

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



Safety Data Sheet dated 9/1/2025, version 11

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

- 1.1. Product identifier
Mixture identification:
Trade name: PULITORE INIETTORI - INJECTOR CLEANER
Trade code: 9843
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended use:
Fuel additive
Uses advised against:
Strictly adhere to the recommended uses.
- 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
In England and Wales: NHS 111 - dial 111
In Scotland: NHS 24 - dial 111
In Ireland: emergency number 112
In South Africa: Poison Information Helpline 0861 555 777
In Malta: emergency number 112

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 carefully and follow all instructions.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



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 tactile indications of danger for blind people.

EUH208 Contains amides, C18-unsatd., N-[3-(dimethylamine)propyl]. May produce an allergic reaction.

Contains

Distillates (petroleum), hydrotreated light

Hydrocarbons, C10, aromatics, > 1% naphthalene

Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene

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

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

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:

stta	Name	Ident. Number	Classification
$\geq 90\%$	Distillates (petroleum), hydrotreated light	EC: 926-141-6 REACH No.: 01-2119456620-43	☠ 3.10/1 Asp. Tox. 1 H304 EUH066
$\geq 2\% - < 3\%$	Poliolefina alchilfenolo		⚠ 3.2/2 Skin Irrit. 2 H315
$\geq 1\% - < 2\%$	Hydrocarbons, C10, aromatics, > 1% naphthalene	EC: 919-284-0 REACH No.: 01-2119463588-24	⚠ 3.8/3 STOT SE 3 H336 ☠ 3.10/1 Asp. Tox. 1 H304 ⚠ 4.1/C2 Aquatic Chronic 2 H411 EUH066
$\geq 1\% - < 2\%$	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene	EC: 926-273-4 REACH No.: 01-2119451151-53	⚠ 3.8/3 STOT SE 3 H336 ☠ 3.10/1 Asp. Tox. 1 H304 ⚠ 4.1/C2 Aquatic Chronic 2 H411 EUH066
$\geq 0,25\% - < 0,5\%$	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 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.8/3 STOT SE 3 H335 ☠ 3.10/1 Asp. Tox. 1 H304 ⚠ 4.1/C2 Aquatic Chronic 2 H411 Acute Toxicity Estimate:

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



			ATE - Inhalation (Vapours) 11 mg/l
>= 0,25% - < 0,5%	naphthalene	CAS: 91-20-3 EC: 202-049-5	<div> <div></div> 3.6/2 Carc. 2 H351 <div></div> 3.1/4/Oral Acute Tox. 4 H302 <div></div> 4.1/A1 Aquatic Acute 1 H400 M=1. <div></div> 4.1/C1 Aquatic Chronic 1 H410 M=1. <div></div> 2.7/2 Flam. Sol. 2 H228 </div> Acute Toxicity Estimate: ATE - Oral 500 mg/kg bw
>= 0,1% - < 0,25%	Mesitilene	CAS: 108-67-8 EC: 203-604-4	<div> <div></div> 2.6/3 Flam. Liq. 3 H226 <div></div> 3.2/2 Skin Irrit. 2 H315 <div></div> 3.3/2 Eye Irrit. 2 H319 <div></div> 3.8/3 STOT SE 3 H335 <div></div> 3.10/1 Asp. Tox. 1 H304 <div></div> 4.1/C2 Aquatic Chronic 2 H411 </div>
>= 0,1% - < 0,25%	2-Ethylhexan-1-ol	CAS: 104-76-7 EC: 203-234-3 REACH No.: 01-2119487289-20	<div> <div></div> 3.1/4/Inhal Acute Tox. 4 H332 <div></div> 3.2/2 Skin Irrit. 2 H315 <div></div> 3.3/2 Eye Irrit. 2 H319 <div></div> 3.8/3 STOT SE 3 H335 </div> Acute Toxicity Estimate: ATE - Inhalation (Vapours) 11 mg/l
>= 0,1% - < 0,25%	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C16-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts	EC: 947-523-9 REACH No.: 01-2120765005-60	<div> <div></div> 3.2/2 Skin Irrit. 2 H315 <div></div> 3.3/2 Eye Irrit. 2 H319 <div></div> 4.1/A1 Aquatic Acute 1 H400 </div>
>= 0,02% - < 0,05%	amides, C18-unsatd., N-[3-(dimethylamine) propyl]	CAS: 1379524-06-7 EC: 800-353-8	<div> <div></div> 3.2/1B Skin Corr. 1B H314 <div></div> 3.3/1 Eye Dam. 1 H318 <div></div> 3.4.2/1A Skin Sens. 1A H317 <div></div> 4.1/A1 Aquatic Acute 1 H400 <div></div> 4.1/C1 Aquatic Chronic 1 H410 </div>
>= 0,005% - < 0,01%	Cumene	Index number: 601-024-00-X CAS: 98-82-8 EC: 202-704-5	<div> <div></div> 2.6/3 Flam. Liq. 3 H226 <div></div> 3.6/1B Carc. 1B H350 <div></div> 3.10/1 Asp. Tox. 1 H304 <div></div> 3.8/3 STOT SE 3 H335 <div></div> 4.1/C2 Aquatic Chronic 2 H411 </div>

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.

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



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

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

Normal fire-fighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame-resistant suit (EN469), flame-resistant gloves (EN 659) and firefighter's boots (HO A29 or A30).

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

For cleaning up:

Avoid flame and/or spark near leak and produced waste. Do not smoke. In case of large spills dike, absorb and shovel up into suitable containers for disposal. Contain small spills with absorbent material.

Put dirty material in suitable container. Dispose of dirty material in accordance with local or national regulations.

6.4. Reference to other sections

See also section 8 and 13

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



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
 - Only store in the original container.
 - 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
 - 1,2,4-trimethylbenzene - CAS: 95-63-6
 - EU - TWA(8h): 100 mg/m³, 20 ppm
 - 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
 - Mesitilene - CAS: 108-67-8
 - EU - TWA(8h): 100 mg/m³, 20 ppm
 - ACGIH - TWA(8h): 10 ppm - Notes: CNS impair, hematologic eff
 - 2-Ethylhexan-1-ol - CAS: 104-76-7
 - EU - TWA(8h): 5.4 mg/m³, 1 ppm
 - Cumene - CAS: 98-82-8
 - EU - TWA(8h): 50 mg/m³, 10 ppm - STEL: 250 mg/m³, 50 ppm - Notes: Skin
 - ACGIH - TWA(8h): 5 ppm - Notes: A3 - URT adenoma, neurological eff
- DNEL Exposure Limit Values
 - naphthalene - CAS: 91-20-3
 - Worker Professional: 3.57 mg/kg - Exposure: Human Dermal
 - Worker Professional: 25 mg/m³ - Exposure: Human Inhalation
 - 2-Ethylhexan-1-ol - CAS: 104-76-7
 - Consumer: 2.3 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 - Consumer: 1.1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
 - Worker Professional: 23 mg/kg - Consumer: 11.4 mg/m³ - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 - 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C16-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts
 - Worker Professional: 10.6 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 - Worker Professional: 3 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
 - amides, C18-unsatd., N-[3-(dimethylamine)propyl] - CAS: 1379524-06-7
 - Worker Professional: 3.67 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
 - Worker Professional: 1.04 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
- PNEC Exposure Limit Values
 - naphthalene - CAS: 91-20-3

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



Target: Fresh Water - Value: 0.0024 mg/l
 Target: Marine water - Value: 0.0024 mg/l
 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C16-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts
 Target: Fresh Water - Value: 0.406 03
 Target: Marine water - Value: 40.6 03
 amides, C18-unsatd., N-[3-(dimethylamine)propyl] - CAS: 1379524-06-7
 Target: Fresh Water - Value: 1.4 03
 Target: Marine water - Value: 0.14 03

8.2. Exposure controls

Eye protection:

Safety goggles.

Compliant with EN 166

Protection for skin:

protective clothing

Protection for hands:

Nitrile or Viton gloves.

Compliant with EN 374.

Thickness: Cuff 0.10 mm; Palm 0.12 mm; Fingers 0.145 mm

Respiratory protection:

Use a suitable respiratory protection device.

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:
Physical state:	Liquid	--	--
Colour:	Yellow	--	--
Odour:	N.A.	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	>65°C	IP 170	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



Kinematic viscosity:	<= 14 mm ² /sec (40 °C)	--	--
Solubility in water:	N.A.	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	0.817 g/ml	ASTM D 4052-96	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Viscosity:	1.9 mm ² /s @40°C	07	--

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

Toxicological information of the product:

PULITORE INIETTORI BENZINA PROFESSIONAL ML 350

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



- d) respiratory or skin sensitisation
Not classified
Based on available data, the classification criteria are not met
- e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
- f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
- g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
- h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
- i) STOT-repeated exposure
Not classified
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

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

Hydrocarbons, C10, aromatics, > 1% naphthalene

a) acute toxicity:

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

Test: LD50 - Route: Oral - Species: Rat 6318 mg/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 4778 mg/m³ - Duration: 4h

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Negative

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: IND Negative

e) germ cell mutagenicity:

Test: oecd - Species: vitro Negative

g) reproductive toxicity:

Test: OECD 415 - Route: Inhalation - Species: Rat Positive

Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene

a) acute toxicity:

Test: LC50 - Route: Inhalation Dust - Species: Rat > 4778 mg/m³ - Duration: 4h

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

Test: LD50 - Route: Oral - Species: Rat 6318 mg/kg

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rat Negative

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Species: IND Negative

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



- e) germ cell mutagenicity:
 - Test: oecd - Species: vitro Negative
- g) reproductive toxicity:
 - Test: OECD 415 - Route: Oral - Species: Rat Positive
- 1,2,4-trimethylbenzene - CAS: 95-63-6
- a) acute toxicity
 - ATE - Inhalation (Vapours) 11 mg/l
 - Test: LD50 - Route: Skin - Species: Rat > 3440 mg/kg
 - Test: LD50 - Route: Oral - Species: Rat 6000 mg/kg
 - Test: LC50 - Route: Inhalation - Species: Rat > 10200 mg/l - Duration: 4h
- b) skin corrosion/irritation:
 - Test: Skin Irritant - Route: Skin - 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
- g) reproductive toxicity:
 - Test: Reproductive Toxicity - Route: Inhalation - Species: Rat Positive
- naphthalene - CAS: 91-20-3
- a) acute toxicity
 - ATE - Oral 500 mg/kg bw
 - Test: LC50 - Route: Inhalation Vapour - Species: Rat > 0.4 mg/l - Duration: 4h
 - Test: LD50 - Route: Skin - Species: Rat > 16000 mg/kg
 - Test: LD50 - Route: Oral - Species: Mouse 533 mg/kg
- b) skin corrosion/irritation:
 - Test: Skin Irritant - Route: Skin - Species: Rabbit Negative
- c) serious eye damage/irritation:
 - Test: Eye Irritant - Route: EYE - Species: Rabbit Negative
- d) respiratory or skin sensitisation:
 - Test: Skin Sensitization - Route: Skin - Species: IND Negative
- f) carcinogenicity:
 - Test: Carcinogeneticity - Route: Inhalation - Species: Rat Positive
- g) reproductive toxicity:
 - Test: Reproductive Toxicity - Route: Inhalation - Species: Rat Positive
- Mesitilene - CAS: 108-67-8
- a) acute toxicity:
 - Test: LC50 - Route: Inhalation - Species: Rat > 10.2 mg/l - Duration: 4h
 - Test: LD50 - Route: Skin - Species: Rat > 3440 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:
 - 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
- g) reproductive toxicity:
 - Test: Reproductive Toxicity - Route: Inhalation - Species: Rat Positive
- 2-Ethylhexan-1-ol - CAS: 104-76-7
- a) acute toxicity
 - ATE - Inhalation (Vapours) 11 mg/l
 - Test: LD50 - Route: Oral - Species: Rat 2047 mg/kg
 - Test: LD50 - Route: Skin - Species: Rat 1970 mg/kg
 - Test: LC50 - Route: Inhalation - Species: Rat 0.89-5.3 mg/l - Duration: 4h
- b) skin corrosion/irritation:
 - Test: Skin Irritant - Route: Skin - Species: Rabbit Positive
- c) serious eye damage/irritation:

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



- Test: Eye Irritant - Route: EYE - Species: Rabbit Positive
- e) germ cell mutagenicity:
Test: Mutagenesis - Species: vitro Negative
- f) carcinogenicity:
Test: Carcinogeneticity - Route: Oral - Species: Mouse Negative
- g) reproductive toxicity:
Test: Reproductive Toxicity - Route: Oral - Species: Rat Negative
- 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C16-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts
- a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit > 2000 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: oecd - Species: vitro Negative
- amides, C18-unsatd., N-[3-(dimethylamine)propyl] - CAS: 1379524-06-7
- a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
- b) skin corrosion/irritation:
Test: Skin Corrosive - Route: Skin - Species: Rabbit Positive
- d) respiratory or skin sensitisation:
Test: Skin Sensitization - Species: IND Positive
- e) germ cell mutagenicity:
Test: oecd 2 - Species: vitro Negative
- g) reproductive toxicity:
Test: OECD 421 - Route: Oral - Species: Rat Negative
- Cumene - CAS: 98-82-8
- a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit > 10000 mg/kg
Test: LD50 - Route: Oral - Species: Rat 2260 mg/kg
- b) skin corrosion/irritation:
Test: Eye Irritant - Species: Rabbit Negative
Test: Skin Irritant - Species: Rabbit Negative
- d) respiratory or skin sensitisation:
Test: Skin Sensitization - Species: IND Negative
- e) germ cell mutagenicity:
Test: oecd - Species: vitro Negative
- f) carcinogenicity:
Test: Carcinogeneticity - Route: Inhalation - Species: Rat Positive
- g) reproductive toxicity:
Route: Inhalation - Species: Rat Positive

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

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

a) Aquatic acute toxicity:

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



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

Poliiolefina alchilfenolo

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae 5.4 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae 3.65 mg/l - Duration h: 96

Endpoint: NOEC - Species: Daphnia 3.38 mg/l - Duration h: 504

Hydrocarbons ,C10, aromatics, > 1% naphthalene

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: NOEC 1 mg/l - Duration h: 72

Endpoint: NOEC 0.48 mg/l - Duration h: 504

Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene

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: Algae 1 mg/l - Duration h: 72

Endpoint: NOEL - Species: Daphnia 0.48 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

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

Mesitilene - CAS: 108-67-8

a) Aquatic acute toxicity:

Endpoint: EL50 - Species: Algae 53 mg/l - Duration h: 48

Endpoint: LL50 - Species: Daphnia 6 mg/l - Duration h: 48

Endpoint: LL50 - Species: Fish 12.52 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: EL10 - Species: Algae 16 mg/l - Duration h: 48

Endpoint: NOEC - Species: Daphnia 0.4 mg/l - Duration h: 504

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

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C16-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae 85.4 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia 33.6 mg/l - Duration h: 48

Endpoint: EL50 - Species: fanghi > 100 mg/l - Duration h: 3

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



- Endpoint: LC50 - Species: Fish 0.406 mg/l - Duration h: 96
- b) Aquatic chronic toxicity:
Endpoint: NOEC - Species: Algae 42.9 mg/l - Duration h: 73
amides, C18-unsatd., N-[3-(dimethylamine)propyl] - CAS: 1379524-06-7
- a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Algae > 0.96 mg/l - Duration h: 72
Endpoint: EL50 - Species: Daphnia 0.28 mg/l - Duration h: 48
Endpoint: EL50 - Species: fanghi 480 mg/l - Duration h: 3
Endpoint: LL50 - Species: Fish 0.22 mg/l - Duration h: 96
- b) Aquatic chronic toxicity:
Endpoint: CE5 - Species: Algae 0.32 mg/l - Duration h: 72
Endpoint: EL10 - Species: Daphnia 0.07 mg/l - Duration h: 504
Cumene - CAS: 98-82-8
- a) Aquatic acute toxicity:
Endpoint: EC50 - Species: Algae 2.01 mg/l - Duration h: 72
Endpoint: EC50 - Species: Daphnia 2.14 mg/l - Duration h: 48
Endpoint: EC50 - Species: fanghi > 2000 mg/l - Duration h: 3
Endpoint: LC50 - Species: Fish 4.8 mg/l - Duration h: 96
- b) Aquatic chronic toxicity:
Endpoint: CE5 - Species: Algae 1.35 mg/l - Duration h: 72
Endpoint: NOEC - Species: Daphnia 0.35 mg/l - Duration h: 504
Endpoint: NOEC - Species: Fish 0.38 mg/l - Duration h: 672
- 12.2. Persistence and degradability
- None
- Hydrocarbons ,C10, aromatics, > 1% naphthalene
Biodegradability: 4 - Test: BIOGDG10 - Duration: 28gg - %: 58.6
- Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene
Biodegradability: 4 - Test: BIOGDG10 - Duration: 28gg - %: 58.6
- naphthalene - CAS: 91-20-3
Biodegradability: Non-readily biodegradable - Test: OECD 302C - Duration: 28gg - %: 0-2
- Mesitilene - CAS: 108-67-8
Biodegradability: Non-readily biodegradable - Duration: 28gg - %: 42
- 2-Ethylhexan-1-ol - CAS: 104-76-7
Biodegradability: Readily biodegradable - Test: BIOGDG09 - Duration: 14 days - %: 100
- 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C16-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts
Biodegradability: Readily biodegradable - Duration: 29 d - %: 77
- amides, C18-unsatd., N-[3-(dimethylamine)propyl] - CAS: 1379524-06-7
Biodegradability: Readily biodegradable - Test: BIOGDG06 - %: 91
- Cumene - CAS: 98-82-8
Biodegradability: Readily biodegradable - Duration: 20dd - %: 70
- 12.3. Bioaccumulative potential
- Hydrocarbons ,C10, aromatics, > 1% naphthalene
Bioaccumulation: Bioaccumulative - Test: log Pow 2.8-6.5
Bioaccumulation: Bioaccumulative - Test: BCF - Bioconcentration factor 99-5780
- Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene
Test: log Pow 2.8-6.5
Test: BCF - Bioconcentration factor 99-5780
- 1,2,4-trimethylbenzene - CAS: 95-63-6
Test: log Pow 3.63
Test: BCF - Bioconcentration factor 243
- naphthalene - CAS: 91-20-3
Test: log Pow 3.4
Test: BCF - Bioconcentration factor 36.5-168
- Mesitilene - CAS: 108-67-8
Test: log Pow 3.42
Test: BCF - Bioconcentration factor 161
- 2-Ethylhexan-1-ol - CAS: 104-76-7

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



Test: BCF - Bioconcentration factor 25.33

Test: log Pow 2.9

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C16-18(even numbered) and C18 unsaturated acyl) derivs., hydroxides, inner salts

Test: log Pow 0.8

amides, C18-unsatd., N-[3-(dimethylamine)propyl] - CAS: 1379524-06-7

Test: log Pow 1.842

Cumene - CAS: 98-82-8

Test: log Pow 3.55

Test: BCF - Bioconcentration factor 35.48

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. 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.

Additional disposal information:

CER 14 06 03 other solvents and solvent mixtures.

Contaminated packaging must be emptied as far as possible. After cleaning, send to an authorised centre for recycling or disposal.

"Use in accordance with good working practices, avoiding dispersal in the environment.

Do not discharge into drains, ground water or water courses. Comply with current legislation on the protection of water and soil from pollution (Legislative Decree No. 152 of 3/4/2006).

Dispose of used product and containers by handing them over to authorised companies, in accordance with the provisions of

Legislative Decree No. 152/2006 (Consolidated Environmental Act, which replaced the Ronchi Decree) as amended.

The used product is to be considered special waste to be classified in accordance with Directive No. 2008/98/EC on waste and related matters. Recover if possible. Send to authorised disposal plants or incineration under controlled conditions (152/2006 art. 184).

Act in accordance with the local and national laws in force.

Contaminated packaging must be emptied as far as possible. After cleaning, send to an authorised centre for recycling or disposal."

SECTION 14: Transport information

14.1. UN number or ID 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

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



- ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
- 14.6. Special precautions for user
N.A.
- 14.7. Maritime transport in bulk according to IMO instruments
N.A.

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) n. 2020/878
 - 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)
 - Regulation (EU) n. 2018/669 (ATP 11 CLP)
 - Regulation (EU) n. 2018/1480 (ATP 13 CLP)
 - Regulation (EU) n. 2019/521 (ATP 12 CLP)
 - Regulation (EU) n. 2020/217 (ATP 14 CLP)
 - Regulation (EU) n. 2020/1182 (ATP 15 CLP)
 - Regulation (EU) n. 2021/643 (ATP 16 CLP)
 - Regulation (EU) n. 2021/849 (ATP 17 CLP)
 - Regulation (EU) n. 2022/692 (ATP 18 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:

Restriction 40

Restriction 75

Volatile Organic compounds - VOCs = 97.04 %

Volatile Organic compounds - VOCs = 970.43 g/Kg

Volatile Organic compounds - VOCs = 792.84 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:

Distillates (petroleum), hydrotreated light

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



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.
 H315 Causes skin irritation.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.
 H226 Flammable liquid and vapour.
 H332 Harmful if inhaled.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 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.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H317 May cause an allergic skin reaction.
 H350 May cause cancer.

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 Corr. 1B	3.2/1B	Skin corrosion, Category 1B
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
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
Carc. 1B	3.6/1B	Carcinogenicity, Category 1B
Carc. 2	3.6/2	Carcinogenicity, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
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

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



Paragraphs modified from the previous revision:

SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
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.
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.

Safety Data Sheet

PULITORE INIETTORI - INJECTOR CLEANER



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.

Exposure Scenario, 30/07/2019

Substance identity

Chemical name	GASOLINE G17 BASF
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Table of contents

1. **ES 1** Consumer use; Fuels (PC13)
2. **ES 2** Widespread use by professional workers
3. **ES 3** Use at industrial site

1. ES 1 Consumer use; Fuels (PC13)		
1.1 TITLE SECTION		
Exposure Scenario name	Fuel	
Date - Version	30/07/2019 - 1.0	
Life Cycle Stage	Consumer use	
Main user group	Consumer uses	
Sector(s) of use	Consumer uses (SU21)	
Product Categories	Fuels (PC13)	
Environment Contributing Scenario		
CS1 Covered by	ERC9a - ERC9b	
Consumer Contributing Scenario		
CS2 Consumer	PC13	
1.2 Conditions of use affecting exposure		
1.2. CS1: Environment Contributing Scenario: Covered by (ERC9a, ERC9b)		
Environmental release categories	Widespread use of functional fluid (indoor) - Widespread use of functional fluid (outdoor) (ERC9a, ERC9b)	
<i>Amount used, frequency and duration of use (or from service life)</i>		
Maximum allowable site tonnage (MSafe): 90000 kg		
Release type: Continuous release		
Emission days: 365 days per year		
<i>Conditions and measures related to treatment of waste (including article waste)</i>		
Waste treatment		
Discharge to aquatic environment is restricted by law and industry prohibits release.		Waste - minimum efficiency of: 94.6 %
External recovery and recycling of waste should comply with applicable local and/or national regulations.		
<i>Other conditions affecting environmental exposure</i>		
Local marine water dilution factor: 100		
Local freshwater dilution factor: 10		
Receiving surface water flow: 2000 m ³ /day		
1.2. CS2: Consumer Contributing Scenario: Consumer (PC13)		
Product Categories	Fuels (PC13)	
1.3 Exposure estimation and reference to its source		
1.3. CS1: Environment Contributing Scenario: Covered by (ERC9a, ERC9b)		
Release route	Release rate	Release estimation method
Air	0.01 %	N/A

Water	0.001 %	N/A
soil	0.001 %	N/A

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

2. ES 2 Widespread use by professional workers

2.1 TITLE SECTION

Exposure Scenario name	Fuel
Date - Version	30/07/2019 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)

Environment Contributing Scenario

CS1 Covered by	ERC4 - ERC2
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Worker Contributing Scenario

CS2 General use from professional operators	PROC10 - PROC15
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2.2 Conditions of use affecting exposure

2.2. CS1: Environment Contributing Scenario: Covered by (ERC4, ERC2)

Environmental release categories	Use of non-reactive processing aid at industrial site (no inclusion into or onto article) - Formulation into mixture (ERC4, ERC2)
----------------------------------	---

Amount used, frequency and duration of use (or from service life)

Amounts used:

Daily amount per site 30 kg

Maximum allowable site tonnage (MSafe): 130000 kg

Release type: Continuous release

Emission days: 20 days per year

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant

Water - minimum efficiency of: = 94.6 %

STP effluent (m³/day): 2000

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

2.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC10, PROC15)

Process Categories	Roller application or brushing - Use as laboratory reagent (PROC10, PROC15)
--------------------	---

2.3 Exposure estimation and reference to its source

2.3. CS1: Environment Contributing Scenario: Covered by (ERC4, ERC2)

Release route	Release rate	Release estimation method
Air	2.5 %	N/A
Water	2 %	N/A

soil	0.01 %	N/A
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2.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

3. ES 3 Use at industrial site

3.1 TITLE SECTION

Exposure Scenario name	Fuel
Date - Version	30/07/2019 - 1.0
Life Cycle Stage	Use at industrial site
Main user group	Industrial uses
Sector(s) of use	Industrial uses (SU3)

Environment Contributing Scenario

CS1 Covered by	ERC8a
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Worker Contributing Scenario

CS2 Industrial	PROC10 - PROC15
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3.2 Conditions of use affecting exposure

3.2. CS1: Environment Contributing Scenario: Covered by (ERC8a)

Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) (ERC8a)
----------------------------------	---

Amount used, frequency and duration of use (or from service life)

Amounts used:

Daily amount per site 0.001 kg

Maximum allowable site tonnage (MSafe): 23 kg

Release type: Continuous release

Emission days: 365 days per year

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant
Water - minimum efficiency of: = 94.6 %

STP effluent (m³/day): 2000

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

Product residual disposal complies with applicable regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

3.2. CS2: Worker Contributing Scenario: Industrial (PROC10, PROC15)

Process Categories	Roller application or brushing - Use as laboratory reagent (PROC10, PROC15)
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3.3 Exposure estimation and reference to its source

3.3. CS1: Environment Contributing Scenario: Covered by (ERC8a)

Release route	Release rate	Release estimation method
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Air	50 %	N/A
Water	50 %	N/A
soil	0 %	N/A

3.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

Exposure Scenario, 18/07/2019

Substance identity	
Chemical name	Idrocarburi , C11- C14 , n-alcani , isoalcani, ciclici,< 2% aromatici.
CAS No.	64742-47-8
EINECS No.	926-141-6

Table of contents

1. **ES 1** Use at industrial site
2. **ES 2** Widespread use by professional workers
3. **ES 3** Consumer use; Fuels (PC13)

1. ES 1 Use at industrial site	
1.1 TITLE SECTION	
Exposure Scenario name	Fuel
Date - Version	18/07/2019 - 1.0
Life Cycle Stage	Use at industrial site
Main user group	Industrial uses
Sector(s) of use	Industrial uses (SU3)
Environment Contributing Scenario	
CS1 Covered by	ERC7
Worker Contributing Scenario	
CS2 Industrial	PROC1 - PROC2 - PROC3 - PROC8a - PROC8b - PROC16
1.2 Conditions of use affecting exposure	
1.2. CS1: Environment Contributing Scenario: Covered by (ERC7)	
Environmental release categories	Use of functional fluid at industrial site (ERC7)
1.2. CS2: Worker Contributing Scenario: Industrial (PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16)	
Process Categories	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - Transfer of substance or mixture (charging and discharging) at dedicated facilities - Use of fuels (PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid	
Concentration of substance in product: Covers percentage substance in the product up to 100 %.	
<i>Amount used, frequency and duration of use/exposure</i>	
Duration: Covers daily exposures up to 8 hours	
1.3 Exposure estimation and reference to its source	
N/A	
1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES	
Guidance to check compliance with the exposure scenario: Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.	

2. ES 2 Widespread use by professional workers

2.1 TITLE SECTION

Exposure Scenario name	Fuel
Date - Version	18/07/2019 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses

Environment Contributing Scenario

CS1 Solids based process	ERC9a - ERC9b
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Worker Contributing Scenario

CS2 General use from professional operators	PROC1 - PROC2 - PROC3 - PROC8a - PROC8b - PROC16
---	--

2.2 Conditions of use affecting exposure

2.2. CS1: Environment Contributing Scenario: Solids based process (ERC9a, ERC9b)

Environmental release categories	Widespread use of functional fluid (indoor) - Widespread use of functional fluid (outdoor) (ERC9a, ERC9b)
----------------------------------	---

2.2. CS2: Worker Contributing Scenario: General use from professional operators (PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16)

Process Categories	Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions - Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - Transfer of substance or mixture (charging and discharging) at dedicated facilities - Use of fuels (PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16)
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Product (article) characteristics

Concentration of substance in product:

Covers percentage substance in the product up to 100 %.

Amount used, frequency and duration of use/exposure

Duration:

Covers daily exposures up to 8 hours

2.3 Exposure estimation and reference to its source

N/A

2.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.

3. ES 3 Consumer use; Fuels (PC13)

3.1 TITLE SECTION

Exposure Scenario name	Fuel
Date - Version	18/07/2019 - 1.0
Life Cycle Stage	Consumer use
Main user group	Consumer uses
Sector(s) of use	Consumer uses (SU21)
Product Categories	Fuels (PC13)

Environment Contributing Scenario

CS1 Covered by	ERC9a - ERC9b
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Consumer Contributing Scenario

CS2 Consumer	PC13
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3.2 Conditions of use affecting exposure

3.2. CS1: Environment Contributing Scenario: Covered by (ERC9a, ERC9b)

Environmental release categories	Widespread use of functional fluid (indoor) - Widespread use of functional fluid (outdoor) (ERC9a, ERC9b)
----------------------------------	---

3.2. CS2: Consumer Contributing Scenario: Consumer (PC13)

Product Categories	Fuels (PC13)
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3.3 Exposure estimation and reference to its source

N/A

3.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.