Revision nr. 1 Meccanocar Italia S.r.l. Dated 14/02/2022 First compilation Printed on 14/02/2022 **FUEL POWER OPTIMIZER** Page n. 1/30

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

411 00 21500-6458 Code: Product name **FUEL POWER OPTIMIZER** UFI: N9E2-J17X-K40P-A1EC

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

Intended use Fuel optimizer for bi-fuel engines

1.3. Details of the supplier of the safety data sheet

Name Meccanocar Italia S.r.l. Full address Via San Francesco, 22 District and Country 56033 Capannoli (PI)

Italy

Tel. +39 0587 609433 Fax +39 0587 607145

e-mail address of the competent person

responsible for the Safety Data Sheet moreno.meini@meccanocar.it

Supplier:

1.4. Emergency telephone number

For urgent inquiries refer to National Poisons Information Service: +44 121 507 4123

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Carcinogenicity, category 2 H351 Suspected of causing cancer. Acute toxicity, category 4 H332 Harmful if inhaled. Eye irritation, category 2 Causes serious eye irritation. H319 Skin irritation, category 2 Causes skin irritation. H315

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

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Hazard pictograms:





Signal words: Warning

Hazard statements:

H351 Suspected of causing cancer.

H332 Harmful if inhaled.

H319 Causes serious eye irritation.
H315 Causes skin irritation.

Precautionary statements:

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

P261 Avoid breathing vapours.

P201 Obtain special instructions before use.
P264 Wash hands thoroughly after handling.

P202 Do not handle until all safety precautions have been read and understood.

P308+P313 IF exposed or concerned: Get medical advice / attention.

Contains: 2-ETILESANOLO

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration >= 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification x = Conc. % Classification (EC) 1272/2008 (CLP)

2-ETILESANOLO

CAS 104-76-7 78 ≤ x < 82 Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335

STA Inhalation vapours: 11 mg/l, STA Inhalation mists/powders: 1,5 mg/l,

STA Inhalation gas: 4500 ppm

REACH Reg. 01-2119487289-20-

XXXX

EC 203-234-3

INDEX -

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM

CAS 64742-94-5 2,5 ≤ x < 3 Asp. Tox. 1 H304, EUH066

EC 265-198-5

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INDEX 649-424-00-3

REACH Reg. 01-2119463588-24-

XXXX

1,2-BIS (2-ETHYLESYLOXY CARBONIL) POTASSIUM

ETHANSULPHONATE

CAS 7491-09-0

 $2,5 \le x < 3$

 $0.9 \le x < 1$

Eye Dam. 1 H318, Skin Irrit. 2 H315

EC 231-308-5

INDEX -

1,2,4-TRIMETHYLBENZENE

CAS 95-63-6

Flam. Liq. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315,

STOT SE 3 H335, Aquatic Chronic 2 H411

STA Inhalation vapours: 11 mg/l, STA Inhalation mists/powders: 1,5 mg/l,

STA Inhalation gas: 4500 ppm

INDEX 601-043-00-3

REACH Reg. 01-2119472135-42-

XXXX

NAPHTHALENE

EC 202-436-9

CAS 91-20-3 $0.2 \le x < 0.25$

Carc. 2 H351, Acute Tox. 4 H302, Aquatic Chronic 1 H410 M=1

EC 202-049-5 STA Oral: 500 mg/kg

INDEX 601-052-00-2

REACH Reg. 01-2119561346-37-

XXXX

CUMENE

CAS 98-82-8 $0 \le x < 0.05$

Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, Aquatic Chronic 2

H411, Classification note according to Annex VI to the CLP Regulation: C

EC 202-704-5

INDEX 601-024-00-X

MESITYLENE

CAS 108-67-8 $0 \le x < 0.05$ Flam. Liq. 3 H226, STOT SE 3 H335, Aquatic Chronic 2 H411

EC 203-604-4 STOT SE 3 H335: ≥ 25%

INDEX 601-025-00-5

REACH Reg. 01-2119463878-19-

XXXX

XYLENE (MIXTURE OF ISOMERS)

CAS 1330-20-7 0 ≤ x < 0,05 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315,

Classification note according to Annex VI to the CLP Regulation: C EC 215-535-7 STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l, STA Inhalation

mists/powders: 1,5 mg/l, STA Inhalation gas: 4500 ppm

INDEX 601-022-00-9 REACH Reg. 01-2119488216-32-

XXXX

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again. INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Send away individuals who are not suitably equipped. Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. Use breathing equipment if powders are released into the air.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water. Avoid the formation of powder and dispersion of the product in the air.

6.3. Methods and material for containment and cleaning up

Collect the leaked product and place it in containers for recovery or disposal. Make sure the leakage site is well aired. It may be advisable to wash with water any surfaces contaminated with traces of dust, without contaminating waste water.

6.4. Reference to other sections

Notify the competent authorities if the product has reached waterways or if it has contaminated the ground or vegetation.

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SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i
	-	arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes
		químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à
		exposição durante o trabalho a agentes cancerígenos ou mutagénicos
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398;
		Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive
		2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2020

2-ETILESANOLO

Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,017	mg/l	
Normal value in marine water	0,002	mg/l	
Normal value for fresh water sediment	0,284	mg/kg	
Normal value for marine water sediment	0,028	mg/kg	
Normal value of STP microorganisms	10	mg/l	
Normal value for the food chain (secondary poisoning)	55	mg/kg	
Normal value for the terrestrial compartment	0,047	mg/kg	

Health - Derived no-effec	t level - DNEL / D	MEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral				1,1 mg/kg				
				bw/d				
Inhalation	26,6 mg/m3		26,6 mg/m3	2,3 mg/m3	53,2 mg/m3		53,2 mg/m3	12,8 mg/m3

Revision nr. 1 Meccanocar Italia S.r.l. Dated 14/02/2022 First compilation Printed on 14/02/2022 **FUEL POWER OPTIMIZER** Page n. 6/30 11,4 mg/kg Skin 23 mg/kg bw/d bw/d 1,2-BIS (2-ETHYLESYLOXY CARBONIL) POTASSIUM ETHANSULPHONATE Predicted no-effect concentration - PNEC Normal value in fresh water 0.007 mg/l Normal value in marine water 0,001 mg/l 0,525 Normal value for fresh water sediment mg/kg mg/kg Normal value for marine water sediment 0,052 Normal value of STP microorganisms 122 mg/l 0.101 Normal value for the terrestrial compartment mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Route of exposure Acute local Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic systemic systemic systemic Oral 5 mg/kg bw/d Inhalation 14,8 mg/m3 98,7 mg/m3 Skin 5 mg/kg bw/d 10 mg/kg bw/d SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM Health - Derived no-effect level - DNEL / DMEL Effects on Effects on workers consumers Route of exposure Chronic local Chronic Acute Chronic local Chronic Acute systemic Acute local Acute local systemic systemic systemic Oral 19 mg/kg bw/d 1.2.4-TRIMETHYLBENZENE Threshold Limit Value Country Remarks / Туре TWA/8h STEL/15min Observations mg/m3 ppm mg/m3 ppm VLA ESP 100 20 VLEP FRA 100 20 250 50 VLEP ITA 100 20 NOR 100 20 TLV VLE PRT 100 20 OEL ΕU 100 20 TLV-ACGIH 123 25 Predicted no-effect concentration - PNEC Normal value in fresh water 0,12 mg/l Normal value in marine water 0,12 mg/l Normal value for fresh water sediment 13,56 mg/kg 13,56 Normal value for marine water sediment mg/kg 2,41 Normal value of STP microorganisms mg/l Normal value for the terrestrial compartment 2.34 mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Route of exposure Acute local Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic systemic systemic systemic

Revision nr. 1 Meccanocar Italia S.r.l. Dated 14/02/2022 First compilation Printed on 14/02/2022 **FUEL POWER OPTIMIZER** Page n. 7/30 Oral 15 mg/kg hw/d 29,4 mg/m3 29,4 mg/m3 100 mg/m3 29,4 mg/m3 100 mg/m3 100 mg/m3 100 mg/m3 Inhalation 29,4 mg/m3 Skin 9512 mg/kg 16171 mg/kg bw/d hw/d **NAPHTHALENE** Predicted no-effect concentration - PNEC Normal value in fresh water 0,24 mg/l Normal value in marine water 0,24 mg/l Normal value for fresh water sediment 6.72 mg/kg 6.72 Normal value for marine water sediment mg/kg Normal value of STP microorganisms 2.9 mg/l Normal value for the terrestrial compartment 5,33 mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Route of exposure Acute local Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic systemic systemic systemic Inhalation 25 mg/m3 25 ma/m3 3,57 mg/kg Skin bw/d **XYLENE (MIXTURE OF ISOMERS)** Threshold Limit Value Type Country TWA/8h STEL/15min Remarks / Observations mg/m3 ppm mg/m3 ppm VLA ESP 221 50 442 100 SKIN VLEP FRA 221 50 442 100 SKIN VLEP 442 ITA 221 50 100 SKIN SKIN TI V NOR 108 25 VLE PRT 221 50 442 100 SKIN WEL GBR 220 50 441 100 SKIN OEL 221 50 442 100 SKIN ΕU TLV-ACGIH 434 100 651 150 Predicted no-effect concentration - PNEC Normal value in fresh water 0.327 mg/l Normal value in marine water 0,327 mg/l 12,46 Normal value for fresh water sediment mg/kg 12,46 Normal value for marine water sediment mg/kg Normal value of STP microorganisms 6.58 mg/l Normal value for the terrestrial compartment 2.31 mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Route of exposure Acute local Acute systemic Chronic local Chronic Acute local Acute Chronic local Chronic systemic systemic systemic Oral 12,5 mg/kg bw/d Inhalation 260 mg/m3 260 mg/m3 65,3 mg/m3 65,3 mg/m3 442 mg/m3 442 mg/m3 221 mg/m3 221 mg/m3 212 mg/kg 125 mg/kg bw/d bw/d

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MESITYLENE								
Threshold Limit Value		TWA/8h		OTEL (45 :		5 1	,	
Туре	Country	TVVA/8h		STEL/15min		Remarks / Observation		
		mg/m3	ppm	mg/m3	ppm			
VLA	ESP	100	20					
VLEP	FRA	100	20	250	50			
VLEP	ITA	100	20					
TLV	NOR	100	20					
VLE	PRT	100	20					
OEL	EU	100	20					
TLV-ACGIH		123	25					
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				0,101	mg	/I		
Normal value in marine water				0,101	mg	/I		
Normal value for fresh water see	diment			7,86	mg	/kg		
Normal value for marine water s	sediment			7,86	mg	/kg		
Normal value of STP microorga	nisms			2,02	mg	/I		
Normal value for the terrestrial compartment			1,34	mg/kg				
Health - Derived no-effect	level - DNEL / D	OMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				15 mg/kg bw/d		2,0.0		-,0.00
Inhalation	29,4 mg/m3	29,4 mg/m3	29,4 mg/m3	29,4 mg/m3	100 mg/m3	100 mg/m3	100 mg/m3	100 mg/m3
Skin				9512 mg/kg bw/d				16171 mg/kg bw/d
CUMENE								
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks / Observation		
		ma/m²	nnm	ma/m2	nnm			

Legend:

VLEP

TLV

VLE

VLE

WEL

OEL

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

mg/m3

100

100

50

50

125

50

FRA

NOR

PRT

PRT

GBR

EU

ppm

20

20

10

10

25

10

mg/m3

250

250

250

250

250

250

ppm

50

50

50

50

50

50

SKIN

SKIN

INHAL

SKIN SKIN

SKIN

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired

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through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

2-ETILESANOLO

Occhiali di sicurezza ben aderenti. Oltre agli occhiali, indossare una visiera se esiste una ragionevole possibilità di schizzi sul viso.

L'apparecchiatura deve essere conforme alla norma EN 166.

Protezione mani: materiale adatto gomma nitrilica

Valutazione secondo EN 374: livello 6

Spessore del quanto circa 0,55 mm

Tempo di permeazione> 480 min

Spessore del guanto circa 0,8 mm

Protezione per la respirazione: respiratore con filtro A. Maschera completa con filtro sopra menzionato secondo i produttori che utilizzano requisiti o autorespiratore. Le apparecchiature devono essere conformi a EN 136 o EN 140 e EN 143.

1,2-BIS (2-ETHYLESYLOXY CARBONIL) POTASSIUM ETHANSULPHONATE

Engineering Controls: Make sure eyewash stations and safety showers are close to the workstation. Effective exhaust ventilation system.

Personal protective equipment

Respiratory protection: In case of vapor formation use an approved filter respirator.

Gas cartridge A (organic substances, brown).

Hand protection: Glove material: Neoprene. Nitrile rubber

Eye protection: Eye wash bottle with pure water. Tightly fitting safety glasses

Skin and body protection: Protective suit. Choose body protection based on quantity e

concentration of the dangerous substance in the workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practices.

Do not eat or drink during use. Do not smoke during use. Wash your hands before breaks and at the end of the work day.

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SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Value Information

Appearance liquid
Colour colourless

Odour characteristic, pungent

Melting point / freezing point Not available Initial boiling point Not available Flammability Not available Lower explosive limit Not available Upper explosive limit Not available 77 °C Flash point Not available Auto-ignition temperature рΗ Not available

Kinematic viscosity

Not available

Solubility

Partition coefficient: n-octanol/water

Vapour pressure

Not available

Not available

Density and/or relative density 0,837

Relative vapour density Not available
Particle characteristics Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM

May form flammable mixtures with: air.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

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2-ETILESANOLO	
Z-L I ILLOANOLO	
Stable under recommended storage conditions.	
MESITYLENE	
No decomposition if used and stored according to specifications.	
10.3. Possibility of hazardous reactions	
No hazardous reactions are foreseeable in normal conditions of use and storage.	
XYLENE (MIXTURE OF ISOMERS)	
Stable in normal conditions of use and storage.Reacts violently with: strong oxidants,strong acids,nitric acid,perchlo	orates.May form explosive mixtures
with: air.	
10.4. Conditions to avoid	
Avoid everteering	
Avoid overheating.	
2-ETILESANOLO	
Evitare il contatto con calore, scintille, fiamme libere e scariche statiche. Evitare qualsiasi fonte di ignizione.	
MESITYLENE	
MESTITLENE	
Calore, fiamme e scintille.	
10.5. Incompatible materials	
Strong reducing or oxidising agents, strong acids or alkalis, hot material.	
2-ETILESANOLO	
Agenti ossidanti.	
MECHTALENIE	
MESITYLENE	
Agenti ossidanti.	
10.6. Hazardous decomposition products	
Information not available	

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SECTION 11. Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

Interactive effects

XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: 1,90 mg/l
ATE (Inhalation - vapours) of the mixture: 13,92 mg/l
ATE (Inhalation - gas) of the mixture: 5696,2 mg/l

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

2-ETILESANOLO

LD50 (Oral): 2047 mg/kg Rat LD50 (Dermal): > 3000 mg/kg Rat

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM

LD50 (Oral): > 5000 mg/kg Rat

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LD50 (Dermal): LC50 (Inhalation vapours): > 2000 mg/kg Rabbit > 5,28 mg/l/4h Rat

1,2,4-TRIMETHYLBENZENE

STA (Inhalation gas):

STA (Inhalation mists/powders):

1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

STA (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

4500 ppm estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

NAPHTHALENE

STA (Oral):

500 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

XYLENE (MIXTURE OF ISOMERS)

STA (Dermal):

1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

STA (Inhalation mists/powders):

1,5 mg/l estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

STA (Inhalation vapours):

STA (Inhalation gas):

11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

4500 ppm estimate from table 3.1.2 of Annex I of the CLP

(figure used for calculation of the acute toxicity estimate of the mixture)

MESITYLENE

LD50 (Oral): LD50 (Dermal): 6000 mg/kg Rat > 2000 mg/kg Rat

CUMENE

LD50 (Oral): LD50 (Dermal):

LC50 (Inhalation vapours):

1400 mg/kg Rat > 3160 mg/kg Rabbit > 17,6 mg/l/6h Rat

2-ETILESANOLO

Metodo: Equivalente o similare a OECD 401

Affidabilità: 2

Specie: Ratto (Wistar; maschio) Via d'esposizione: Orale

Risultati: LD50: ca. 2047 mg/kg bw

Metodo: Equivalente o similare a OECD 403

Affidabilità: 2

Specie: Ratto (Sprague-Dawley; maschio/femmina) Via d'esposizione: Inalazione (vapore+aerosol) Risultati: LC50: > 0.89 - <= 5.3 mg/L air

Metodo: OECD 402

Affidabilità: 1

Specie: Ratto (WISW (SPF TNO); maschio/femmina)

Via d'esposizione: Cutanea Risultati: non classificato

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SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM

Method: EPA OTS 798.1175

Reliability: 1

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Oral

Results: LD50:> 5 000 mg / kg bw Method: Equivalent or similar to OECD 403

Reliability: 1 Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Inhalation (vapor) Results: LC50:> 5.28 mg / L air Method: EPA OTS 798.1100

Reliability: 1

Species: Rabbit (New Zealand White; male / female)

Route of exposure: Dermal Results: LD50:> 2 000 mg / kg bw

1,2,4-TRIMETHYLBENZENE

Method: Equivalent or similar to EU Method B.1

Reliability: 1 Species: Rat (male) Route of exposure: Oral Results: LD50: 6 000 mg / kg bw Method: Not indicated

Reliability: 2

Species: Rat (CD (COBS); male / female)

Route of exposure: Inhalation Results: LC50: 10 200 mg / m³ air

Bibliographic reference: Method: Not indicated

Reliability: 2

Species: Rat (CD (COBS); male / female)

Route of exposure: Dermal

Results: LD50: 4 other: mL / kg bw (3440 mg / kg)

NAPHTHALENE

Method: OECD 401

Reliability: 2

Species: Mouse (CD-1 ICR; male / female)

Route of exposure: Oral Results: LD50: 533 mg / kg bw

Bibliographic reference: Shopp GM, White KL, Holsapple MP, Barnes DW, et al., Naphthalene Toxicity in CD-l Mice: General Toxicology and

Immunotoxicology (1984)

Method: Equivalent or similar to OECD 403

Reliability: 1

Species: Rat (Wistar; male / female) Route of exposure: Inhalation (vapor) Results: LC50:> 0.4 mg / L air (analytical) Method: Equivalent or similar to OECD 403

Reliability: 2

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Dermal Results: LD50:> 16 000 mg / kg bw

XYLENE (MIXTURE OF ISOMERS)

Method: Equivalent or similar to EU Method B.1

Reliability: 1

Species: Rat (F344 / N; male / female)

Route of exposure: Oral

Results: LD50 = 3523 mg / kg bw

Method: Equivalent or similar to EU Method B.2

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Reliability: 2 Species: Rat (male)

Route of exposure: Inhalation (vapors)

Results: LD50 = 6700 ppm

MESITYLENE

Metodo: Equivalente o similare a EU Method B.1

Affidabilità: 1

Specie: Ratto (maschio) Via d'esposizione: Orale Risultati: LD50: 6 000 mg/kg bw

Metodo: Non indicato Affidabilità: 2

Specie: Ratto (CD (COBS); maschio/femmina)

Via d'esposizione: Inalazione Risultati: LC50: 10 200 mg/m³ air

Metodo: Non indicato

Affidabilità: 2

Specie: Ratto (CD (COBS); maschio/femmina)

Via d'esposizione: Cutanea Risultati: LD50: > 4 mL/kg bw

SKIN CORROSION / IRRITATION

Causes skin irritation

2-ETILESANOLO Metodo: OECD 404 Affidabilità: 1

Specie: Coniglio (Small Russian) Via d'esposizione: Cutanea Risultati: Altamente irritante

1,2-BIS (2-ETHYLESYLOXY CARBONIL) POTASSIUM ETHANSULPHONATE

Method: OECD Guideline 404

Reliability: 2 Species: rabbit

Route of exposure: cutaneous Results: irritant category 2

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM

Method: EPA Guidelines in FR Vol. 44, No. 145, pgs. 44054-44093

Reliability: 2

Species: Rabbit (New Zealand White)

Route of exposure: Dermal

Results: Irritating

1,2,4-TRIMETHYLBENZENE

Method: Equivalent or similar to EU Method B.4

Reliability: 2

Species: Rabbit (New Zealand White)

Route of exposure: Dermal

Results: Irritating

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Bibliographic reference: Jacobs G and Martens M, Evaluation of the test method for skin irritation as prescribed by OECD and EEC (1987)

NAPHTHALENE

Method: Consumer Product Safety Commision, USA; Code of Federal Regulation, Title 16, Section 1500.41

Reliability: 2

Species: Rabbit (New Zealand White)

Route of exposure: Dermal Results: Not irritating

MESITYLENE

Metodo: Equivalente o similare a EU Method B.4

Affidabilità: 2

Specie: Coniglio (New Zealand White) Via d'esposizione: Cutanea

Risultati: Categoria 2, irritante

Riferimento bibliografico: Jacobs G; Martens M; Evaluation of the test method for skin irritation as prescribed by oecd and eec (1987)

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

2-ETILESANOLO Metodo: OECD 405 Affidabilità: 1

Specie: Coniglio (Small Russian) Via d'esposizione: Oculare

Risultati: Categoria 2, irritante per gli occhi

1,2-BIS (2-ETHYLESYLOXY CARBONIL) POTASSIUM ETHANSULPHONATE

Method: OECD Guideline 405

Reliability: 2 Species: rabbit

Route of exposure: ocular

Results: Category 1 (irreversible effects on the eye)

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM

Method: EPA OTS 798.4500

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Ocular Results: Not irritating

1,2,4-TRIMETHYLBENZENE

Method: Equivalent or similar to OECD 405

Reliability: 2

Species: Rabbit (New Zealand White)

Route of exposure: Ocular Results: Not irritating

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NAPHTHALENE

Method: Consumer Product Safety Commision, USA; Code of Federal Regulation, Title 16, Section 1500.41

Reliability: 2

Species: Rabbit (albino rabbit) Route of exposure: Ocular Results: Not irritating

MESITYLENE

Metodo: Equivalente o similare a OECD 405

Affidabilità: 2

Specie: Coniglio (New Zealand White)

Via d'esposizione: Oculare Risultati: Non irritante

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM Method: Equivalent or similar to OECD 406-read across

Reliability: 1

Species: guinea pig (Hartley; male) Route of exposure: Dermal

Results: Not sensitizing

1,2,4-TRIMETHYLBENZENE

Method: Equivalent or similar to OECD 406

Reliability: 2

Species: guinea pig (P 'strain; male / female) Route of exposure: Dermal

Route of exposure: Derma Results: Not sensitizing

NAPHTHALENE

Method: OECD 406

Reliability: 2

Species: guinea pig (Hartley; male) Route of exposure: Dermal

Results: Not sensitizing

MESITYLENE

Metodo: OECD 406

Affidabilità: 2

Specie: Porcellino d'india (P' strain; maschio/femmina)

Via d'esposizione: Cutanea

Risultati: Negativo

Respiratory sensitization

Information not available

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Skin sensitization

1,2-BIS (2-ETHYLESYLOXY CARBONIL) POTASSIUM ETHANSULPHONATE

Method: Modified Draize-Shelanski Repeat Insult Patch Test

Reliability: 2 Human species

Route of exposure: cutaneous Results: not sensitizing

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

2-ETILESANOLO

Metodo: OECD 471-test in vitro

Affidabilità: 1

Specie: S. typhimurioum, E.coli

Risultati: Negativo con e senza attivazione metabolica Metodo: Equivalente o similare a OECD 474-test in vivo

Affidabilità: 2

Specie: Topo (B6C3F1; maschio/femmina)

Via d'esposizione: Cutanea

Risultati: Negativo

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM

Method: Equivalent or similar to OECD 479 in vitro test

Reliability: 1
Species: Chinese hamster ovary

Results: Negative

Method: Equivalent or similar to OECD 479 in vivo test

Reliability: 1

Species: Mouse (B6C3F1; male / female)

Route of exposure: Oral

Results: Positive in males, negative in females

1,2,4-TRIMETHYLBENZENE

Method: Equivalent or similar to OECD 471 in vitro test

Reliability: 2

Species: TA97a, TA98, TA100, TA102

Results: Negative with and without metabolic activation Method: Equivalent or similar to OECD 474 in vivo test

Reliability: 2

Species: Mouse (Balb / c; male / female)

Route of exposure: Oral Results: Negative

NAPHTHALENE

Method: Equivalent or similar to OECD 471 in vitro test

Reliability: 2

Species: S. typhimurium

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Results: Negative

Method: EPA OPP 84-2-test in vivo

Reliability: 1

Species: Mouse (CD-1; male / female)

Route of exposure: Oral Results: Negative

XYLENE (MIXTURE OF ISOMERS)

Method: Equivalent or similar to EU Method B.10-in vitro test

Reliability: 2 Species: Chinese hamster

Results: Negative with and without metabolic activation

Method: Equivalent or similar to OECD 478

Reliability: 2

Species: Mouse (Swiss Webster; male / female)

Route of exposure: Dermal

Results: Negative

MESITYLENE

Metodo: Equivalente o similare a OECD 471-test in vitro

Affidabilità: 2

Specie: TA97a, TA98, TA100, TA102

Risultati: Negativo con e senza attivazione metabolica Metodo: Equivalente o similare a OECD 474-test in vivo

Affidabilità: 2

Specie: Topo (Balb/c; maschio/femmina)

Via d'esposizione: Orale Risultati: Negativo

CARCINOGENICITY

Suspected of causing cancer

2-ETILESANOLO

Metodo: Equivalente o similare a OECD 451

Affidabilità: 1

Specie: Ratto (Fischer 344; maschio/femmina)

Via d'esposizione: Orale Risultati: Negativo

NAPHTHALENE Method: Not indicated

Reliability: 1

Species: Rat (Fischer 344; male / female) Route of exposure: Inhalation (vapor)

Results: Negative

XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

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MESITYLENE

Metodo: Equivalente o similare a OECD 416

Affidabilità: 1

Specie: Ratto (Charles River COBS CD; maschio/femmina)

Via d'esposizione: Inalazione (vapore)

Risultati: ca. 500 ppm

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

2-ETILESANOLO Metodo: OECD 416

Affidabilità: 2

Specie: Ratto (Sprague-Dawley; maschio/femmina)

Via d'esposizione: Orale

Risultati: Negativo. NOAEL=3000 ppm

1,2,4-TRIMETHYLBENZENE

Method: Equivalent or similar to OECD 416

Reliability: 1

Species: Rat (Charles River COBS CD; male / female)

Route of exposure: Inhalation (vapor)

Results: NOAEC = 500 ppm

NAPHTHALENE

Method: Equivalent or similar to OECD 413

Reliability: 1

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Inhalation (vapor)

Results: Negative

MESITYLENE

Metodo: Equivalente o similare a OECD 416

Affidabilità: 1

Specie: Ratto (Charles River COBS CD; maschio/femmina)

Via d'esposizione: Inalazione (vapore)

Risultati: ca. 500 ppm

Adverse effects on sexual function and fertility

XYLENE (MIXTURE OF ISOMERS)

Method: Not indicated

Reliability: 2

Species: Rat (Crl-CD® (SC) BR; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEC (fertility) = 500 ppm

Adverse effects on development of the offspring

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XYLENE (MIXTURE OF ISOMERS)
Method: Equivalent or similar to OECD 414

Reliability: 2

Species: Rat (Sprague-Dawley) Route of exposure: Inhalation (vapors) Results: Negative (development)

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

2-ETILESANOLO

Sulla base dei dati disponibili e a mezzo del giudizio di esperti, la sostanza è classificata nella classe di tossicità per organi bersagio per esposizione singola.

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

1,2,4-TRIMETHYLBENZENE

Based on the available data and through expert judgment, the substance is classified in the target organ toxicity class for single exposure.

NAPHTHALENE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

XYLENE (MIXTURE OF ISOMERS)

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for single exposure.

MESITYLENE

Sulla base dei dati disponibili e a mezzo del giudizio di esperti, la sostanza è classificata nella classe di tossicità per organi bersagio per esposizione singola.

Target organ

2-ETILESANOLO

Tratto respiratorio

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1,2,4-TRIMETHYLBENZENE

Respiratory tract

MESITYLENE Tratto respiratorio

Route of exposure

2-ETILESANOLO Inalazione

1,2,4-TRIMETHYLBENZENE

Inhalation

MESITYLENE Inalazione

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

2-ETILESANOLO

Sulla base dei dati disponibili e a mezzo del giudizio di esperti, la sostanza non è classificata nella classe di tossicità per organi bersaglio a esposizione ripetuta.

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for repeated exposure.

1,2,4-TRIMETHYLBENZENE

Method: OECD 408-Read across

Reliability: 1

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Oral

Results: NOAEL = 600 mg / kg bw / day Method: Equivalent or similar to OECD 452

Reliability: 1

Species: Rat (Wistar; male / female) Route of exposure: Inhalation (vapors) Results: NOAEC = 1800 mg / m3 air

NAPHTHALENE

Based on available data and through expert judgment, the substance is not classified in the target organ toxicity class for prolonged or repeated exposure.

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XYLENE (MIXTURE OF ISOMERS)
Method: Equivalent or similar to OECD 408

Reliability: 2

Species: Rat (Sprague-Dawley; male / female)

Route of exposure: Oral Results: Negative

MESITYLENE

Sulla base dei dati disponibili e a mezzo del giudizio di esperti, la sostanza non è classificata nella classe di tossicità per organi bersaglio per esposizione prolungata o ripetuta.

Target organ

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

12.1. Toxicity

MESITYLENE

LC50 - for Fish 12,52 mg/l/96h Carassius auratus EC50 - for Crustacea 6 mg/l/48h Daphnia magna

2-ETILESANOLO

 LC50 - for Fish
 17,1 mg/l/96h

 EC50 - for Crustacea
 39 mg/l/48h

 EC50 - for Algae / Aquatic Plants
 16,6 mg/l/72h

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EC10 for Algae / Aquatic Plants 5,3 mg/l/72h Chronic NOEC for Algae / Aquatic Plants 5,3 mg/l

NAPHTHALENE

EC50 - for Crustacea 2,16 mg/l/48h
EC10 for Algae / Aquatic Plants 16 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants 16 mg/l

1,2-BIS (2-ETHYLESYLOXY CARBONIL)

POTASSIUM ETHANSULPHONATE

LC50 - for Fish 49 mg/l/96h
EC50 - for Crustacea 6,6 mg/l/48h
EC50 - for Algae / Aquatic Plants 82,5 mg/l/72h
EC10 for Algae / Aquatic Plants 22 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants 22 mg/l

12.2. Persistence and degradability

2-ETILESANOLO

Rapidamente degradabile, 96% in 9 giorni (OECD TG 301 C)

SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM

Oil distillates, coal, plant extracts: they are blends of parafin hydrocarbons, naphthenes, diterpenes and aromatics. Their behaviour in the environment depends on their composition. In any case they should be used according to good working practice, avoiding discharging it into the environment.

NAPHTHALENE

NAPHIHALENE

Intrinsically biodegradable, 2% in 4 weeks.

XYLENE (MIXTURE OF ISOMERS)

Rapidly degradable in water, 98% in 28 days

MESITYLENE

Rapidamente degradabile, 61% in 28 giorni (Dr Noack 2016)

MESITYLENE

Solubility in water 0,1 - 100 mg/l

NOT rapidly degradable

1,2,4-TRIMETHYLBENZENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Rapidly degradable

SOLVENT NAPHTHA (PETROLEUM),

HEAVY AROM
Rapidly degradable

CUMENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

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MESITYLENE

Partition coefficient: n-octanol/water

3,42

1,2,4-TRIMETHYLBENZENE

Partition coefficient: n-octanol/water 3,65

BCF 243

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12 BCF 25,9

CUMENE

Partition coefficient: n-octanol/water 3,55 BCF 94,69

12.4. Mobility in soil

MESITYLENE

Partition coefficient: soil/water 2,87

1,2,4-TRIMETHYLBENZENE

Partition coefficient: soil/water 3,04

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

CUMENE

Partition coefficient: soil/water 2,946

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

2-ETILESANOLO

Informazioni sul prodotto: smaltimento richiesto in conformità con tutte le normative statali e locali relative alla gestione dei rifiuti. La scelta del il metodo di smaltimento appropriato dipende dalla composizione del prodotto in base al tempo di smaltimento e dal locale statuto e possibilità di smaltimento.

Rifiuti pericolosi secondo il Catalogo europeo dei rifiuti (CAE)

1.2-BIS (2-ETHYLESYLOXY CARBONIL) POTASSIUM ETHANSULPHONATE

Product: Do not dispose of waste in sewers. Do not contaminate ponds, waterways or ditches with

chemical or used container. Hazardous waste

Contaminated packaging: Empty the remaining contents. Dispose of as unused product. Do not reuse empty containers.

NAPHTHALENE

It must comply with local authorities and national legislation. Dispose of as toxic and dangerous waste (Directive 78/319 / EC).

They must not be disposed of with household waste or strong oxidizing agents. Do not allow the product to reach the sewage system.

MESITYLENE

Deve essere trattato in modo speciale nel rispetto delle normative ufficiali.

SECTION 14. Transport information

3295

14.1. UN number or ID number

ADR / RID, IMDG,

IATA:

14.2. UN proper shipping name

ADR / RID: HYDROCARBONS, LIQUID, N.O.S.
IMDG: HYDROCARBONS, LIQUID, N.O.S.
IATA: HYDROCARBONS, LIQUID, N.O.S.

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3

IMDG: Class: 3 Label: 3

IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, III

IATA:

14.5. Environmental hazards

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ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30

Limited Quantities: 5

restriction code: (D/E)

Tunnel

L

Special provision: -

EMS: F-E, S-D

Pass.:

Limited Quantities: 5

quantity: 60 L

IATA: Cargo:

Maximum Packaging quantity: 220 instructions:

366

Maximum

mum Packaging

instructions: 355

Special provision: A3, A324

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

IMDG:

SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

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Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3 Flammable liquid, category 3

Carc. 2 Carcinogenicity, category 2

Acute Tox. 4 Acute toxicity, category 4

Asp. Tox. 1 Aspiration hazard, category 1

Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

H226 Flammable liquid and vapour. H351 Suspected of causing cancer.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

LEGEND:

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- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP) 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
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- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
 The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- **FCHA** website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

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The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.