PLT TEX A ECO WHITE: 160, 160 HD,

Revision nr. 4

Dated 01/02/2023

Printed on 02/02/2023

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Replaced revision:3 (Dated: 06/09/2021)

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

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

#### 1.1. Product identifier

PLT TEX A ECO WHITE: 160, 160 HD, Product name

UFI: ERA1-W0W1-800J-4M7Q

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

Intended use Screen printing ink.

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

COMEC ITALIA SRL Full address Piazzale del lavoro 149 District and Country 21044 Cavaria (VA)

ΙΤΔΙ ΙΔ

Tel. +39 0331 219516 Fax +39 0331 216161

e-mail address of the competent person

responsible for the Safety Data Sheet info@comec-italia.it Supplier: Edgardo Baggini

## 1.4. Emergency telephone number

For urgent inquiries refer to CENTRO ANTIVELENI OSPEDALE NIGUARDA MILANO Tel. 02/66101029 (24/24h) -

CENTRO ANTIVELENI POLICLINICO A.GEMELL ROMA Tel. 06/3054343 (24/24h) -

## **SECTION 2. Hazards identification**

# 2.1. Classification of the substance or mixture

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

Hazard classification and indication:

Flammable liquid, category 3 H226 Flammable liquid and vapour. Eye irritation, category 2 Causes serious eye irritation. H319 Specific target organ toxicity - single exposure, category 3 H336 May cause drowsiness or dizziness.

#### 2.2. Label elements

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

Hazard pictograms:

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Signal words: Warning

Hazard statements:

H226 Flammable liquid and vapour. H319 Causes serious eye irritation. May cause drowsiness or dizziness. H336

Precautionary statements:

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

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

P370+P378 In case of fire: use chemical powder, CO2 or dry send to extinguish.

Avoid breathing dust, gas or vapours. P261

Call a POISON CENTRE or a doctor if you feel unwell. P312

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Contains: 2-METHOXY-1-METHYLETHYL ACETATE

2-ETHOSSI-1-METHYL ETHYL ACETATE

## 2.3. Other hazards

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

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

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

# 3.2. Mixtures

Contains:

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

**TITANIUM DIOXIDE** 

INDEX - $45 \le x < 47.5$ 

EC 236-675-5 CAS 13463-67-7

2-METHOXY-1-METHYLETHYL

**ACETATE** 

INDEX 607-195-00-7  $13,5 \le x < 15$ Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-603-9 CAS 108-65-6

REACH Reg. 01-2119475791-29-

**Poliuretainc Resin** 

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INDEX  $12 \le x < 13.5$ 

EC CAS -

2-ETHOSSI-1-METHYL ETHYL

ACETATE

INDEX 603-177-00-8 12 ≤ x < 13,5 Flam. Liq. 3 H226, STOT SE 3 H336

EC 259-370-9 CAS 54839-24-6

REACH Reg. 01-2119475116-

39xxxx

4-HYDROXY-4-METHYLPENTAN-

2-ONE

INDEX 603-016-00-1  $10.5 \le x < 12$  Flam. Liq. 3 H226, Eye Irrit. 2 H319

EC 204-626-7 CAS 123-42-2

REACH Reg. 01-2119473975-

21xxxx

DIPROPYLEN GLYCOL

MONOMETHYL ETHER

INDEX -  $1,5 \le x < 2$  Substance with a community workplace exposure limit.

EC 252-104-2 CAS 34590-94-8

REACH Reg. 01-2119450011-

60xxxx

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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless 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

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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.

# 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. 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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

# 7.2. Conditions for safe storage, including any incompatibilities

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Store only in the original container. 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:

BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte.  MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea si completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2004/2004/2004/2004/2004/2004/2004/
	TLV-ACGIH	ACGIH 2021

TITANIUM DIOXIDE							
Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	10				RESP	
TLV	DNK	6					Som Ti
VLA	ESP	10					
VLEP	FRA	10					
NDS/NDSCh	POL	10				INHAL	
TLV	ROU	10		15			
NGV/KGV	SWE	5					Totaldamm
WEL	GBR	10				INHAL	
WEL	GBR	4				RESP	
TLV-ACGIH		2,5				RESP	

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Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,127	mg/l	
Normal value in marine water	1	mg/l	
Normal value for fresh water sediment	1000	mg/kg	
Normal value for marine water sediment	100	mg/kg	
Normal value for water, intermittent release	0,61	mg/l	
Normal value of STP microorganisms	100	mg/l	
Normal value for the terrestrial compartment	100	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				700 mg/m3						

Inhalation 10 mg/m3

Туре	Country	TWA/8h		STEL/15min		Remarks /	
		mg/m3	ppm	mg/m3	ppm	Observation	IS
TLV	BGR	275	50	550	100	SKIN	
TLV	CZE	270	49,14	550	100,1	SKIN	
AGW	DEU	270	50	270	50		
MAK	DEU	270	50	270	50		
TLV	DNK	275	50			SKIN	E
VLA	ESP	275	50	550	100	SKIN	
VLEP	FRA	275	50	550	100	SKIN	
VLEP	ITA	275	50	550	100	SKIN	
TGG	NLD	550					
VLE	PRT	275	50	550	100	SKIN	
NDS/NDSCh	POL	260		520		SKIN	
TLV	ROU	275	50	550	100	SKIN	
NGV/KGV	SWE	275	50	550	100	SKIN	
ESD	TUR	275	50	550	100	SKIN	
WEL	GBR	274	50	548	100	SKIN	
OEL	EU	275	50	550	100	SKIN	
Predicted no-effect conc	entration - PNEC						
Normal value in fresh wa	nter			0,635	m	g/l	
Normal value in marine v	water			0,0635	m	g/l	
Normal value for fresh w	ater sediment			3,29	m	g/kg	
Normal value for marine	water sediment			0,329	m	g/l	
Normal value for water, i	ntermittent release			6,35	m	g/l	
Normal value of STP mid	croorganisms			100	m	g/l	
Normal value for the terr	estrial compartment			0,29	m	g/kg	

# Health - Derived no-effect level - DNEL / DMEL

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	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			VND	1,67 mg/kg				
Inhalation			33 mg/m3	33 mg/m3	550 mg/m3		VND	275 mg/m3
Skin			VND	54,8 mg/kg			VND	153,5 mg/kg
2-ETHOSSI-1-METHYL Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks Observati		
		mg/m3	ppm	mg/m3	ppm	0200.744		
AGW	DEU	120	20	240	40	SKIN	14	
MAK	DEU	120	20	240	40	SKIN	Hinweis	
Predicted no-effect concent	tration - PNEC							
Normal value in fresh water	r			2	mg	j/l		
Normal value in marine wa	ter			0,8	mg	<b>J/</b> I		
Normal value for fresh water	er sediment			8,2	mg	ı/kg		
Normal value for marine wa	ater sediment			0,6	mg	J/kg		
Normal value for water, inte	ermittent release			2	mg	ı/l		
Normal value of STP micro	organisms			62,5	mg	ı/kg		
Normal value for the food c	hain (secondary poisor	ning)		117	mg	ı/kg		
Normal value for the terres	trial compartment			0,6	mg	ı/kg		
Health - Derived no-ef	fect level - DNEL / [ Effects on	DMEL			Effects on			
Davida of assessment	consumers	Ati	Oh	Ohi-	workers	At	Ohi- II	Ohi-
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic
Route of exposure Oral		Acute systemic	Chronic local VND				Chronic local	
Oral Inhalation		Acute systemic 365 mg/m3	VND	systemic 13,1 mg/kg 181 mg/m3			VND	systemic 302 mg/m3
Oral Inhalation Skin	Acute local VND	•	VND	systemic 13,1 mg/kg	Acute local	systemic		systemic
Oral Inhalation Skin  4-HYDROXY-4-METHY Threshold Limit Value	Acute local  VND  VLPENTAN-2-ONE	•	VND	systemic 13,1 mg/kg 181 mg/m3	Acute local	systemic	VND VND	systemic 302 mg/m3
Oral Inhalation Skin  4-HYDROXY-4-METHY Threshold Limit Value	Acute local  VND  /LPENTAN-2-ONE	365 mg/m3	VND VND VND	systemic 13,1 mg/kg 181 mg/m3 62 mg/kg  STEL/15min	VND	systemic 608 mg/m3	VND VND	systemic 302 mg/m3
Oral Inhalation Skin  4-HYDROXY-4-METHY Threshold Limit Value Type	VND  VLPENTAN-2-ONE  Country	365 mg/m3  TWA/8h  mg/m3	VND VND VND	systemic 13,1 mg/kg 181 mg/m3 62 mg/kg  STEL/15min mg/m3	VND ppm	systemic  608 mg/m3  Remarks	VND VND	systemic 302 mg/m3
Oral Inhalation Skin  4-HYDROXY-4-METHY Threshold Limit Value Type  TLV	VND VLPENTAN-2-ONE Country CZE	365 mg/m3  TWA/8h  mg/m3  200	VND VND VND ppm 41,4	systemic 13,1 mg/kg 181 mg/m3 62 mg/kg  STEL/15min mg/m3 300	VND  ppm 62,1	systemic  608 mg/m3  Remarks Observati	VND VND	systemic 302 mg/m3
Oral Inhalation Skin  4-HYDROXY-4-METHY Threshold Limit Value Type  TLV AGW	VND  VLPENTAN-2-ONE  Country  CZE  DEU	365 mg/m3  TWA/8h  mg/m3  200  96	VND VND VND ppm 41,4 20	systemic 13,1 mg/kg 181 mg/m3 62 mg/kg  STEL/15min mg/m3 300 192	Ppm 62,1 40	systemic  608 mg/m3  Remarks Observati	VND VND	systemic 302 mg/m3
Oral Inhalation Skin  4-HYDROXY-4-METHY Threshold Limit Value Type  TLV  AGW MAK	VND VLPENTAN-2-ONE Country  CZE DEU DEU	365 mg/m3  TWA/8h  mg/m3  200  96  96	VND VND VND VND 20 20	systemic 13,1 mg/kg 181 mg/m3 62 mg/kg  STEL/15min mg/m3 300	VND  ppm 62,1	systemic  608 mg/m3  Remarks Observati	VND VND	systemic 302 mg/m3
Oral Inhalation Skin  4-HYDROXY-4-METHY Threshold Limit Value Type  TLV  AGW  MAK TLV	Acute local  VND  VLPENTAN-2-ONE  Country  CZE  DEU  DEU  DNK	365 mg/m3  TWA/8h  mg/m3  200  96  96  240	VND VND VND ppm 41,4 20 20 50	systemic 13,1 mg/kg 181 mg/m3 62 mg/kg  STEL/15min mg/m3 300 192	Ppm 62,1 40	systemic  608 mg/m3  Remarks Observati	VND VND	systemic 302 mg/m3
Oral Inhalation Skin  4-HYDROXY-4-METHY Threshold Limit Value Type  TLV  AGW  MAK TLV  VLA	Acute local  VND  VLPENTAN-2-ONE  Country  CZE  DEU  DEU  DNK  ESP	365 mg/m3  TWA/8h  mg/m3  200  96  96  240  241	VND VND VND  ppm 41,4 20 20 50	systemic 13,1 mg/kg 181 mg/m3 62 mg/kg  STEL/15min mg/m3 300 192	Ppm 62,1 40	systemic  608 mg/m3  Remarks Observati	VND VND	systemic 302 mg/m3
Oral Inhalation Skin  4-HYDROXY-4-METHY Threshold Limit Value Type  TLV  AGW  MAK  TLV  VLA  VLEP	Acute local  VND  VLPENTAN-2-ONE  Country  CZE  DEU  DEU  DNK  ESP  FRA	365 mg/m3  TWA/8h  mg/m3  200  96  96  240  241  240	VND VND VND ppm 41,4 20 20 50	systemic 13,1 mg/kg 181 mg/m3 62 mg/kg  STEL/15min mg/m3 300 192	Ppm 62,1 40	Systemic  608 mg/m3  Remarks Observati  SKIN  SKIN	VND VND	systemic 302 mg/m3
Oral Inhalation Skin  4-HYDROXY-4-METHY Threshold Limit Value Type  TLV  AGW  MAK  TLV  VLA  VLEP  TGG	Acute local  VND  VND  CUPENTAN-2-ONE  Country  CZE  DEU  DEU  DNK  ESP  FRA  NLD	365 mg/m3  TWA/8h  mg/m3  200  96  96  240  241  240  120	VND VND VND  ppm 41,4 20 20 50	systemic 13,1 mg/kg 181 mg/m3 62 mg/kg  STEL/15min mg/m3 300 192	Ppm 62,1 40	systemic  608 mg/m3  Remarks Observati	VND VND	systemic 302 mg/m3
Oral Inhalation Skin  4-HYDROXY-4-METHY Threshold Limit Value Type  TLV  AGW  MAK  TLV  VLA  VLEP  TGG  NDS/NDSCh	Acute local  VND  VLPENTAN-2-ONE  Country  CZE  DEU  DEU  DNK  ESP  FRA  NLD  POL	365 mg/m3  TWA/8h  mg/m3  200  96  96  240  241  240	VND VND VND  ppm 41,4 20 20 50	systemic 13,1 mg/kg 181 mg/m3 62 mg/kg  STEL/15min mg/m3 300 192 192	Ppm 62,1 40	Systemic  608 mg/m3  Remarks Observati  SKIN  SKIN	VND VND	systemic 302 mg/m3
Oral Inhalation Skin  4-HYDROXY-4-METHY Threshold Limit Value Type  TLV  AGW  MAK  TLV  VLA  VLEP  TGG  NDS/NDSCh	Acute local  VND  VND  CUPENTAN-2-ONE  Country  CZE  DEU  DEU  DNK  ESP  FRA  NLD	365 mg/m3  TWA/8h  mg/m3  200  96  96  240  241  240  120	VND VND VND  ppm 41,4 20 20 50	systemic 13,1 mg/kg 181 mg/m3 62 mg/kg  STEL/15min mg/m3 300 192	Ppm 62,1 40	Systemic  608 mg/m3  Remarks Observati  SKIN  SKIN	VND VND	systemic 302 mg/m3
Oral Inhalation	Acute local  VND  VLPENTAN-2-ONE  Country  CZE  DEU  DEU  DNK  ESP  FRA  NLD  POL	365 mg/m3  TWA/8h mg/m3 200 96 96 240 241 240 120 240	VND VND VND VND  ppm 41,4 20 20 50 50	systemic 13,1 mg/kg 181 mg/m3 62 mg/kg  STEL/15min mg/m3 300 192 192	Ppm 62,1 40 40	Systemic  608 mg/m3  Remarks Observati  SKIN  SKIN	VND VND	systemic 302 mg/m3

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TLV-ACGIH

Predicted no-effect concentration - PNEC

#### **COMEC ITALIA SRL** Dated 01/02/2023 Printed on 02/02/2023 PLT TEX A ECO WHITE: 160, 160 HD, Page n. 8/20 Replaced revision:3 (Dated: 06/09/2021) Normal value in fresh water 2 mg/l 0.2 Normal value in marine water mg/l Normal value for fresh water sediment 9.06 mg/kg Normal value for marine water sediment 0,91 mg/kg Normal value for water, intermittent release ma/l 1 82 Normal value of STP microorganisms mg/l Normal value for the terrestrial compartment 0.63 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 3,4 mg/kg Inhalation 11,8 mg/m3 66,4 mg/m3 Skin 3,4 mg/kg 9,4 mg/kg **DIPROPYLEN GLYCOL MONOMETHYL ETHER Threshold Limit Value** Remarks / Type Country TWA/8h STEL/15min Observations mg/m3 ppm mg/m3 ppm TLV BGR 308 50 SKIN CZE 270 43,74 SKIN 550 89,1 310 50 AGW DEU 310 50 310 DFU 310 50 MAK 50 TI V DNK 309 50 SKIN Ε VLA **ESP** 308 50 SKIN VLEP FRA 308 50 SKIN VLEP ITA 308 50 SKIN TGG NLD 300 VIF PRT 308 50 SKIN NDS/NDSCh POL 240 SKIN 480 TLV ROU 308 50 SKIN NGV/KGV SWE 300 50 450 (C) 75 (C) SKIN ESD TUR 308 50 SKIN WFI GBR 308 50 SKIN 308 OFI FU 50 SKIN TLV-ACGIH 50 Predicted no-effect concentration - PNEC Normal value in fresh water 19 mg/l 1,9 Normal value in marine water mg/l 70,2 Normal value for fresh water sediment mg/kg Normal value for marine water sediment 7,02 mg/kg Normal value for the terrestrial compartment 2,74 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

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	syst	emic	systemic	systemic
Oral	VND 1,67	mg/kg		
	bw/d	d		
Inhalation	VND 37,2	2 mg/m3	VNI	O 310 mg/m3
Skin	VND 15 r	ng/kg	VNI	O 65 mg/kg
	hw/r			hw/d

HYDROM HYDROPHONE SILICATE									
Threshold Limit Value									
Туре	Country	TWA/8h		STEL/15min		Remarks /			
						Observations			
		mg/m3	ppm	mg/m3	ppm				
		<u> </u>							
AGW	DEU	4				INHAL			
MAK	DEU	4				INHAL			

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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

#### 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.

#### 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 I 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, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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

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

**ENVIRONMENTAL EXPOSURE CONTROLS** 

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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.

Information

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

# 9.1. Information on basic physical and chemical properties

**Properties** Value Appearance liquid Colour various Odour typical of solvent Melting point / freezing point not available Initial boiling point > 125 °C Flammability not available not available Lower explosive limit Upper explosive limit not available Flash point 23 ≤ T ≤ 60 °C Auto-ignition temperature not available Decomposition temperature not available рΗ not available not available Kinematic viscosity Solubility not available Partition coefficient: n-octanol/water not available Vapour pressure 0,83 mmHg Density and/or relative density 1.52 Relative vapour density not available

# 9.2. Other information

Particle characteristics

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 40,61 % - 617,73 g/litre VOC (volatile carbon) 23,38 % - 355,71 g/litre

# **SECTION 10. Stability and reactivity**

# 10.1. Reactivity

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

not applicable

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

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With the air it may slowly develop peroxides that explode with an increase in temperature.

4-HYDROXY-4-METHYLPENTAN-2-ONE

Decomposes at temperatures above 90°C/194°F.

DIPROPYLEN GLYCOL MONOMETHYL ETHER

Forms peroxides with: air.

## 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.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

4-HYDROXY-4-METHYLPENTAN-2-ONE

Risk of explosion on contact with: air,sources of heat. May react dangerously with: alkaline metals, amines, oxidising agents, acids.

DIPROPYLEN GLYCOL MONOMETHYL ETHER

May react violently with: strong oxidising agents.

#### 10.4. Conditions to avoid

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

4-HYDROXY-4-METHYLPENTAN-2-ONE

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

DIPROPYLEN GLYCOL MONOMETHYL ETHER

Avoid exposure to: sources of heat. Possibility of explosion.

#### 10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances, strong acids, alkaline metals.

## 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.

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# **SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

#### 2-METHOXY-1-METHYLETHYL ACETATE

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin.

4-HYDROXY-4-METHYLPENTAN-2-ONE WORKERS: inhalation; contact with the skin.

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

# 2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

#### 4-HYDROXY-4-METHYLPENTAN-2-ONE

Acute toxicity causes irritation of the eyes, nose and throat in humans at 100 ppm (476 mg/kg) and pulmonary disorders at 400 ppm. No chronic effects on humans have been reported. The substance may have a depressive effect on the respiratory centres and cause death from respiratory failure.

Interactive effects

Information not available

ACUTE TOXICITY

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ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

#### TITANIUM DIOXIDE

LD50 (Oral): > 5000 mg/l Ratto/Rat LC50 (Inhalation mists/powders): > 6,82 mg/l Ratto/Rat

#### 2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): > 5000 mg/kg Coniglio / Rabbit LD50 (Oral): 8500 mg/kg Ratto / Rat LC50 (Inhalation vapours): 4345 ppm/6h Ratto / Rat

## 2-ETHOSSI-1-METHYL ETHYL ACETATE

 LD50 (Dermal):
 13,42 ml/Kg Coniglio / Rabbit

 LD50 (Oral):
 > 5000 mg/kg Ratto / Rat

 LC50 (Inhalation vapours):
 6,99 mg/l/4h Rat

#### Poliuretainc Resin

LD50 (Dermal): > 2000 mg/kg Ratto / Rat LD50 (Oral): > 5000 mg/kg Ratto / Rat

## 4-HYDROXY-4-METHYLPENTAN-2-ONE

 LD50 (Dermal):
 > 1875 mg/kg Ratto / Rat

 LD50 (Oral):
 3002 mg/kg Rat

 LC50 (Inhalation vapours):
 > 7,6 mg/l Ratto / Rat

# DIPROPYLEN GLYCOL MONOMETHYL ETHER

LD50 (Dermal): 19020 mg/kg Coniglio / Rabbit LD50 (Oral): 5660 mg/kg Ratto / Rat

# SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

# SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

# RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

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# GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

# CARCINOGENICITY

Does not meet the classification criteria for this hazard class

## REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

## STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

## STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

# ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

## 11.2. Information on other hazards

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

# **SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

# 12.1. Toxicity

Poliuretainc Resin

LC50 - for Fish

> 100 mg/l/96h Danio rerio

EC50 - for Crustacea

> 100 mg/l/48h Daphnia magna

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ETHER

LC50 - for Fish > 10000 mg/l/96h Pimephales promelas

EC50 - for Crustacea 1919 mg/l/48h Daphnia Magna

EC10 for Algae / Aquatic Plants > 969 mg/l/48h

TITANIUM DIOXIDE

LC50 - for Fish > 10000 mg/l/96h Cypridonon variegatus

2-METHOXY-1-METHYLETHYL ACETATE

LC50 - for Fish 134 mg/l/96h Pesce, Oncorhynchus mykiss OECD 203

EC50 - for Crustacea > 500 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 1000 mg/l/72h Selenastrum capricornutum OECD 201

Chronic NOEC for Fish 47,5 mg/l Oryzias latipes 14 gg OECD 204
Chronic NOEC for Crustacea 100 mg/l Dapnia magna 21 gg OECD 202

2-ETHOSSI-1-METHYL ETHYL ACETATE

LC50 - for Fish 140 mg/l/48h Oncorhynchus mykiss (test 48h)

EC50 - for Crustacea 110 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 100 mg/l/72h Scenedesmus subspicatus

4-HYDROXY-4-METHYLPENTAN-2-ONE

LC50 - for Fish > 100 mg/l/96h Oryzias latipes
EC50 - for Crustacea > 1000 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants < 1000 mg/l/72h Pseudokirchneriella subcapitata

## 12.2. Persistence and degradability

Poliuretainc Resin
NOT rapidly degradable

Biodegradazione 1% 28 d Metodo di prova diretiva 92/69/CEE studi su prodotto analogo

DIPROPYLEN GLYCOL MONOMETHYL

ETHER

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

OECD 301 F - 75% 10 d - 79% 28 d 2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

OECD GI 301F 83% 10 d

2-ETHOSSI-1-METHYL ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

Activated sludge - 89%/15 d - 100%/28 d 4-HYDROXY-4-METHYLPENTAN-2-ONE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable AFNOR T 90-312 70% 10 d **12.3. Bioaccumulative potential** 

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DIPROPYLEN GLYCOL MONOMETHYL

**ETHER** 

Partition coefficient: n-octanol/water 0,0043

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2
BCF 100

2-ETHOSSI-1-METHYL ETHYL ACETATE

Partition coefficient: n-octanol/water 0,76 BCF 3,162

4-HYDROXY-4-METHYLPENTAN-2-ONE

Partition coefficient: n-octanol/water -0,09

## 12.4. Mobility in soil

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: soil/water 1,7

2-ETHOSSI-1-METHYL ETHYL ACETATE

Partition coefficient: soil/water 1

#### 12.5. Results of PBT and vPvB assessment

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

# 12.6. Endocrine disrupting properties

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

## 12.7. Other adverse effects

Information not available

# **SECTION 13. Disposal considerations**

## 13.1. Waste treatment methods

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.

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Packaging instructions:

instructions:

366 Packaging

355

# **SECTION 14. Transport information**

## 14.1. UN number or ID number

ADR / RID, IMDG, IATA: 1210

## 14.2. UN proper shipping name

ADR / RID: PRINTING INK or PRINTING INK RELATED MATERIAL IMDG: PRINTING INK or PRINTING INK RELATED MATERIAL PRINTING INK or PRINTING INK RELATED MATERIAL IATA:

## 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: Ш

#### 14.5. Environmental hazards

ADR / RID: NO NO IMDG: IATA: NO

# 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Tunnel Quantities: 5 restriction code: (D/E)

Special provision: 163, 367

EMS: F-E, S-D IMDG: Limited

Quantities: 5

IATA:

Cargo: Maximum quantity: 220

Pass.: Maximum

quantity: 60 L

Special provision: A3, A72, A192

# 14.7. Maritime transport in bulk according to IMO instruments

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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/EU: P5c

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

<u>Product</u>

Point 3 - 40

Contained substance

Point 75

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

not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

# 15.2. Chemical safety assessment

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

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## **SECTION 16. Other information**

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

Flam. Liq. 3 Flammable liquid, category 3 Eye Irrit. 2 Eye irritation, category 2

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

H226 Flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

#### I FGFND:

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

## GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP) 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)

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# 17. Regulation (EU) 2019/1148

- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP) 22. Delegated Regulation (UE) 2022/692 (XVIII 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.

#### CALCULATION METHODS FOR CLASSIFICATION

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

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

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

For information on any exposure scenarios of the substances present in the mixture, contact Sericom Italia srl.

Changes to previous review:

The following sections were modified:

01 / 02 / 08 / 09 / 11 / 12 / 14 / 15 / 16.