Safety Data Sheet
Booster Benzina

Safety Data Sheet dated 31/10/2024, version 14

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

1.1. Product identifier

Mixture identification:

Trade name: Booster Benzina

Trade code: 9661

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 2, Toxic 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.

H411 Toxic 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.

P273 Avoid release to the environment.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER.
P331 Do NOT induce vomiting.
P391 Collect spillage.
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.
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, 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 >= 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
>= 80% - < 90%	Distillates (petroleum), hydrotreated light	EC: REACH No.:	926-141-6 01-2119456620-43	3.10/1 Asp. Tox. 1 H304 EUH066
>= 3% - < 5%	Hydrocarbons ,C10, aromatics, > 1% naphthalene	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
>= 2% - < 3%	Poliolefina alchilfenolo			3.2/2 Skin Irrit. 2 H315
>= 1% - < 2%	Hydrocarbons ,C10, aromatics, > 1% naphthalene	EC: REACH No.:	919-284-0 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
>= 1% - < 2%	Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene	EC: REACH No.:	926-273-4 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

>= 0,25% - < 0,5%	naphthalene	Index number: CAS: EC:	601-052-00-2 91-20-3 202-049-5	3.1/4/Oral Acute Tox. 4 H302 3.6/2 Carc. 2 H351 4.1/A1 Aquatic Acute 1 H400 M=1. 4.1/C1 Aquatic Chronic 1 H410 M=1.
>= 0,25% - < 0,5%	Distillates (petroleum), hydro- treated light; Kerosine - unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approxi mately 150 oC to 290 oC (302 oF to 554 oF).]	Index number: CAS: EC: REACH No.:	649-422-00-2 64742-47-8 265-149-8 01-2119484819-18	3.10/1 Asp. Tox. 1 H304
>= 0,25% - < 0,5%	naphthalene	CAS: EC:	91-20-3 202-049-5	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 Acute Toxicity Estimate: ATE - Oral 500 mg/kg bw
>= 0,25% - < 0,5%	1,2,4-trimethylbenzene	CAS: EC:	95-63-6 202-436-9	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: ATE - Inhalation (Vapours) 11 mg/l
>= 0,25% - < 0,5%	Distillates (petroleum), hydro- treated light; Kerosine - unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers	Index number:	649-422-00-2	3.10/1 Asp. Tox. 1 H304

	predominantly in the range of C9 through C16 and boiling in the range of approxi mately 150 oC to 290 oC (302 oF to 554 oF).]	CAS: EC: REACH No.:	64742-47-8 265-149-8 01-2119484819-18
>= 0,25% - < 0,5%	Ferrocene	CAS: EC: REACH No.:	102-54-5 203-039-3 01-2119978280-34
			2.7/1 Flam. Sol. 1 H228 3.1/4/Oral Acute Tox. 4 H302 3.1/4/Inhal Acute Tox. 4 H332 3.7/1B Repr. 1B H360FD 3.9/2 STOT RE 2 H373 (Inhalation, Oral) 4.1/C1 Aquatic Chronic 1 H410 M=10.
>= 0,1% - < 0,25%	Mesitilene	CAS: EC:	108-67-8 203-604-4
			2.6/3 Flam. Liq. 3 H226 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
>= 0,1% - < 0,25%	2-Ethylhexan-1-ol	CAS: EC: REACH No.:	104-76-7 203-234-3 01-2119487289-20
			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 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: REACH No.:	947-523-9 01-2120765005-60
			3.2/2 Skin Irrit. 2 H315 3.3/2 Eye Irrit. 2 H319 4.1/A1 Aquatic Acute 1 H400
>= 0,1% - < 0,25%	1,2,4-trimethylbenzene	Index number: CAS: EC:	601-043-00-3 95-63-6 202-436-9
			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 4.1/C2 Aquatic Chronic 2 H411
>= 0,02% - < 0,05%	amides, C18-unsatd., N-[3-(dimethylamine) propyl]	CAS: EC:	1379524-06-7 800-353-8
			3.2/1B Skin Corr. 1B H314 3.3/1 Eye Dam. 1 H318 3.4.2/1A Skin Sens. 1A H317 4.1/A1 Aquatic Acute 1 H400 4.1/C1 Aquatic Chronic 1 H410
>= 0,005% - < 0,01%	Cumene	Index number: CAS: EC:	601-024-00-X 98-82-8 202-704-5
			2.6/3 Flam. Liq. 3 H226 3.6/1B Carc. 1B H350 3.10/1 Asp. Tox. 1 H304 3.8/3 STOT SE 3 H335 4.1/C2 Aquatic Chronic 2 H411

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

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

In case of eyes contact:

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

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

None

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
Treatment:
None

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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
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
Distillates (petroleum), hydrotreated light
20101.12 - TWA: 1200 mg/m3, 165 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
Distillates (petroleum), hydro- treated light; Kerosine - unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approxi mately 150 oC to 290 oC (302 oF to 554 oF).] - CAS: 64742-47-8
TLV TWA - mg/m3 200 ,skin A3
TLV STEL - Skin A3
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
1,2,4-trimethylbenzene - CAS: 95-63-6
EU - TWA(8h): 100 mg/m3, 20 ppm
Distillates (petroleum), hydro- treated light; Kerosine - unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approxi mately 150 oC to 290 oC (302 oF to 554 oF).] - CAS: 64742-47-8
TLV TWA - mg/m3 200 ,skin A3
TLV STEL - Skin A3
Ferrocene - CAS: 102-54-5
ACGIH - TWA(8h): 10 mg/m3 - Notes: Liver dam

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
1,2,4-trimethylbenzene - CAS: 95-63-6
EU - TWA(8h): 100 mg/m3, 20 ppm
ACGIH - TWA(8h): 10 ppm - Notes: A4 - CNS impair, hematologic eff
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

Hydrocarbons ,C10, aromatics, > 1% naphthalene
Consumer: 8.13 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Professional: 3.25 mg/m3 - Consumer: 10.2 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 23.4 mg/kg - Consumer: 42.4 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
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

Hydrocarbons ,C10, aromatics, > 1% naphthalene
Target: Fresh Water - Value: 0.001 mg/l
Target: Marine water - Value: 0.001 mg/l
naphthalene - CAS: 91-20-3
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:

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.
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:	Orange	--	--
Odour:	Characteristic	--	--
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.	--	--
Kinematic viscosity:	<= 14 mm2/ 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	0.8205 g/ml	ASTM D	--

density:		4052-96	
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

Properties	**Value**	**Method:**	**Notes:**
Viscosity:	<7 cSt	07	--

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions
10.2. Chemical stability
Stable at normal ambient temperatures and when used as recommended.
10.3. Possibility of hazardous reactions
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:
OCTANE BOOSTER - BENZINA
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
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 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
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
e) germ cell mutagenicity:
Test: oecd - Species: vitro Negative
g) reproductive toxicity:
Test: OECD 415 - Route: Oral - Species: Rat Positive
naphthalene - CAS: 91-20-3
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 500 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 2500 mg/kg
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: Carcinogeneticy - Route: Inhalation - Species: Rat Positive
g) reproductive toxicity:
Test: Reproductive Toxicity - Route: Inhalation - 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
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:
Test: Eye Irritant - Route: EYE - 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
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
1,2,4-trimethylbenzene - CAS: 95-63-6
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat 5000 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit 3160 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat 18000 mg/l - Duration: 4h
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: Carcinogeneticy - 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 >= 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:
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
a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 2 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia 3 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae 1.1 mg/l - Duration h: 96
Poliolefina 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
naphthalene - CAS: 91-20-3
b) Aquatic chronic toxicity:
Endpoint: LC50 - Species: Fish 0.51 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia 3.4 mg/l - Duration h: 48
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
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
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
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
1,2,4-trimethylbenzene - CAS: 95-63-6
b) Aquatic chronic toxicity:
Endpoint: LC50 - Species: Daphnia 6.14 mg/l - Duration h: 48
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
Distillates (petroleum), hydrotreated light
Biodegradability: Readily biodegradable - Duration: 28gg - %: 69
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 - Bioconcentrantion factor 99-5780
Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene
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
1,2,4-trimethylbenzene - CAS: 95-63-6
Test: log Pow 3.63
Test: BCF - Bioconcentrantion factor 243
Mesitilene - CAS: 108-67-8
Test: log Pow 3.42
Test: BCF - Bioconcentrantion factor 161
2-Ethylhexan-1-ol - CAS: 104-76-7
Test: BCF - Bioconcentrantion 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 - Bioconcentrantion 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 >= 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:
"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

ADR-UN Number: 3082
IATA-UN Number: 3082
IMDG-UN Number: 3082

14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene, Hydrocarbons ,C10, aromatics, > 1% naphthalene)
IATA-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene, Hydrocarbons ,C10, aromatics, > 1% naphthalene)
IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Hydrocarbons, C10-C13, Aromatics, >1% Naphthalene, Hydrocarbons ,C10, aromatics, > 1% naphthalene)

14.3. Transport hazard class(es)

ADR-Class: 9
ADR - Hazard identification number: 90
IATA-Class: 9
IATA-Label: 9
IMDG-Class: 9

14.4. Packing group

ADR-Packing Group: III
IATA-Packing group: III
IMDG-Packing group: III

14.5. Environmental hazards

ADR-Enviromental Pollutant: Yes
IMDG-Marine pollutant: Marine Pollutant
IMDG-EmS: F-A,
S-F

14.6. Special precautions for user

ADR-Subsidiary hazards: -
ADR-S.P.: 274 335 375 601
ADR-Transport category (Tunnel restriction code): 3 (-)
IATA-Passenger Aircraft: 964
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 964
IATA-S.P.: A97 A158 A197
IATA-ERG: 9L
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category A
IMDG-Segregation: -

14.7. Maritime transport in bulk according to IMO instruments

N.A.
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) 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 = 95.81 %
Volatile Organic compounds - VOCs = 958.13 g/Kg
Volatile Organic compounds - VOCs = 786.15 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

Product belongs to category: E2

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

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.
H411 Toxic to aquatic life with long lasting effects.
H315 Causes skin irritation.
H302 Harmful if swallowed.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H228 Flammable solid.
H226 Flammable liquid and vapour.
H332 Harmful if inhaled.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H360FD May damage fertility. May damage the unborn child.
H373 (Inhalation, Oral) May cause damage to organs through prolonged or repeated exposure if inhaled or swallowed.

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. 1	2.7/1	Flammable solid, Category 1
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
Repr. 1B	3.7/1B	Reproductive toxicity, 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 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

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 5: Firefighting measures
SECTION 6: Accidental release measures
SECTION 7: Handling and storage
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 10: Stability and reactivity
SECTION 13: Disposal considerations

SECTION 15: Regulatory 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 2, H411	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
WGK:	German Water Hazard Class.

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

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)

Product (article) characteristics

Physical form of product:

Liquid

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

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

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)

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

Consumer Contributing Scenario

CS2 Consumer	PC13

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)

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.