PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 1/37

Replaced revision:1 (Dated: 14/06/2018)

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 20490-6366 Code:

Product name PETROL INJECTOR TREATMENT

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

Injector cleaning treatment 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

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 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:

nazara diaddination and indidation.		
Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Reproductive toxicity, category 2	H361d	Suspected of damaging the unborn child.
Specific target organ toxicity - repeated exposure	category 2 H373	May cause damage to organs through prolong

May cause damage to organs through prolonged or repeated Specific target organ toxicity - repeated exposure, category 2 H373

exposure.

H319 Eye irritation, category 2 Causes serious eye irritation. Skin irritation, category 2 H315 Causes skin irritation.

Specific target organ toxicity - single exposure, category 3 H336 May cause drowsiness or dizziness. Hazardous to the aquatic environment, chronic toxicity, Toxic to aquatic life with long lasting effects. H411

category 2

2.2. Label elements

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 2/37

Replaced revision:1 (Dated: 14/06/2018)

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.

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

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic 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.

P201 Obtain special instructions before use.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P202 Do not handle until all safety precautions have been read and understood.

P233 Keep container tightly closed.

P370+P378 In case of fire: use CO2 fire extinguisher to extinguish.

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)

HYDROCARBONS, C6-7, FROM NAFTA CRACKING, REFINED WITH

SOLVENTS

CAS 92045-64-2 $40 \le x < 42,5$ Flam. Liq. 2 H225, Carc. 1A H350, Muta. 1A H340, Repr. 2 H361, Asp. Tox. 1

H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411

EC 295-446-8

INDEX

Reg. no. 01-2119486793-22-XXXX

TOLUENE

CAS 108-88-3 20 ≤ x < 21,5 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

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 3/37

Replaced revision:1 (Dated: 14/06/2018)

INDEX 601-021-00-3

Reg. no. 01-2119471310-51-XXXX

ETHANOL

CAS 64-17-5 $12 \le x < 13.5$ Flam. Liq. 2 H225, Eye Irrit. 2 H319

EC 200-578-6

INDEX 603-002-00-5

Reg. no. 01-2119457610-43-XXXX

2-BUTOXYETHANOL

CAS 111-76-2 $7 \le x < 8$ Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC 203-905-0

INDEX 603-014-00-0

Reg. no. 01-2119475108-36-XXXX

ACETONE

CAS 67-64-1 7 ≤ x < 8 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 200-662-2

INDEX 606-001-00-8

Reg. no. 01-2119471330-49-XXXX **XYLENE (MIXTURE OF ISOMERS)**

CAS 1330-20-7 $7 \le x < 8$ 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

INDEX 601-022-00-9

Reg. no. 01-2119488216-32-XXXX

ETHYLBENZENE

CAS 100-41-4 $3 \le x < 3,5$ Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373,

Aquatic Chronic 3 H412

EC 202-849-4

INDEX 601-023-00-4

Reg. no. 01-2119489370-35-XXXX

BENZYL ALCOHOL

CAS 100-51-6 Acute Tox. 4 H302, Acute Tox. 4 H332 $3 \le x < 3.5$

EC 202-859-9

INDEX 603-057-00-5

Reg. no. 01-2119492630-38-XXXX

1,2,4-TRIMETHYLBENZENE

CAS 95-63-6 Flam. Lig. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, Skin Irrit. 2 H315, $0 \le x < 0.05$

STOT SE 3 H335, Aquatic Chronic 2 H411

EC 202-436-9

INDEX 601-043-00-3

Reg. no. 01-2119472135-42-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,

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 4/37

Replaced revision:1 (Dated: 14/06/2018)

seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention 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.

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.

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 5/37

Replaced revision:1 (Dated: 14/06/2018)

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.

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)
ITA	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	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos
		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

HYDROCARBONS, C6-7, FROM NAFTA CRACKING, REFINED WITH SOLVENTS

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	640 mg/m3	1200 mg/m3	180 mg/m3		1100 mg/m3	1300 mg/m3	840 mg/m3	

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 6/37

Replaced revision:1 (Dated: 14/06/2018)

Туре	Country	TWA/8h		STEL/15min		Remarks		
		mg/m3	ppm	mg/m3	ppm	Observati	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 concentration	n - PNEC							
Normal value in fresh water				0,68	mg/	/I		
Normal value in marine water				0,68	mg/	/I		
Normal value for fresh water sec	diment			16,39	mg/	/kg		
Normal value for marine water s	ediment			16,39	mg/	/kg		
Normal value of STP microorgar	nisms			13,61	61 mg/l			
Normal value for the terrestrial c	compartment			2,89	mg/	/kg		
Health - Derived no-effect	level - DNEL / Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute	Chronic local	Chronic systemic
Oral				8,13 mg/kg		systemic		Systemic
Inhalation	226 mg/m3	226 mg/m3	56,5 mg/m3	bw/d 56,5 mg/m3	384 mg/m3	384 mg/m3	192 mg/m3	192 mg/m3
Skin	-	-	-	226 mg/kg bw/d	-	-	-	384 mg/kg bw/d
ETHANOL								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks	1	
туре	Country					Observati		
		mg/m3	ppm	mg/m3	ppm			
VLA	ESP			1910	1000			
		1000	1000					
VLEP	FRA	1900	1000	9500	5000			
VLEP WEL	GBR	1920	1000	9500	5000			
VLEP WEL TLV								
VLEP WEL TLV TLV-ACGIH	GBR NOR	1920	1000	9500	1000			
VLEP WEL TLV TLV-ACGIH Predicted no-effect concentration	GBR NOR	1920	1000	1884	1000			
VLEP WEL TLV TLV-ACGIH Predicted no-effect concentration Normal value in fresh water	GBR NOR	1920	1000	1884	1000			
WLEP WEL TLV TLV-ACGIH Predicted no-effect concentration Normal value in fresh water Normal value in marine water	GBR NOR n - PNEC	1920	1000	1884 0,96 0,79	1000 mg/ mg/	/1		
WLEP WEL TLV TLV-ACGIH Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water sec	GBR NOR n - PNEC	1920	1000	0,96 0,79 3,6	1000 mg, mg,	/l /kg		
WEL TLV TLV-ACGIH Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water sec	GBR NOR n - PNEC diment	1920	1000	0,96 0,79 3,6 2,9	1000 mg/ mg/	/l /kg		
VLEP WEL TLV TLV-ACGIH Predicted no-effect concentration Normal value in fresh water Normal value in marine water Normal value for fresh water seconomic value for marine water seconomic value of STP microorgan	GBR NOR n - PNEC diment	1920	1000	0,96 0,79 3,6	1000 mg, mg,	/l /kg /kg		

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 7/37

Replaced revision:1 (Dated: 14/06/2018)

	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				87 mg/kg bw/d		oyotornio -		Gyotornio
Inhalation				114 mg/m3				950 mg/m3
Skin				206 mg/kg bw/d				343 mg/kg bw/d
XYLENE (MIXTURE OF ISC Threshold Limit Value	MERS)							
Type	Country	TWA/8h		STEL/15min		Remarks Observati		
		mg/m3	ppm	mg/m3	ppm	Obcorvat	10110	
VLA	ESP	221	50	442	100	SKIN		
VLEP	FRA	221	50	442	100	SKIN		
WEL	GBR	220	50	441	100	SKIN		
VLEP	ITA	221	50	442	100	SKIN		
TLV	NOR	108	25			SKIN		
VLE	PRT	221	50	442	100	SKIN		
OEL	EU	221	50	442	100	SKIN		
TLV-ACGIH		434	100	651	150			
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				0,327	mg	ı/l		
Normal value in marine water				0,327	mg	ı/I		
Normal value for fresh water sed	liment			12,46	mg	ı/kg		
Normal value for marine water se	ediment			12,46	mg	ı/kg		
Normal value of STP microorgan	nisms			6,58	mg	ı/l		
Normal value for the terrestrial co	ompartment			2,31	mg	ı/kg		
Health - Derived no-effect	Effects on consumers	OMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				12,5 mg/kg bw/d		oyotoniio		Gyotornio
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
Skin				125 mg/kg bw/d				212 mg/kg bw/d
ACETONE Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm			
VLEP	FRA	1210	500	2420	1000			
WEL	GBR	1210	500	3620	1500			
VLEP	ITA	1210	500					
TLV	NOR	295	125					
VLE	PRT	1210	500					
OEL	EU	1210	500					
TLV-ACGIH			250		500			

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 8/37

Replaced revision:1 (Dated: 14/06/2018)

Normal value in fresh water				10,6	mç	g/l		
Normal value in marine water				1,06	mç	-		
Normal value for fresh water s	sediment			30,4		g/kg		
Normal value for marine wate	r sediment			3,04		g/kg		
Normal value of STP microorg	ganisms			100	mç	g/l		
Normal value for the terrestria	al compartment			29,5	mç	g/kg		
Health - Derived no-effec	Effects on	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 62 mg/kg		systemic		systemic
Inhalation				bw/d 200 mg/m3			2420 mg/m3	1210 mg/m3
Skin				62 mg/kg bw/d				186 mg/kg bw/d
2-BUTOXYETHANOL Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm	0200114		
VLA	ESP	98	20	245	50	SKIN		
VLEP	FRA	49	10	246	50	SKIN		
WEL	GBR	123	25	246	50	SKIN		
VLEP	ITA	98	20	246	50	SKIN		
TLV	NOR	50	10			SKIN		
VLE	PRT	98	20	246	50	SKIN		
OEL	EU	98	20	246	50	SKIN		
TLV-ACGIH		97	20					
Predicted no-effect concentra	tion - PNEC							
Normal value in fresh water				8,8	mç	g/l		
Normal value in marine water				0,88	mç	g/l		
Normal value for fresh water s	sediment			34,6	mį	g/kg		
Normal value for marine wate	r sediment			3,46	mį	g/kg		
Normal value of STP microorg	ganisms			463	mg	g/l		
Normal value for the food cha	in (secondary poisor	ning)		0,02	mç	g/kg		
Normal value for the terrestria	al compartment			2,33	mç	g/kg		
Health - Derived no-effect	ct level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		26,7 mg/kg bw/d		6,3 mg/kg bw/d		,		
Inhalation	147 mg/m3	426 mg/m3		59 mg/m3	246 mg/m3			98 mg/m3
Skin		89 mg/kg/d		75 mg/kg bw/d		89 mg/kg bw/d		125 mg/kg bw/d

Revision nr. 2 Meccanocar Italia S.r.l. Dated 10/03/2020 Printed on 10/03/2020 PETROL INJECTOR TREATMENT Page n. 9/37 Replaced revision:1 (Dated: 14/06/2018) Normal value in fresh water 1 mg/l 0.1 Normal value in marine water mg/l Normal value for fresh water sediment 5,27 mg/kg Normal value for marine water sediment 0,527 mg/kg Normal value of STP microorganisms 39 ma/l Normal value for the terrestrial compartment 0.456 mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Route of exposure Chronic local Chronic local Chronic Acute local Acute systemic Chronic Acute local Acute systemic systemic systemic Oral 20 mg/kg bw/d 4 mg/kg bw/d Inhalation 27 mg/m3 5,4 mg/m3 110 mg/m3 22 mg/m3 20 mg/kg bw/d 4 mg/kg bw/d 40 mg/kg 8 mg/kg bw/d bw/d **ETHYLBENZENE Threshold Limit Value** Country TWA/8h STEL/15min Remarks / Type Observations mg/m3 mg/m3 ppm ppm 884 VLA **FSP** 441 100 200 SKIN VLEP FRA 88,4 20 442 100 SKIN WEL GBR 441 100 552 125 SKIN VLEP ITA 442 100 884 200 SKIN TLV NOR 20 5 SKIN VIF PRT 442 SKIN 100 884 200 200 SKIN OEL EU 442 100 884 TLV-ACGIH 87 20 Predicted no-effect concentration - PNEC 0.1 Normal value in fresh water mg/l 0,01 Normal value in marine water mg/l Normal value for fresh water sediment 13,7 mg/kg Normal value for marine water sediment 1,37 mg/kg Normal value of STP microorganisms 9,6 mg/l Normal value for the food chain (secondary poisoning) 0,02 mg/kg 2.68 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 1,6 mg/kg bw/d Inhalation 15 mg/m3 293 mg/m3 77 mg/m3 Skin 180 mg/kg bw/d 1,2,4-TRIMETHYLBENZENE **Threshold Limit Value** Country TWA/8h STEL/15min Remarks / Type Observations

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 10/37

Replaced revision:1 (Dated: 14/06/2018)

bw/d

		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 concentr	ration - PNEC							
Normal value in fresh water				0,12	mg	g/l		
Normal value in marine water	er			0,12	mg	g/l		
Normal value for fresh water	sediment			13,56	mg	g/kg		
Normal value for marine wat	er sediment			13,56	mg/kg			
Normal value of STP microc	rganisms			2,41	mg	g/l		
Normal value for the terrestr	ial compartment			2,34	mg	g/kg		
Health - Derived no-eff	ect level - DNEL / D Effects on consumers	DMEL			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		•		•
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				16171 mg/kg

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.

bw/d

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.

The product must be used inside a closed circuit, in a well-ventilated environment and with strong localised aspiration systems in place.

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

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 11/37

Replaced revision:1 (Dated: 14/06/2018)

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.

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.

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

ACETONE

Protective gloves according to EN 374.

Glove material: Butyl rubber (butyl rubber) - Layer thickness> = 0.5 mm.

Breakthrough time:> 480 min.

Observe the glove manufacturer's instructions regarding penetrability and breakthrough time.

BENZYL ALCOHOL

Waterproof chemical resistant gloves that conform to an approved standard must always be worn when handling chemicals products if a risk assessment indicates that this is necessary. After contamination with the product, change gloves immediately dispose of them according to the relevant national and local regulations Recommended: (<1 hour) Butyl rubber - IIR, Fluorinated rubber - FKM, Polyvinyl chloride - PVC.

ETHYLBENZENE

- Use chemical resistant gloves suitable for the conditions of use.
- The selected protective gloves must meet the European standard EN 374.
- Fluoroelastomer glove material; material thickness 0.4 mm; breakthrough time ≥ 480 min. Gloves must be replaced after 8 hours of wear (GESTIS recommendation).
- Gloves must be discarded and replaced if there are indications of degradation or chemicals breakthrough.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquid
Colour colourless

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 12/37

Replaced revision:1 (Dated: 14/06/2018)

Odour characteristic
Odour threshold Not available
pH Not available
Melting point / freezing point Not available
Initial boiling point < 100 °C
Boiling range Not available
Flash point -18 °C

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

Relative density 0,788

Solubility immiscible with water

Partition coefficient: n-octanol/water Not available
Auto-ignition temperature Not available
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.

ACETONE

Decomposes under the effect of heat.

Acetone reacts in the presence of bases. The vapor forms potentially explosive mixtures with the air. Heavier than air, they proceed at floor level and can flash at a great distance when turned on. It can electrostatically charge.

2-BUTOXYETHANOL

Decomposes under the effect of heat.

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 13/37

Replaced revision:1 (Dated: 14/06/2018)

BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

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.

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.

ETHANOL

Risk of explosion on contact with: alkaline metals, alkaline oxides, calcium hypochlorite, sulphur monofluoride, acetic anhydride, acids, concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver, silver nitrate, ammonia, silver oxide, ammonia, strong oxidising agents, nitrogen dioxide. May react dangerously with: bromoacetylene, chlorine acetylene, bromine trifluoride, chromium trioxide, chromyl chloride, fluorine, potassium tert-butoxide, lithium hydride, phosphorus trioxide, black platinum, zirconium (IV) chloride, zirconium (IV) iodide. Forms explosive mixtures with: air.

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage. Reacts violently with: strong oxidants, strong acids, nitric acid, perchlorates. May form explosive mixtures with: air.

ACETONE

Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3 butadiene,nitromethane,nitrosyl perchlorate. May react dangerously with: potassium tert-butoxide,alkaline hydroxides,bromine,bromoform,isoprene,sodium,sulphur dioxide,chromium trioxide,chromyl chloride,nitric acid,chloroform,peroxymonosulphuric acid,phosphoryl oxychloride,chromosulphuric acid,fluorine,strong oxidising agents, strong reducing agents. Develops flammable gas on contact with: nitrosyl perchlorate.

2-BUTOXYETHANOL

May react dangerously with: aluminium, oxidising agents. Forms peroxides with: air.

BENZYL ALCOHOL

May react dangerously with: hydrobromic acid, iron, oxidising agents, sulphuric acid. Risk of explosion on contact with: phosphorus trichloride.

ETHYLBENZENE

Reacts violently with: strong oxidants. Attacks various types of plastic materials. May form explosive mixtures with: air.

10.4. Conditions to avoid

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

ETHANOL

Revision nr. 2 Meccanocar Italia S.r.l. Dated 10/03/2020 Printed on 10/03/2020 PETROL INJECTOR TREATMENT Page n. 14/37 Replaced revision:1 (Dated: 14/06/2018) Avoid exposure to: sources of heat,naked flames. High temperature. Proximity to sources of ignition ACETONE Avoid exposure to: sources of heat,naked flames. Highly flammable. Concentrated vapors are heavier than air. Forms explosive mixtures with air, even in empty and uncleaned containers. It can produce, if mixed with chlorinated hydrocarbons and exposed to light, highly irritating chlorine acetone. 2-BUTOXYETHANOL Avoid exposure to: sources of heat,naked flames. High temperatures and sources of ignition. Prolonged exposure with air / oxygen and light. BENZYL ALCOHOL Avoid exposure to: air, sources of heat, naked flames. ETHYLBENZENE Heat, sparks, open flames, other sources of ignition, oxidizing conditions, high temperature with dehydrating conditions. 10.5. Incompatible materials ETHANOL strong mineral acids, oxidizing agents. Aluminum at higher temperatures. ACETONE Incompatible with: acids,oxidising substances. Attacks many plastics and rubbers. Condensation may form on contact with barium hydroxide, sodium hydroxide and many other alkaline materials. Avoid contact with strong oxidizing agents, alkalis and amines. 2-BUTOXYETHANOL Oxidizing agents.

BENZYL ALCOHOL

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 15/37

Replaced revision:1 (Dated: 14/06/2018)

Incompatible with: sulphuric acid,oxidising substances,aluminium.

ETHYLBENZENE

- Strong oxidizing agents.
- Strong acids.
- Strong 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.

ETHANOL

Combustion will generate carbon oxides.

ACETONE

May develop: ketenes,irritant substances.

In case of fire the following can be released: carbon monoxide and carbon dioxide.

2-BUTOXYETHANOL

May develop: hydrogen.

Carbon oxides.

ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

- Incomplete combustion can cause the production of carbon monoxide, carbon dioxide and other toxic substances gas.
- Thermal decomposition can produce carbon monoxide and other toxic vapors.

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

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 16/37

Replaced revision:1 (Dated: 14/06/2018)

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.

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

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

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; 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.

XYLENE (MIXTURE OF ISOMERS)

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

ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispesl). Is irritating for skin, conjunctiva and respiratory tract.

Interactive effects

TOLUENE

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

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

LC50 (Inhalation) of the mixture:

> 20 mg/l

LD50 (Oral) of the mixture:

>2000 mg/kg

LD50 (Dermal) of the mixture:

>2000 mg/kg

2-BUTOXYETHANOL

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 17/37

Replaced revision:1 (Dated: 14/06/2018)

LD50 (Oral) 615 mg/kg Rat

LD50 (Dermal) 405 mg/kg Rabbit

LC50 (Inhalation) 2,2 mg/l/4h Rat

TOLUENE

LD50 (Oral) 5580 mg/kg Rat

LD50 (Dermal) 12124 mg/kg Rabbit

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

ETHYLBENZENE

LD50 (Oral) 3500 mg/kg Rat

LD50 (Dermal) 15354 mg/kg Rabbit

LC50 (Inhalation) 17,2 mg/l/4h Rat

ETHANOL

LD50 (Oral) > 5000 mg/kg Rat

LC50 (Inhalation) 120 mg/l/4h Pimephales promelas

HYDROCARBONS, C6-7, FROM NAFTA CRACKING, REFINED WITH SOLVENTS

Method: Equivalent or similar to OECD 401-Read across

Reliability: 1

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

Route of exposure: Oral

Results: LD50> 5000 mg / kg bw

Method: Equivalent or similar to OECD 403-Read across

Reliability: 1

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

Route of exposure: Inhalation (vapors)

Results: LC50> 5610 mg / m3 air

Method: Equivalent or similar to OECD 402-Read across

Reliability: 2 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)

Route of exposure: Oral

Results: LD50 = 5580 mg / kg bw

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 18/37

Replaced revision:1 (Dated: 14/06/2018)

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

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

Reliability: 2 Species: Rat (male)

Route of exposure: Inhalation (vapors)

Results: LD50 = 6700 ppm

ACETONE

Method: Not indicated

Reliability: 2

Species: Rat (Sprague-Dawley) Route of exposure: Oral Results: LD50 = 5800 mg / kg bw

Bibliographic reference: Acetone potentiation of acute acetonitrile toxicity, Freeman JJ, Hayes EP (1985)

2-BUTOXYETHANOL

Method: OECD 401

Reliability: 1

Species: guinea pig (Hartley; male / female)

Route of exposure: Oral

Results: LD50 = 1414 mg / kg bw Method: CFR title 49, section 173.132

Reliability: 2

Species: Guinea pig (Dunkin-Hartley; male / female)
Route of exposure: Inhalation (vapor)

Results: Not classified Method: OECD 402 Reliability: 1

Species: guinea pig (Hartley; male / female)

Route of exposure: Dermal Results: Not classified

BENZYL ALCOHOL

Method: Not indicated

Reliability: 2

Species: Rat (Wistar; male) Route of exposure: Oral Results: LD50 = 1.55 mL / kg bw Method: OECD 403

Reliability: 1

Species: Rat (Wistar; male / female) Route of exposure: Inhalation (aerosol)

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 19/37

Replaced revision:1 (Dated: 14/06/2018)

Results: NOAEC = 3297 mg / m3 air

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)

SKIN CORROSION / IRRITATION

Causes skin irritation

HYDROCARBONS, C6-7, FROM NAFTA CRACKING, REFINED WITH SOLVENTS

Method: OECD 404

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Dermal

Results: Irritating

TOLUENE

Method: EU Method B.4

Reliability: 1 Species: Rabbit (New Zealand White)

Route of exposure: Dermal

Results: Irritating

ETHANOL

Method: OECD 404

Reliability: 1 Species: Rabbit (New Zealand White)

Route of exposure: Dermal Results: Not irritating

2-BUTOXYETHANOL

Method: EU Method B.4

Reliability: 2

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

Route of exposure: Dermal

Results: Irritating

Bibliographic reference: Jacobs G, Martens M, Mosselmans G, Proposal of limit concentrations for skin irritation within the context of a new EEC directive on the classification and labeling of preparations. (1987)

BENZYL ALCOHOL

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 20/37

Replaced revision:1 (Dated: 14/06/2018)

Method: OECD 404

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Dermal Results: Not irritating

ETHYLBENZENE

Method: Not indicated Reliability: 2 Species: Rabbit

Route of exposure: Dermal Results: Slightly irritating

Bibliographic reference: Smyth, Jr. H.F., Carpenter, C.P., Weil, C.S., Pozzani, U.C. and Striegel, J.A.,

Range finding toxicity data: List VI (1962)

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

Bibliographic reference: Jacobs G and 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

HYDROCARBONS, C6-7, FROM NAFTA CRACKING, REFINED WITH SOLVENTS

Method: Equivalent or similar to OECD 405-Read across

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Ocular Results: Not irritating

TOLUENE

Method: OECD 405 Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Ocular Results: Slightly irritating

2-BUTOXYETHANOL

Method: OECD 405 Reliability: 1

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

Route of exposure: Ocular

Results: Irritating

BENZYL ALCOHOL

Method: OECD 405 Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Ocular

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 21/37

Replaced revision:1 (Dated: 14/06/2018)

Results: Irritating

ETHYLBENZENE

Method: Not indicated Reliability: 2 Species: Rabbit Route of exposure: Ocular

Results: Slightly irritating
Bibliographic reference: Wolf, M.A.; Rowe, V.K.; McCollister, D.D.; Hollingworth, R.L.; Oyen, F.,

Toxicological studies of certain alkylated benzenes. (1956)

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

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

TOLUENE

Method: EU Method B.6

Reliability: 1

Species: guinea pig (Himalayan Albino; female) Route of exposure: Dermal

Results: Not sensitizing

ACETONE

Method: Not indicated

Reliability: 2

Species: guinea pig (Hartley; female)

Route of exposure: Dermal Results: Not sensitizing

Bibliographic reference: A new protocol and criteria for quantitative determination of sensitization potencies of chemicals by guinea pig maximization test,

Nakamura A, Momma J, Sekiguchi H, Noda T, Yamano T, Kaniwa MA, Kojima S, Tsuda M, Kurokawa Y (1994)

2-BUTOXYETHANOL

Method: OECD 406

Reliability: 1 Species: Guinea pig (Dunkin-Hartley; male / female)

Route of exposure: Dermal Results: Not sensitizing

Method: Equivalent or similar to OECD 474-Test in vivo

Reliability: 1

Species: Mouse (B6C3F1)

Results: Negative

1,2,4-TRIMETHYLBENZENE

Method: Equivalent or similar to OECD 406

Reliability: 2

Species: guinea pig (P 'strain; male / female)

Route of exposure: Dermal

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 22/37

Replaced revision:1 (Dated: 14/06/2018)

Results: Not sensitizing

Skin sensitization

HYDROCARBONS, C6-7, FROM NAFTA CRACKING, REFINED WITH SOLVENTS

Method: Equivalent or similar to OECD 406-Read across

Reliability: 1

Species: guinea pig (Hartley; male) Route of exposure: Dermal Results: Not sensitizing

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C6-7, FROM NAFTA CRACKING, REFINED WITH SOLVENTS

Method: Equivalent or similar to OECD TG 479-in vitro test-Read across

Reliability: 1

Species: Chinese hamster

Results: Negative with and without metabolic activation Method: EPA OPPTS 870.5395-in vivo test-Read across

Reliability: 1

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

Route of exposure: Inhalation

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

ETHANOL

Method: Equivalent or similar to OECD 478 in vivo test

Reliability: 2

Species: Mouse (CFLP and Alderley Park; male)

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

2-BUTOXYETHANOL

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 23/37

Replaced revision:1 (Dated: 14/06/2018)

Method: Equivalent or similar to OECD 471 in vitro test

Reliability: 1
Species: S. typhimurium TA 1535

Results: negative Bibliographic reference:

Method: Equivalent or similar to OECD 474-Test in vivo

Reliability: 1

Species: Mouse (B6C3F1)

Results: Negative

ETHYLBENZENE

Method: EPA OPPTS 870.5300 - In vitro Mammalian Cell Gene Mutation Test in vitro test

Reliability: 1

Species: Lymphoma mouse

Results: Negative

Method: OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test) - in vivo test

Reliability: 1

Species: Mouse (NMRI; male) Route of exposure: Oral Results: Negative

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

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

HYDROCARBONS, C6-7, FROM NAFTA CRACKING, REFINED WITH SOLVENTS

Method: Equivalent or similar to OECD 451-Read across

Reliability: 1

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

Results: Negative

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".

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".

ACETONE

Method: Not indicated

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 24/37

Replaced revision:1 (Dated: 14/06/2018)

Reliability: 2

Species: Mouse (ICR; female) Route of exposure: Dermal

Results: Negative

Bibliographic reference: Mouse skin carcinogenicity tests of the flame retardants tris (2,3-dibromopropyl) phosphate, tetrakis (hydroxymethyl)

phosphonium chloride, and polyvinyl bromide, Van Duuren BL, Loewengart G, Seldman I, Smith AC, Melchionne S (1974)

BENZYL ALCOHOL

Method: Equivalent or similar to OECD 451

Reliability: 1

Species: Rat (Fischer 344; male / female)

Route of exposure: Oral Results: Negative

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000).
Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

2-BUTOXYETHANOL

Method: Not indicated

Reliability: 1

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

Route of exposure: Oral

Results: NOAEL = 720 mg / kg bw / day

Bibliographic reference: Heindel JJ, Gulati DK, Russel VS, Reel JR, Lawton AD and Lamb JC, Assessment of Ethylene Glycol Monobutyl and monophenol Ether reproductive toxicity using a continuous breeding protocol in Swiss CD-1 mice (1990).

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

Adverse effects on sexual function and fertility

HYDROCARBONS, C6-7, FROM NAFTA CRACKING, REFINED WITH SOLVENTS

Method: Equivalent or similar to OECD 416-Read across

Reliability: 1

Species: Rat (Sprague-Dawley; male / female) Route of exposure: Inhalation (vapors) Results: NOAEC (fertility)> = 20000 mg / m3 air

TOLUENE

Method: Not indicated

Reliability: 2

Route of exposure: Inhalation (vapors)
Results: Negative, NOAEC (fertility) = 600 ppm

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

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 25/37

Replaced revision:1 (Dated: 14/06/2018)

(1996)

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

ETHYLBENZENE

Method: Equivalent or similar to OECD Guideline 415

Reliability: 1

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

Route of exposure: Inhalation Results: NOAEC 1 000 ppm

Adverse effects on development of the offspring

HYDROCARBONS, C6-7, FROM NAFTA CRACKING, REFINED WITH SOLVENTS

Method: Equivalent or similar to OECD 414-Read across

Reliability: 1

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

Results: NOAEL (development) = 23900 mg / m3 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)

ETHANOL

Method: Not indicated

Reliability: 2

Species: Rat (Sprague-Dawley)

Route of exposure: Oral

Results: NOAEL (development) 5.2 g ethanol / kg bw / day

Bibliographic reference: Prenatal ethanol exposure has differential effects on fetal growth and skeletal ossification, Simpson ME, Duggal S, & Keiver K

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)

ACETONE

Method: Equivalent or similar to OECD 414

Reliability: 1

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

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 26/37

Replaced revision:1 (Dated: 14/06/2018)

Results: Negative, NOAEC (development) = 2200 ppm

ETHYLBENZENE

Method: OECD Guideline 414

Reliability: 1

Species: Rat (Sprague-Dawley) Route of exposure: Inhalation Results: NOAEC 500 ppm

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

HYDROCARBONS, C6-7, FROM NAFTA CRACKING, REFINED WITH SOLVENTS

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.

ETHANOL

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.

ACETONE

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

2-BUTOXYETHANOL

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

BENZYL ALCOHOL

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

ETHYLBENZENE

Based on available data and through expert judgment, the substance is 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.

Target organ

HYDROCARBONS, C6-7, FROM NAFTA CRACKING, REFINED WITH SOLVENTS

Central nervous system

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 27/37

Replaced revision:1 (Dated: 14/06/2018)

TOLUENE

Central nervous system

ACETONE

Narcotic effects

ETHYLBENZENE

hearing organs

1,2,4-TRIMETHYLBENZENE

Respiratory tract

Route of exposure

HYDROCARBONS, C6-7, FROM NAFTA CRACKING, REFINED WITH SOLVENTS

Inhalation

TOLUENE

Inhalation

ACETONE

Inhalation

1,2,4-TRIMETHYLBENZENE

Inhalation

STOT - REPEATED EXPOSURE

May cause damage to organs

HYDROCARBONS, C6-7, FROM NAFTA CRACKING, REFINED WITH SOLVENTS

Method: Not indicated

Reliability: 2

Species: Rat (Fischer 344; male) Route of exposure: Oral

Results: Not specified

Bibliographic reference: Hydrocarbon nephropathy in male rats: identification of the nephrotoxic components of unleaded gasoline, Halder CA, et al.

(1985) Method: Equivalent or similar to OECD 453-Read across

Reliability: 1

Species: Rat (Fischer 344; male / female) and mouse (B6C3F; male / female)

Route of exposure: Inhalation (vapors) Results: NOAEC = 1402 mg / m3 air

Method: Equivalent or similar to OECD 453-Read across

Reliability: 2

Species: Mouse (Swiss-Webster; male / female)

Route of exposure: Dermal Results: NOAEL = 0.5 ml

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 28/37

Replaced revision:1 (Dated: 14/06/2018)

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

ETHANOL

Method: Equivalent or similar to OECD 408

Reliability: 2

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

Route of exposure: Oral

Results: NOAEL 1 730 mg / kg bw / day

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

ACETONE

Method: Equivalent or similar to OECD 408

Reliability: 1

Species: Rat (Fischer 344; male / female)

Route of exposure: Oral

Results: Negative, NOAEL = 10000 ppm

Method: Not indicated

Reliability: 2

Species: Rat (Sprague-Dawley; male) Route of exposure: Inhalation Results: Negative, NOAEC = 19000 ppm

Bibliographic reference: Evaluation of toluene and acetone inhalant abuse. II. Model development and toxicology, Bruckner JV, Peterson RG (1981)

Method: Not indicated

Reliability: 2

Species: Not indicated Route of exposure: Dermal

Results: Negative

Bibliographic reference: Pathology of aging female SENCAR mice used as controls in skin two-stage carcinogenesis studies, Ward J. Quander RD, Wenk

M, Spangler E (1986)

2-BUTOXYETHANOL

Method: Equivalent or similar to OECD 408

Reliability: 1

Species: Rat (Fischer 344; male / female)

Route of exposure: Oral

Results: Negative, NOAEL <69 mg / kg bw Method: Equivalent or similar to OECD 453

Reliability: 1 Species: Rat (Fischer 344; male / female) Route of exposure: Inhalation (vapors) Results: Negative, NOAEC <31 ppm Method: Equivalent or similar to OECD 411

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 29/37

Replaced revision:1 (Dated: 14/06/2018)

Reliability: 1

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

Route of exposure: Dermal

Results: Negative; NOAEL> 150 mg / kg bw / day

BENZYL ALCOHOL

Method: Equivalent or similar to OECD 451

Reliability: 2

Species: Rat (Fischer 344; male / female)

Route of exposure: Oral

Results: NOAEL = 150 mg / kg bw / day

Method: OECD 412 Reliability: 1

Species: Rat (Sprague-Dawley; male / female)
Route of exposure: Inhalation (aerosol)
Results: NOAEC = 1072 mg / m3 air

ETHYLBENZENE

Method: OECD Guideline 407

Reliability: 1

Species: Rat (Wistar; male / female)

Route of exposure: Oral

Results: NOAEL 75 mg / kg bw / day

Method: Equivalent or similar to OECD Guideline 453

Reliability: 1

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

Results: NOAEC 250 ppm

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

Target organ TOLUENE

Neurological

Route of exposure TOLUENE

Inhalation

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 30/37

Replaced revision:1 (Dated: 14/06/2018)

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

XYLENE (MIXTURE OF ISOMERS)

LC50 - for Fish 2,6 mg/l/96h
EC50 - for Crustacea 1 mg/l/48h
EC50 - for Algae / Aquatic Plants 1,3 mg/l/72h
EC10 for Algae / Aquatic Plants 0,44 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants 0,44 mg/l

BENZYL ALCOHOL

LC50 - for Fish 460 mg/l/96h
EC50 - for Crustacea 230 mg/l/48h
EC50 - for Algae / Aquatic Plants 770 mg/l/72h
EC10 for Algae / Aquatic Plants 310 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants 310 mg/l

12.2. Persistence and degradability

TOLUENE

Easily degradable in water.

ETHANOL

Quickly biodegradable, 60% in 5 days. XYLENE (MIXTURE OF ISOMERS)

Rapidly degradable in water, 98% in 28 days

ACETONE

Easily degradable in water, 90.9% in 28 days.

2-BUTOXYETHANOL

Easily degradable.

BENŻYL ALCOHOL

Easily degradable in water, 95-97% in 21 days.

ETHYLBENZENE

Rapidly biodegradable, 79% in 28 days.

2-BUTOXYETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

1,2,4-TRIMETHYLBENZENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 31/37

Replaced revision:1 (Dated: 14/06/2018)

TOLUENE

Solubility in water 100 - 1000 mg/l

Rapidly degradable

ACETONE

Rapidly degradable

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Degradability: information not available

ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

ETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

BENZYL ALCOHOL

Rapidly degradable

12.3. Bioaccumulative potential

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

1,2,4-TRIMETHYLBENZENE

Partition coefficient: n-octanol/water 3,65 BCF 243

TOLUENE

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

ACETONE

Partition coefficient: n-octanol/water -0,23 BCF 3

XYLENE (MIXTURE OF ISOMERS)

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

ETHYLBENZENE

Partition coefficient: n-octanol/water 3,6

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 32/37

Replaced revision:1 (Dated: 14/06/2018)

ETHANOL

Partition coefficient: n-octanol/water -0,35

BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1,1

12.4. Mobility in soil

1,2,4-TRIMETHYLBENZENE

Partition coefficient: soil/water 3,04

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

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.

ACETONE

Incinerate as hazardous waste according to applicable local, state and federal regulations. Do not throw in household waste.

2-BUTOXYETHANOL

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

BENZYL ALCOHOL

Disposal methods: examine the possibilities of reuse. Product residues and empty uncleaned containers must be packed, sealed, labeled, and disposed of or recycled according to the relevant national and local regulations. In case of large quantities, consult the supplier. When empty uncleaned containers are transferred, the recipient must be alerted of any possible danger that may be caused by residue. For disposal within the EC, use the appropriate code according to the European waste list (EWL). It is the responsibility of the polluter to assign waste to specific waste codes for sectors and industrial processes according to the European Waste List (EWL).

ETHYLBENZENE

- The product must not be allowed to enter drains, water courses or the soil.
- The contaminated product, soil or water can be hazardous waste due to a potentially low flash point.
- Comply with applicable local, state or international regulations regarding solid or hazardous waste disposal and / or disposal of containers.
- Make sure that the effluent complies with the applicable regulations.
- Solids in landfills in permitted sites.
- Use registered carriers.

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 33/37

Replaced revision:1 (Dated: 14/06/2018)

- Burns concentrated liquids.
- Avoid the flames.
- Ensure that emissions comply with applicable regulations.
- Avoid overloading / poisoning the biomass of plants.
- Diluting aqueous waste can biodegrade.

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, 19

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:

IATA:

IATA:

Class: 3

Label: 3



14.4. Packing group

ADR / RID, IMDG,

Ш

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 33

Limited Quantities: 1

restriction code: (D/E)

Tunnel

Special Provision: -

Cargo:

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

Limited Quantities: 1

L

Maximum quantity: 60 L Packaging instructions: 364

Meccanocar Italia S.r.l. Dated 10/03/2020 Printed on 10/03/2020 PETROL INJECTOR TREATMENT Replaced revision:1 (Dated: 14/06/2018) Pass.: Maximum quantity: 5 L Special Instructions: АЗ 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Information not relevant **SECTION 15. Regulatory information** 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Seveso Category - Directive 2012/18/EC: P5c-E2 Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Product 3 - 40 Point Contained substance Point HYDROCARBONS, 28-29 C6-7, FROM NAFTA CRACKING. REFINED WITH SOLVENTS Reg. no.: 01-2119486793-22-XXXX Point TOLUENE Reg. no.: 48 01-2119471310-51-XXXX Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%. Substances subject to authorisation (Annex XIV REACH) None Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None

Substances subject to the Rotterdam Convention:

Substances subject to the Stockholm Convention:

None

None

Revision nr. 2

Page n. 34/37

Packaging

instructions: 353

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020 Printed on 10/03/2020

Page n. 35/37

Replaced revision:1 (Dated: 14/06/2018)

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. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3
Carc. 1A Carcinogenicity, category 1A

Muta. 1A Germ cell mutagenicity, category 1A

Repr. 2 Reproductive toxicity, category 2

Acute Tox. 4 Acute toxicity, category 4
Asp. Tox. 1 Aspiration hazard, category 1

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

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 2 Hazardous to the aquatic environment, chronic toxicity, category 2

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

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

H350 May cause cancer.

H340 May cause genetic defects.

H361 Suspected of damaging fertility or the unborn child.

H361d Suspected of damaging the unborn child.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

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

H319 Causes serious eye irritation.

H315 Causes skin irritation.

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

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

PETROL INJECTOR TREATMENT

Revision nr. 2

Dated 10/03/2020

Printed on 10/03/2020

Page n. 36/37

Replaced revision:1 (Dated: 14/06/2018)

- 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
- 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

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- 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
- 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 (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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- The Merck Index. 10th Edition
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- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
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- 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.

	Т
Meccanocar Italia S.r.l.	Revision nr. 2
	Dated 10/03/2020
PETROL INJECTOR TREATMENT	Printed on 10/03/2020
PETROL INSECTOR TREATMENT	Page n. 37/37
	Replaced revision:1 (Dated: 14/06/2018)
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01/03/08/09/10/11/12/13/13/10.	