route: Inhalation - Species: Rat Positive

1,2,4-trimethylbenzene - CAS: 95-63-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 3440 mg/kg Test: LD50 - Route: Skin - Species: Rabbit 3160 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 10200 mg/l - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat 5000 mg/kg Test: LD50 - Route: Oral - Species: Rat 3400-6000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rabbit Positive

c) serious eye damage/irritation:

Test: Eye Irritant - Route: EYE - Species: Rabbit Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: IND Positive

e) germ cell mutagenicity:

Test: Mutagenesis - Species: vitro Negative

g) reproductive toxicity:

Test: Reproductive Toxicity - Route: Inhalation - Species: Rat Positive

2,2'-iminodiethanol - CAS: 111-42-2

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat 3.35 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit 12200 mg/kg Test: LD50 - Route: Oral - Species: Rat 1600 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Positive

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: IND Negative

e) germ cell mutagenicity:

Test: oecd - Species: vitro Negative

f) carcinogenicity:

Test: Carcinogeneticy - Species: Rat Positive

g) reproductive toxicity:

Test: oecd 3 - Route: Oral - Species: Rat Positive

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

Hydrocarbons, C10, Aromatics, >1% Naphthalene - CAS: 64742-94-5

a) Aquatic acute toxicity:

Endpoint: EL50 - Species: Algae > 1 mg/l - Duration h: 72

Endpoint: EL50 - Species: Daphnia = 1.4 mg/l - Duration h: 48

Endpoint: LL50 - Species: Fish = 2-5 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEL - Species: Fish = 1 mg/l - Duration h: 72

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Endpoint: NOEL - Species: Daphnia = 0.48 mg/l - Duration h: 504 Polyolefin phenolic alkyleneamine , proprietà di Afton comP.di HiTEC a) Aquatic acute toxicity:

Endpoint: EL50 - Species: Algae 84 mg/l - Duration h: 72 Endpoint: LL50 - Species: Daphnia 718 mg/l - Duration h: 96 Endpoint: LL50 - Species: Fish 175 mg/l - Duration h: 96 b) Aquatic chronic toxicity:

Endpoint: NOEL - Species: Algae 6.25 mg/l - Duration h: 72 naphthalene - CAS: 91-20-3

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Algae 2.96 mg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia 2.16 mg/l - Duration h: 48 Endpoint: EC50 - Species: Fish 0.96 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia 0.59 mg/l - Duration h: 3000 Endpoint: NOEC - Species: Fish 0.12 mg/l - Duration h: 960

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

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia 39 mg/l - Duration h: 48 Endpoint: EL50 - Species: Algae 16.6 mg/l - Duration h: 72 Endpoint: LC50 - Species: Fish 17.1 mg/l - Duration h: 96 b) Aquatic chronic toxicity:

Endpoint: EL10 - Species: Algae 5.3 mg/l - Duration h: 72 Diethylbenzene - CAS: 25340-17-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae 1.21 mg/l - Duration h: 72 Endpoint: EC50 - Species: Daphnia 2.01 mg/l - Duration h: 48 Endpoint: LC50 - Species: Fish 0.673 mg/l - Duration h: 96 Endpoint: NOEC - Species: fanghi > 1000 mg/l - Duration h: 3 b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae 0.547 mg/l - Duration h: 72 Mesitilene - CAS: 108-67-8

a) Aquatic acute toxicity:

Endpoint: EL50 - Species: Algae 25 mg/l - Duration h: 48 Endpoint: LL50 - Species: Daphnia 6 mg/l - Duration h: 72 Endpoint: LL50 - Species: Fish 12.52 mg/l - Duration h: 96 b) Aquatic chronic toxicity:

Endpoint: EL10 - Species: Algae 8.1 mg/l - Duration h: 48 Endpoint: NOEC - Species: Daphnia 0.4 mg/l - Duration h: 504 1,2,4-trimethylbenzene - CAS: 95-63-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Daphnia 3.6 mg/l - Duration h: 48 Endpoint: LC50 - Species: Fish 7.72 mg/l - Duration h: 96

2,2'-iminodiethanol - CAS: 111-42-2

a) Aquatic acute toxicity:

Endpoint: EL10 - Species: fanghi > 1000 mg/l - Duration h: 0.5 Endpoint: EL50 - Species: Algae 9.5 mg/l - Duration h: 72 Endpoint: EL50 - Species: Daphnia 30.1 mg/l - Duration h: 48 Endpoint: LC50 - Species: Fish 1370 mg/l - Duration h: 96 Endpoint: LL50 - Species: Fish 460 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: EL10 - Species: Daphnia 0.78 mg/l - Duration h: 504 Endpoint: NOEL - Species: Algae 0.6 mg/l - Duration h: 72

12.2. Persistence and degradability

None

Hydrocarbons, C10, Aromatics, >1% Naphthalene - CAS: 64742-94-5 Biodegradability: 4 - Test: BIOGDG10 - Duration: 28gg - %: 58.6

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Polyolefin phenolic alkyleneamine , proprietà di Afton comP.di HiTEC Biodegradability: Non-readily biodegradable - Test: BIOGDG08 - Duration: 28g

naphthalene - CAS: 91-20-3

Biodegradability: Non-readily biodegradable - Test: OECD 302C - Duration: 28gg - %: 0-2

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

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

Diethylbenzene - CAS: 25340-17-4

Biodegradability: Non-readily biodegradable - Test: BIOGDG06 - Duration: 28gg - %: 4.7

Mesitilene - CAS: 108-67-8

Biodegradability: Non-readily biodegradable - Duration: 28gg - %: 42

1,2,4-trimethylbenzene - CAS: 95-63-6

Biodegradability: Readily biodegradable

2,2'-iminodiethanol - CAS: 111-42-2

Biodegradability: Readily biodegradable - Test: BIOGDG10 - Duration: 28gg - %: 93

12.3. Bioaccumulative potential

Hydrocarbons, C10, Aromatics, >1% Naphthalene - CAS: 64742-94-5

Test: log Pow 2.8-6.5

Test: BCF - Bioconcentrantion factor 99-5780

naphthalene - CAS: 91-20-3

Test: log Pow 3.4

Test: BCF - Bioconcentrantion factor 36.5-168

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

Test: BCF - Bioconcentrantion factor 25.33

Test: log Pow 2.9

Diethylbenzene - CAS: 25340-17-4

Test: BCF - Bioconcentrantion factor 320-629

Mesitilene - CAS: 108-67-8

Test: log Pow 3.42

Test: BCF - Bioconcentrantion factor 161

1,2,4-trimethylbenzene - CAS: 95-63-6

Test: log Pow 3.63

Test: BCF - Bioconcentrantion factor 243

2,2'-iminodiethanol - CAS: 111-42-2

Bioaccumulation: Not bioaccumulative - Test: log Pow -1.43

12.4. Mobility in soil

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.Ä.

14.3. Transport hazard class(es)

ΙΔ

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14.4. Packing group

N.A.

14.5. Environmental hazards

ADR-Enviromental Pollutant: No IMDG-Marine pollutant: No

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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)

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

Restriction 40

Restrictions related to the substances contained:

No restriction.

Volatile Organic compounds - VOCs = 86.75 %

Volatile Organic compounds - VOCs = 867.47 g/Kg

Volatile Organic compounds - VOCs = 714.79 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.

H336 May cause drowsiness or dizziness.

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H411 Toxic to aquatic life with long lasting effects.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

H351 Suspected of causing cancer.

H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H228 Flammable solid.

H335 May cause respiratory irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H226 Flammable liquid and vapour.

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

H318 Causes serious eye damage.

Hazard class and hazard category	Code	Description
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Flam. Sol. 2	2.7/2	Flammable solid, Category 2
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 Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Carc. 2	3.6/2	Carcinogenicity, Category 2
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 Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
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 2: Hazards identification

SECTION 3: Composition/information on ingredients

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 11: Toxicological information SECTION 12: Ecological information

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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.

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.

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

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WGK: German Water Hazard Class.