# **ENGINE CLEANER PETROL**

Revision nr. 5

Dated 19/07/2021

Printed on 19/07/2021

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Replaced revision:4 (Dated: 17/02/2020)

# Safety Data Sheet According to Annex II to REACH - Regulation 2015/830

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

#### 1.1. Product identifier

411 00 20450-6362 Code:

Product name **ENGINE CLEANER PETROL** 

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against Additive for cleaning petrol injection systems Intended use

#### 1.3. Details of the supplier of the safety data sheet

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

Product distribution by:

#### 1.4. Emergency telephone number

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

#### **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 2015/830. 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:

category 3

l	Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
l	Reproductive toxicity, category 2	H361d	Suspected of damaging the unborn child.
l	Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
l	Specific target organ toxicity - repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated
l			exposure.
l	Serious eye damage, category 1	H318	Causes serious eye damage.
l	Skin irritation, category 2	H315	Causes skin irritation.
l	Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
l	Specific target organ toxicity - single exposure, category 3	H336	May cause drowsiness or dizziness.
ı	Hazardous to the aquatic environment, chronic toxicity.	H412	Harmful to aquatic life with long lasting effects.

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#### 2.2. Label elements

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

#### Hazard pictograms:









Signal words: Danger

#### Hazard statements:

H225 Highly flammable liquid and vapour.
 H361d Suspected of damaging the unborn child.
 H304 May be fatal if swallowed and enters airways.

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

H318 Causes serious eye damage.
H315 Causes skin irritation.
H335 May cause respiratory irritation

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

**H412** Harmful to aquatic life with long lasting effects.

#### Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

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

P260 Do not breathe fume / mist / vapours.

P301+P310 IF SWALLOWED: immediately call a POISON CENTER / doctor.

Contains: TOLUENE

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

ISOBUTYL ALCOHOL ETHYL ACETATE

# 2.3. Other hazards

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

# **SECTION 3. Composition/information on ingredients**

#### 3.2. Mixtures

Contains:

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

**TOLUENE** 

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CAS 108-88-3 40 ≤ x < 42,5 Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin

Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412

EC 203-625-9

INDEX 601-021-00-3

Reg. no. 01-2119471310-51-XXXX

ISOBUTYL ALCOHOL

CAS 78-83-1 40 ≤ x < 42,5 Flam. Liq. 3 H226, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335,

STOT SE 3 H336

EC 201-148-0

INDEX 603-108-00-1

Reg. no. 01-2119484609-23-XXXX

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES,

<2% AROMATIC

CAS 64742-48-9 13,5 ≤ x < 15 Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, EUH066

EC 919-857-5

INDEX -

Reg. no. 01-2119463258-33-XXXX

**ETHYL ACETATE** 

CAS 141-78-6 6 ≤ x < 7 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 205-500-4

INDEX 607-022-00-5

Reg. no. 01-2119475103-46-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.

#### 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

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

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#### UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

#### 5.2. Special hazards arising from the substance or mixture

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. 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

Block the leakage if there is no hazard.

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. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

#### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

#### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

#### **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. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. 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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation 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. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

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310 mg/m3

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

#### 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 2019 (INSST) FRA France Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS GBR United Kingdom EH40/2005 Workplace exposure limits (Third edition, published 2018) Italia DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017 NOR Norge Fastsatt av Arbeids- og sosialdepartementet 21. august 2018 med hjemmel i lov 17. juni 2005 nr. 62 om arbeidsmiljø, arbeidstid, stillingsvern mv. (arbeidsmiljøloven) § 1-3, § 1-4 og § 4-5 PRT Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos Portugal trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018 EU OEL EU 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 91/322/EEC. TLV-ACGIH **ACGIH 2019** 

Туре	Country	TWA/8h		STEL/15min		Remarks			
		mg/m3 ppm		mg/m3 ppm		Observa	Observations		
		mg/ms	ppm	mg/ms	ppm				
VLA	ESP	154	50						
VLEP	FRA	150	50						
WEL	GBR	154	50	231	75				
TLV	NOR	75	25			SKIN			
TLV-ACGIH		152	50						
Predicted no-effect concentration	ation - PNEC								
Normal value in fresh water				0,4	mç	g/l			
Normal value in marine wate	r			0,04	mç	g/l			
Normal value for fresh water	sediment			1,56	mç	g/kg			
Normal value for marine wat	er sediment			0,156	mç	g/kg			
Normal value of STP microo	rganisms			10	mç	g/l			
Normal value for the terrestri	al compartment			0,076	mç	g/kg			
Health - Derived no-effe	ect level - DNEL /	DMEL							
	Effects on				Effects on				
	consumers				workers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic	

55 mg/m3

# **TOLUENE**

Inhalation

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Туре	Country	TWA/8h		STEL/15min		Remarks		
		mg/m3	ppm	mg/m3	ppm	Observation	ons	
VLA	ESP	192	50	384	100	SKIN		
VLEP	FRA	76,8	20	384	100	SKIN		
WEL	GBR	191	50	384	100	SKIN		
VLEP	ITA	192	50			SKIN		
TLV	NOR	94	25			SKIN		
VLE	PRT	192	50	384	100	SKIN		
OEL	EU	192	50	384	100	SKIN		
TLV-ACGIH		75,4	20					
Predicted no-effect concent	ration - PNEC							
Normal value in fresh water				0,68	mg	/I		
Normal value in marine wat	er			0,68	mg	/I		
Normal value for fresh wate	r sediment			16,39	mg	/kg		
Normal value for marine wa	ter sediment			16,39	mg	/kg		
Normal value of STP microo	_			13,61	mg	/I		
Normal value for the terrest	rial compartment			2,89	mg	/kg		
Health - Derived no-eff	Fect level - DNEL / I Effects on consumers	OMEL			Effects on workers			
	001104111010							
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
·		Acute systemic	Chronic local	systemic 8,13 mg/kg	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		Acute systemic  226 mg/m3	Chronic local 56,5 mg/m3	systemic 8,13 mg/kg bw/d 56,5 mg/m3	Acute local 384 mg/m3		Chronic local	systemic 192 mg/m3
Oral Inhalation	Acute local	•		systemic 8,13 mg/kg bw/d		systemic		
Oral Inhalation Skin	Acute local	•		systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg		systemic		systemic  192 mg/m3 384 mg/kg
Oral Inhalation Skin ETHYL ACETATE	Acute local	•		systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg		systemic		systemic  192 mg/m3 384 mg/kg
Oral Inhalation Skin  ETHYL ACETATE Threshold Limit Value	Acute local	•		systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg		systemic  384 mg/m3  Remarks	192 mg/m3	systemic  192 mg/m3 384 mg/kg
Oral Inhalation Skin  ETHYL ACETATE Threshold Limit Value	Acute local 226 mg/m3	226 mg/m3		systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg bw/d		systemic 384 mg/m3	192 mg/m3	systemic  192 mg/m3 384 mg/kg
Oral Inhalation Skin  ETHYL ACETATE Threshold Limit Value Type	Acute local 226 mg/m3	226 mg/m3  TWA/8h	56,5 mg/m3	systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg bw/d STEL/15min	384 mg/m3	systemic  384 mg/m3  Remarks	192 mg/m3	systemic  192 mg/m3 384 mg/kg
Oral Inhalation Skin  ETHYL ACETATE Threshold Limit Value Type  VLA	Acute local 226 mg/m3 Country	226 mg/m3  TWA/8h  mg/m3	56,5 mg/m3	systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg bw/d STEL/15min mg/m3	384 mg/m3	systemic  384 mg/m3  Remarks	192 mg/m3	systemic  192 mg/m3 384 mg/kg
Oral Inhalation Skin  ETHYL ACETATE Threshold Limit Value Type  VLA VLEP	Acute local  226 mg/m3  Country	226 mg/m3  TWA/8h  mg/m3  734	56,5 mg/m3  ppm 200	systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg bw/d STEL/15min mg/m3	384 mg/m3	systemic  384 mg/m3  Remarks	192 mg/m3	systemic  192 mg/m3 384 mg/kg
Oral Inhalation Skin  ETHYL ACETATE Threshold Limit Value Type  VLA VLEP WEL	Acute local  226 mg/m3  Country  ESP FRA	226 mg/m3  TWA/8h  mg/m3  734  1400	56,5 mg/m3  ppm 200 400	systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg bw/d  STEL/15min mg/m3 1468	384 mg/m3  ppm 400	systemic  384 mg/m3  Remarks	192 mg/m3	systemic  192 mg/m3 384 mg/kg
Oral Inhalation Skin  ETHYL ACETATE Threshold Limit Value Type  VLA VLEP WEL VLEP	Country  ESP FRA GBR	226 mg/m3  TWA/8h  mg/m3  734  1400  734	56,5 mg/m3  ppm 200 400 200	systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg bw/d  STEL/15min mg/m3 1468	384 mg/m3  ppm 400	systemic  384 mg/m3  Remarks	192 mg/m3	systemic  192 mg/m3 384 mg/kg
Oral Inhalation Skin  ETHYL ACETATE Threshold Limit Value Type  VLA  VLEP  WEL  VLEP  TLV	Country  ESP FRA GBR ITA	226 mg/m3  TWA/8h mg/m3 734 1400 734 734	56,5 mg/m3  ppm 200 400 200 200	systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg bw/d  STEL/15min mg/m3 1468	384 mg/m3  ppm 400	systemic  384 mg/m3  Remarks	192 mg/m3	systemic 192 mg/m3 384 mg/kg
Oral Inhalation Skin  ETHYL ACETATE Threshold Limit Value Type  VLA  VLEP  WEL  VLEP  TLV  VLE	Country  ESP FRA GBR ITA NOR	226 mg/m3  TWA/8h  mg/m3  734  1400  734  734  734	56,5 mg/m3  ppm 200 400 200 200 200	systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg bw/d  STEL/15min mg/m3 1468 1468	384 mg/m3  ppm 400 400 400	systemic  384 mg/m3  Remarks	192 mg/m3	systemic  192 mg/m3 384 mg/kg
Oral Inhalation Skin  ETHYL ACETATE Threshold Limit Value Type  VLA  VLEP  WEL  VLEP  TLV  VLE  OEL	Country  ESP FRA GBR ITA NOR PRT	226 mg/m3  TWA/8h mg/m3 734 1400 734 734 734 734	56,5 mg/m3  ppm 200 400 200 200 200 200	systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg bw/d  STEL/15min mg/m3 1468 1468	384 mg/m3  ppm 400  400  400	systemic  384 mg/m3  Remarks	192 mg/m3	systemic  192 mg/m3 384 mg/kg
Oral Inhalation Skin  ETHYL ACETATE Threshold Limit Value Type  VLA  VLEP  WEL  VLEP  TLV  VLE  OEL  TLV-ACGIH	Country  ESP FRA GBR ITA NOR PRT EU	226 mg/m3  TWA/8h  mg/m3  734  1400  734  734  734  734  734	56,5 mg/m3  ppm 200 400 200 200 200 200 200	systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg bw/d  STEL/15min mg/m3 1468 1468	384 mg/m3  ppm 400  400  400	systemic  384 mg/m3  Remarks	192 mg/m3	systemic 192 mg/m3 384 mg/kg
Oral Inhalation Skin  ETHYL ACETATE Threshold Limit Value Type  VLA  VLEP  WEL  VLEP  TLV  VLE  OEL  TLV-ACGIH  Predicted no-effect concent	Acute local  226 mg/m3  Country  ESP FRA GBR ITA NOR PRT EU  ration - PNEC	226 mg/m3  TWA/8h  mg/m3  734  1400  734  734  734  734  734	56,5 mg/m3  ppm 200 400 200 200 200 200 200	systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg bw/d  STEL/15min mg/m3 1468 1468	384 mg/m3  ppm 400  400  400	systemic  384 mg/m3  Remarks Observation	192 mg/m3	systemic 192 mg/m3 384 mg/kg
Oral Inhalation Skin  ETHYL ACETATE Threshold Limit Value Type  VLA  VLEP  WEL  VLEP  TLV  VLE  OEL  TLV-ACGIH  Predicted no-effect concent Normal value in fresh water	Country  ESP FRA GBR ITA NOR PRT EU  ration - PNEC	226 mg/m3  TWA/8h  mg/m3  734  1400  734  734  734  734  734	56,5 mg/m3  ppm 200 400 200 200 200 200 200	systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg bw/d  STEL/15min mg/m3 1468 1468 1468	384 mg/m3  ppm 400 400 400 400	systemic  384 mg/m3  Remarks of Observation  //	192 mg/m3	systemic 192 mg/m3 384 mg/kg
Oral Inhalation Skin  ETHYL ACETATE Threshold Limit Value Type  VLA  VLEP  WEL  VLEP  TLV  VLE  OEL  TLV-ACGIH  Predicted no-effect concent Normal value in fresh water	Acute local  226 mg/m3  Country  ESP FRA GBR ITA NOR PRT EU  ration - PNEC	226 mg/m3  TWA/8h  mg/m3  734  1400  734  734  734  734  734	56,5 mg/m3  ppm 200 400 200 200 200 200 200	systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg bw/d  STEL/15min mg/m3 1468 1468 1468 1468	384 mg/m3  ppm 400 400 400 400 mg	Remarks Observation	192 mg/m3	systemic 192 mg/m3 384 mg/kg
Route of exposure  Oral  Inhalation Skin  ETHYL ACETATE Threshold Limit Value Type  VLA  VLEP  WEL  VLEP  TLV  VLE  OEL  TLV-ACGIH  Predicted no-effect concent Normal value in fresh water Normal value for fresh water Normal value for fresh water	Acute local  226 mg/m3  Country  ESP FRA GBR ITA NOR PRT EU  ration - PNEC er	226 mg/m3  TWA/8h  mg/m3  734  1400  734  734  734  734  734	56,5 mg/m3  ppm 200 400 200 200 200 200 200	systemic 8,13 mg/kg bw/d 56,5 mg/m3 226 mg/kg bw/d  STEL/15min mg/m3 1468 1468 1468 1468	384 mg/m3  ppm 400  400  400  400  mg mg	Remarks / Observation  // ////////////////////////////////	192 mg/m3	systemic  192 mg/m3 384 mg/kg

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Normal value for the food chain (secondary poisoning)	0,2	mg/kg
Normal value for the terrestrial compartment	0,148	mg/kg

	•			,	J	· ·				
Health - Derived no-effect level - DNEL / DMEL										
	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				4,5 mg/kg bw/d						
Inhalation	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3		
Skin				37 mg/kg bw/d				63 mg/kg bw/d		

Legend:

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

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 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.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

#### 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.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

#### **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, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (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** 

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

ISOBUTYL ALCOHOL

Suitable safety gloves resistant to chemicals (EN 374) also with prolonged direct contact (Recommended: protection index 6, corresponding to> 480 minutes of breakthrough time according to EN 374): Eg nitrile rubber (0.4 mm), chloroprene rubber (0.5mm), butyl rubber (0.7mm) etc.

The manufacturer's instructions for use must be observed due to the wide variety of types.

Additional note: specifications are based on tests, literature data and information from glove manufacturers or derive from similar substances by analogy. Due to many conditions (eg temperature), it should be considered that the practical use of a chemical protective glove in practice can be much shorter than the breakthrough time determined through testing.

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Chemical resistant gloves are recommended. Nitrile, standards CEN EN 420 and EN 374 provide general requirements and lists of types of gloves.

ETHYL ACETATE

Butyl rubber gloves (opening times> 480 minutes), Neoprene ™ rubber, nitrile rubber (opening times up to 480 minutes).

# **SECTION 9. Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Appearance liquid

Colour colourless

Odour characteristic

Odour threshold Not available
pH Not available
Melting point / freezing point Not available

Initial boiling point Not available

Boiling range Not available

Flash point 6 °C

Evaporation rate Not available Flammability (solid, gas) Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Vapour pressure Not available Vapour density Not available Relative density 0.825

Solubility insoluble in water

Partition coefficient: n-octanol/water Not available

Auto-ignition temperature 425 °C

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Decomposition temperature Not available
Viscosity Not available
Explosive properties Not available
Oxidising properties Not available

#### 9.2. Other information

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.

TOLUENE

Avoid exposure to: light.

ETHYL ACETATE

It slowly decomposes to acetic acid and ethanol due to the action of light, air and water. Stable under normal conditions. Upon storage, it is slowly decomposed by water.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

ISOBUTYL ALCOHOL

Reacts with strong oxidizing agents

#### TOLUENE

Risk of explosion on contact with: fuming sulphuric acid, nitric acid, silver perchlorate, nitrogen dioxide, non-metal halogenates, acetic acid, organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

#### ETHYL ACETATE

Risk of explosion on contact with: alkaline metals,hydrides,oleum.May react violently with: fluorine,strong oxidising agents,chlorosulphuric acid,potassium tert-butoxide.Forms explosive mixtures with: air.

# 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

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Avoid heat, sparks, open flames and other sources of ignition.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

Ignition sources.

#### 10.5. Incompatible materials

ISOBUTYL ALCOHOL

Strong oxidizing agents

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Strong oxidants

ETHYL ACETATE

Incompatible with: acids,bases,strong oxidants,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

Oxidizing agents, acids, alkalis.

#### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

ETHYL ACETATE

Carbon oxides on combustion.

# **SECTION 11. Toxicological information**

# 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

TOLUENE

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WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

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

#### TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

#### Interactive effects

#### TOLUENE

Certain drugs and other industrial products can interfere with the metabolism of the toluene.

#### **ACUTE TOXICITY**

LC50 (Inhalation) of the mixture:

Not classified (no significant component)

LD50 (Oral) of the mixture:

Not classified (no significant component)

LD50 (Dermal) of the mixture:

Not classified (no significant component)

#### TOLUENE

LD50 (Oral) 5580 mg/kg Rat

LD50 (Dermal) 12124 mg/kg Rabbit

LC50 (Inhalation) 28,1 mg/l/4h Rat

#### ISOBUTYL ALCOHOL

Method: OECD 401

Reliability: 1

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

Route of exposure: Oral

Results: LD50> 2830 mg / kg bw

Method: OECD 402

Reliability: 1

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

Route of exposure: Inhalation

Results: LD50> 2000 mg / kg bw

Method: OECD 402

Reliability: 1

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

Route of exposure: Dermal Results: LD50> 2000 mg / kg bw

#### TOLUENE

Method: Equivalent or similar to EU Method B.1

Reliability: 2

Species: Rat (Sprague-Dawley Cobb; male)

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Route of exposure: Oral

Results: LD50 = 5580 mg / kg bw

Method: Equivalent or similar to OECD 403

Reliability: 2

Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (vapors) Results: LC50 = 25.7 mg / L air

Method: Not indicated Reliability: 2 Species: Rabbit

Route of exposure: Dermal Results: LD50> 5000 mg / kg bw

Bibliographic reference: Range-finding toxicity data: List VII, Smyth HF, Carpenter CP, Weil CS, Pozzani UC, Streigel JA and Nycum JS (1969

#### HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD 423

Reliability: 2 Species: Rat (Wistar; male / female)

Route of exposure: Oral

Results: LD50> 15 000 mg / kg bw

Method: Equivalent or similar to OECD 403

Reliability: 1

Species: Rat (Crj: CD (SD); male / female) Route of exposure: Inhalation (vapors) Results: LC50> 4 951 mg / m³ air Method: Equivalent or similar to OECD 402

Reliability: 2

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

Route of exposure: Dermal Results: LD50> 5 000 mg / kg bw

# ETHYL ACETATE

Method: Multi-Substance Rule for the Testing of Neurotoxicity 40 CFR Part 799 (58 FR 40262)

Reliability: 1

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

Route of exposure: Inhalation (vapors)

Results: Negative Method: Not indicated Reliability: 2

Species: Rabbit (New Zealand White; male)

Route of exposure: Dermal Results: LD50> 20 000 mg / kg bw

#### SKIN CORROSION / IRRITATION

Causes skin irritation

#### TOLUENE

Method: EU Method B.4

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Dermal

Results: Irritating

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: Equivalent or similar to OECD 404

Reliability: 1

Species: Rabbit (New Zealand White)

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Route of exposure: Dermal

Results: Irritating

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

ISOBUTYL ALCOHOL

Method: OECD 405

Reliability: 1 Species: Rabbit (New Zealand White)

Route of exposure: Ocular

Results: Corrosive

#### TOLUENE

Method: OECD 405

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Ocular Results: Slightly irritating

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD 405

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Ocular Results: Not irritating

#### ETHYL ACETATE

Method: OECD 405

Reliability: 2

Species: Rabbit (New Zealand White)

Route of exposure: Ocular Results: Not irritating

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

#### ISOBUTYL ALCOHOL

Method: QSAR Reliability: 1

Species: Not indicated Route of exposure: Dermal Results: Not classified

# TOLUENE

Method: EU Method B.6

Reliability: 1

Species: guinea pig (Himalayan Albino; female)

Route of exposure: Dermal Results: Not sensitizing

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Skin sensitization

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD 406

Reliability: 2

Species: guinea pig (Hartley; female)

Route of exposure: Dermal Results: Not sensitizing

ETHYL ACETATE

Method: OECD 406

Reliability: 1

Species: guinea pig (Dunkin-Hartley; female)

Route of exposure: Dermal Results: Not sensitizing

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### ISOBUTYL ALCOHOL

Method: Not indicated - in vitro test

Reliability: 2

Species: Chinese hamster

Results: Negative with and without metabolic activation

Bibliographic reference: Evaluation of the genotoxic potential of some microbial volatile organic compounds (MVOC) with the comet assay, the

micronucleus assay and the HPRT gene mutation assay, Kreja L, Seidel H-J (2002)

Method: OECD 474-test in vivo

Reliability: 1

Species: Mouse (NMRI; male / female)

Route of exposure: Oral Results: Negative

#### TOLUENE

Method: Equivalent or similar to EU Method B.13 / 14-in vitro test

Reliability: 2

Species: S. typhimurium

Results: Negative with and without metabolic activation

Method: Not indicated - in vivo test

Reliability: 2 Species: Rat

Route of exposure: Intraperitoneal

Results: Negative

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD 471 in vitro test

Reliability: 1

Species: S. typhimurium

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

Reliability: 1

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

Route of exposure: Oral Results: Negative

ETHYL ACETATE

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Method: Equivalent or similar to OECD 471 in vitro test

Reliability: 2 Species: S. typhimurium

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

Reliability: 2

Species: Chinese hamster (male / female)

Route of exposure: Oral Results: Negative

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### TOLUENE

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: Equivalent or similar to OECD 453

Reliability: 1

Species: Rat (F344 / N; male / female) Route of exposure: Inhalation (vapors) Results: NOAEC 138 mg/m³ air

#### REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

#### ETHYL ACETATE

Method: Equivalent or similar to OECD 416

Reliability: 1

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

Route of exposure: Oral Results: Negative

Method: Equivalent or similar to OECD 414

Reliability: 2

Species: Rat (Sprague-Dawley) Route of exposure: Inhalation

Results: Negative

Adverse effects on sexual function and fertility

ISOBUTYL ALCOHOL

Method: EPA OPPTS 870.3800

Reliability: 1

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

Route of exposure: Inhalation (vapors)

Results: Negative, NOAEL (fertility)> = 7.5 mg / L air

#### TOLUENE

Method: Not indicated

Reliability: 2

Species: Rat (Sprague\_Dawley; male / female)

Route of exposure: Inhalation (vapors)

Results: Negative, NOAEC (fertility) = 600 ppm

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Bibliographic reference: Reproductive and developmental toxicity studies of toluene II. Effects of inhalation exposure on fertility in rats, Ono A, Sekita K, Ogawa Y, Hirose A, Suzuki S, Saito M, Naito K, Kaneko T, Furuya T, Kawashima K, Yasuhara K, Matsumoto K, Tanaka S, Inoue T and Kurokawa Y (1996)

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: OECD TG 413

Reliability: 1

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

Results: NOAEC> = 400 ppm

Adverse effects on development of the offspring

ISOBUTYL ALCOHOL

Method: OECD 414 Reliability: 1 Species: Rat (Wistar)

Route of exposure: Inhalation (vapors)

Results: Negative, NOAEL (development) = 10 mg / L air

#### TOLUENE

Method: Not indicated Reliability: 2 Species: Rat (Wistar)

Route of exposure: Inhalation (vapors)

Results: Negative, NOAEC (development) = 600 ppm

Bibliographic reference: Postnatal development and behavior of Wistar rats after prenatal toluene exposure, Thiel R and Chahoud I (1997)

# STOT - SINGLE EXPOSURE

May cause respiratory irritation
May cause drowsiness or dizziness

ISOBUTYL ALCOHOL

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

TOLUENE

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

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

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

ETHYL ACETATE

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

Target organ
ISOBUTYL ALCOHOL

Respiratory tract

TOLUENE

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Central nervous system

ETHYL ACETATE

Central nervous system

Route of exposure

TOLUENE

Inhalation

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Dermal and inhalation

ETHYL ACETATE

Inhalation

#### STOT - REPEATED EXPOSURE

May cause damage to organs

ISOBUTYL ALCOHOL

Method: OECD 408

Reliability: 1

Species: Rat (Wistar; male / female)

Route of exposure: Oral

Results: Negative, NOAEL> 1450 mg / kg bw / day

Method: EPA OPPTS 870.3800

Reliability: 1

Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEL = 7.5 mg / L air

#### TOLUENE

Method: Equivalent or similar to EU Method B.26

Reliability: 1

Species: Rat (Fischer 344; male / female)

Route of exposure: Oral

Results: NOAEL = 625 mg / kg bw / day

Method: EU Method B.29

Reliability: 1

Species: Rat (F344 / N; male / female) Route of exposure: Inhalation (vapors)

Results: NOAEC = 625 ppm

HYDROCARBONS, C9-C11, N-ALCANS, ISOALKANS, CYCLES, <2% AROMATIC

Method: Equivalent or similar to OECD 422

Reliability: 1

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

Route of exposure: Oral

Results: NOAEL> = 1000 mg / kg / day Method: Equivalent or similar to OECD 413

Reliability: 1

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Species: Rat (Albino; male / female) Route of exposure: Inhalation (vapors) Results: NOAEC 10186 mg / m3

#### ETHYL ACETATE

Method: Equivalent or similar to EPA OTS 795.2600

Reliability: 2

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

Route of exposure: Oral

Results: NOAEL 900 mg / kg bw / day

Method: EPA OTS 798.2450

Reliability: 1

Species: Rat (Crl: CD®BR; male / female)

Route of exposure: Inhalation Results: LOEC 350 ppm

Target organ TOLUENE

Neurological

Route of exposure TOLUENE

Inhalation

#### **ASPIRATION HAZARD**

Toxic for aspiration

# **SECTION 12. Ecological information**

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment. **12.1. Toxicity** 

**TOLUENE** 

LC50 - for Fish 5,5 mg/l/96h
EC50 - for Crustacea 3,78 mg/l/48h
EC50 - for Algae / Aquatic Plants 134 mg/l/72h
EC10 for Algae / Aquatic Plants 10 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants 10 mg/l

#### 12.2. Persistence and degradability

ISOBUTYL ALCOHOL
Easily degradable in water, 70-80% in 28 days.
TOLUENE
Easily degradable in water.
ETHYL ACETATE
Rapidly degradable, 60% in 10 days.

ETHYL ACETATE

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Solubility in water > 10000 mg/l

Rapidly degradable

**TOLUENE** 

Solubility in water 100 - 1000 mg/l

Rapidly degradable

ISOBUTYL ALCOHOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

**ETHYL ACETATE** 

Partition coefficient: n-octanol/water 0,68 BCF 30

**TOLUENE** 

Partition coefficient: n-octanol/water 2,73 BCF 90

ISOBUTYL ALCOHOL

Partition coefficient: n-octanol/water

12.4. Mobility in soil

ISOBUTYL ALCOHOL

Partition coefficient: soil/water 0,31

#### 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 greater than 0,1%.

#### 12.6. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

# 13.1. Waste treatment methods

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.

#### ISOBUTYL ALCOHOL

They must be disposed of or incinerated in accordance with local regulations.

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#### ETHYL ACETATE

Dispose of as hazardous waste. Recover or recycle if possible. Otherwise incineration. Dispose according to local regulations.

Disposal of the container: empty the container completely. Empty containers may contain highly flammable residues. Do not cut, grind, puncture, weld or dispose of containers unless adequate precautions have been taken against this hazard. Do not remove the container labels until they are cleaned. Send to drum recovery or metal recovery.

# **SECTION 14. Transport information**

#### 14.1. UN number

ADR / RID, IMDG,

1993

IATA:

#### 14.2. UN proper shipping name

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

IATA:

#### 14.5. Environmental hazards

ADR / RID:

NO

Ш

IMDG:

NO NO

#### 14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 30

Limited Quantities: 5 Tunnel restriction code: (D/E)

Special Provision: -

IMDG:

EMS: F-E, <u>S-E</u>

Limited Quantities: 5

IATA: Cargo:

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Maximum quantity: 220

Packaging instructions:

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Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the

None

Healthcare controls

workers' health and safety are modest and that the 98/24/EC directive is respected.

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#### 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. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Repr. 2 Reproductive toxicity, category 2
Asp. Tox. 1 Aspiration hazard, category 1

STOT RE 2 Specific target organ toxicity - repeated exposure, category 2

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 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H225 Highly flammable liquid and vapour.H226 Flammable liquid and vapour.

H361d Suspected of damaging the unborn child.H304 May be fatal if swallowed and enters airways.

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

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

H315 Causes skin irritation.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

**EUH066** Repeated exposure may cause skin dryness or cracking.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: 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: EC Regulation 1907/2006

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- 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 STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 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) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII 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
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

#### Note for users:

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.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 09 / 11 / 15.