

## CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

tel. +39 0584 383694 fax +39 0584 395182

www.cecchi.it info@cecchi.it



NAUTILUS EPOXY PRIMER BIANCO Component A - Safety Data Sheet - february 2021 - n°batch 028-BA - rev. 1/2021

# Safety data sheet

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

### 1.1. Product identifier

Product name

NAUTILUS EPOXY PRIMER BIANCO component A

Chemical name and synonym

PRODOTTO VERNICIANTE A BASE DI POLIMERI EPOSSIDICI

UFI:

Q850-T0HF-W007-0F1S

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

Intended use

PITTURE VERNICI NAUTICA/MARINA

Identified Uses	Industrial	Professional	Consumer
Prodotto verniciante per nautica outdoor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Prodotto verniciante per usi industriali	<input checked="" type="checkbox"/>	-	-
Prodotto verniciante per nautica indoor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

### 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:

Cecchi Gustavo & C. srl - Via M. Coppino 253,

55049 Viareggio (LU) ITALY www.cecchi.it - [info@cecchi.it](mailto:info@cecchi.it)

### 1.4 Emergency telephone number:

+39 0584/383694 - [info@cecchi.it](mailto:info@cecchi.it)

From monday to friday office hours 8:30 - 12:30, 14:00 - 18:30

## 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:

Flammable liquid, category 2	H225	Highly flammable liquid and vapour.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

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

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Hazard pictograms:



Signal words:

Danger

Hazard statements:

<b>H225</b>	Highly flammable liquid and vapour.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

Precautionary statements:

<b>P501</b>	Dispose of contents / container to . . .
<b>P102</b>	Keep out of reach of children.
<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P280</b>	Wear protective gloves/ protective clothing / eye protection / face protection.
<b>P310</b>	Immediately call a POISON CENTER / doctor / . . .

Contains:

ISOBUTYL ALCOHOL  
RESINA EPOSSIDICA (BISFENOLO A EPICLORIDRINA) p.m. > 700  
PRODOTTO DI REAZIONE: BISFENOLO-A-EPICLORIDRINA; RESINE EPOSSIDICHE (PESO MOLECOLARE MEDIO >1100)  
XYLENE (MIXTURE OF ISOMERS)

Product not intended for uses provided for by Dir. 2004/42/CE.

### 2.3. Other hazards

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

## SECTION 3. Composition/information on ingredients

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
<b>RESINA EPOSSIDICA (BISFENOLO A EPICLORIDRINA) p.m. &gt; 700</b>		
CAS 25036-25-3	$16 \leq x < 19$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317
EC		

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### TITANIUM DIOXIDE

CAS 13463-67-7  $13 \leq x < 16$

EC 236-675-5

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Reg. no. 01-2119489379-17-XXXX

### XYLENE (MIXTURE OF ISOMERS)

CAS 1330-20-7  $9 \leq x < 10$

Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, 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

### METILETILCHETONE

CAS 78-93-3  $6 \leq x < 7$

Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 201-159-0

INDEX 606-002-00-3

Reg. no. 01-2119457290-43

### METILISOBUTILCHETONE

CAS 108-10-1  $6 \leq x < 7$

Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066

EC 203-550-1

INDEX 606-004-00-4

Reg. no. 01-2119473980-30

### QUARTZ

CAS 14808-60-7  $6 \leq x < 7$

Substance with a community workplace exposure limit.

EC 238-878-4

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### ISOBUTYL ALCOHOL

CAS 78-83-1  $5 \leq x < 6$

Flam. Liq. 3 H226, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336

EC 201-148-0

INDEX 603-108-00-1

Reg. no. 01-2119484609-23

### REAZIONE DI MASSA DELL'ETILBENZENE E DELLO XILENE

CAS -  $5 \leq x < 6$

Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Classification note according to Annex VI to the CLP Regulation: C

EC 905-588-0

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Reg. no. 01-2119488216-32-XXXX

### 1-METOSSI-2-PROPANOLO

CAS 107-98-2  $4 \leq x < 5$

Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-539-1

INDEX 603-064-00-3

Reg. no. 01-2119457435-35

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### TALC

CAS 14807-96-6  $4 \leq x < 5$

EC 238-877-9

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### PRODOTTO DI REAZIONE: BISFENOLO-A- EPICLORIDRINA; RESINE EPOSSIDICHE (PESO MOLECOLARE MEDIO >1100)

CAS 25068-38-6  $3 \leq x < 4$

Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317, Aquatic Chronic 2 H411

EC 500-033-5

INDEX 603-074-00-8

Reg. no. 01-2119456619-26-XXXX

### N-BUTYL ACETATE

CAS 123-86-4  $0,4 \leq x < 0,7$

Flam. Liq. 3 H226, STOT SE 3 H336, EUH066

EC 204-658-1

INDEX 607-025-00-1

Reg. no. 01-2119485493-29-XXXX

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

CAS 123-42-2  $0,1 \leq x < 0,4$

Flam. Liq. 3 H226, Repr. 2 H361, Eye Irrit. 2 H319, STOT SE 3 H335

EC 204-626-7

INDEX 603-016-00-1

Reg. no. 01-2119473975-21-XXXX  
2119473975-21

### Oleic acid, compound with (Z)-N- octadec-9-enylpropane-1,3-diamine (2:1)

CAS 34140-91-5  $0,1 \leq x < 0,4$

STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Acute 1 H400  
M=1, Aquatic Chronic 2 H411

EC 251-846-4

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### ACETATO DI 1-METIL-2- METOSSETILE

CAS 108-65-6  $0,05 \leq x < 0,1$

Flam. Liq. 3 H226, STOT SE 3 H336

EC 203-603-9

INDEX 607-195-00-7

Reg. no. 01-2119475791-29-XXXX

### FORMALDEHYDE

CAS 50-00-0  $0 \leq x < 0,05$

Carc. 1B H350, Muta. 2 H341, Acute Tox. 3 H301, Acute Tox. 3 H311, Skin  
Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Skin Sens. 1B H317,  
Classification note according to Annex VI to the CLP Regulation: B D

EC 200-001-8

INDEX 605-001-00-5

Reg. no. 01-2119488953-20-XXXX

### XYLENE (MIXTURE OF ISOMERS)

CAS 1330-20-7  $0 \leq x < 0,05$

Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,  
STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335,  
Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP  
Regulation: C

EC 215-535-7

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INDEX 601-022-00-9

Reg. no. 01-2119488216-32-XXXX

### ETHYLBENZENE

CAS 100-41-4

$0 \leq x < 0,05$

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

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

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

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

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

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

Information not available

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

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

#### 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).

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## 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. 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.

Storage class TRGS 510 (Germany):

3

### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

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## Regulatory References:

DEU	Deutschland	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
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
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018, 2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de implementatie van Richtlijn 2017/164 in Bijlage XIII
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
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r
ROU	România	HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition, published 2018)
EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2019/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2020

**TITANIUM DIOXIDE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
VLA	ESP	10				
VLEP	FRA	10				
NDS/NDSch	POL	10				INHAL
TLV	ROU	10		15		
WEL	GBR	10				INHAL
WEL	GBR	4				RESP
TLV-ACGIH		10				

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,184	mg/l
Normal value in marine water	0,0184	mg/l
Normal value for fresh water sediment	100	mg/kg/d
Normal value for marine water sediment	1000	mg/kg/d
Normal value for water, intermittent release	0,193	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	100	mg/kg/d

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

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		700 mg/kg bw/d		NPI		NPI		NPI
Inhalation	NPI	NPI	NPI	NPI	NPI	NPI	10 mg/m <sup>3</sup>	NPI
Skin	NPI	NPI	NPI	NPI	NPI	NPI	NPI	NPI

**XYLENE (MIXTURE OF ISOMERS)****Threshold Limit Value**

Type	Country	TWA/8h	STEL/15min	Remarks / Observations

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		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	440	100	880	200	SKIN
MAK	DEU	440	100	880	200	SKIN
VLA	ESP	221	50	442	100	SKIN
VLEP	FRA	221	50	442	100	SKIN
VLEP	ITA	221	50	442	100	SKIN
TGG	NLD	210		442		SKIN
NDS/NDSCh	POL	100				
WEL	GBR	220	50	441	100	
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,327	mg/l
Normal value in marine water	0,327	mg/l
Normal value for fresh water sediment	12,46	mg/kg
Normal value for marine water sediment	12,46	mg/kg
Normal value of STP microorganisms	6,58	mg/l
Normal value for the terrestrial compartment	2,31	mg/kg

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

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1.6 mg/kg bw/d				
Inhalation	174 mg/m3	174 mg/m3		14.8 mg/m3	289 mg/m3	289 mg/m3		77 mg/m3
Skin		108 mg/kg bw/d				180 mg/kg bw/d		

**METILETILCHETONE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	600	200	600	200	SKIN
MAK	DEU	600	200	600	200	SKIN
VLA	ESP	600	200	900	300	
VLEP	FRA	600	200	900	300	SKIN
VLEP	ITA	600	200	900	300	
TGG	NLD	590		500		SKIN
VLE	PRT	600	200	900	300	
NDS/NDSCh	POL	450		900		SKIN
TLV	ROU	600	200	900	300	
WEL	GBR	600	200	899	300	SKIN
OEL	EU	600	200	900	300	
TLV-ACGIH		590	200	885	300	

**Predicted no-effect concentration - PNEC**



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Normal value in fresh water	55,8	mg/l
Normal value in marine water	55,8	mg/l
Normal value for fresh water sediment	284,74	mg/kg
Normal value for marine water sediment	287,7	mg/kg

<b>Health - Derived no-effect level - DNEL / DMEL</b>								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				31 mg/kg				
Inhalation				406 mg/m3				600 mg/m3
Skin				412 mg/kg				1161 mg/kg

**METILISOBUTILCHETONE**

<b>Threshold Limit Value</b>						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	83	20	166	40	SKIN
MAK	DEU	83	20	166	40	SKIN
VLA	ESP	83	20	208	50	
VLEP	FRA	83	20	208	50	
VLEP	ITA	83	20	208	50	
TGG	NLD	104		208		
VLE	PRT	83	20	208	50	
NDS/NDSCh	POL	83		200		
TLV	ROU	83	20	208	50	
WEL	GBR	208	50	416	100	SKIN
OEL	EU	83	20	208	50	
TLV-ACGIH		82	20	307	75	

<b>Predicted no-effect concentration - PNEC</b>		
Normal value in fresh water	600	µg/L
Normal value in marine water	60	µg/L
Normal value for fresh water sediment	8,27	mg/kg/d
Normal value for marine water sediment	830	µg/kg/dw
Normal value for water, intermittent release	1,5	mg/l
Normal value of STP microorganisms	27,5	mg/l
Normal value for the food chain (secondary poisoning)	NPI	
Normal value for the terrestrial compartment	1,3	mg/kg/d
Normal value for the atmosphere	NPI	

<b>Health - Derived no-effect level - DNEL / DMEL</b>								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		4,2 mg/kg/d				
Inhalation	155,2 mg/m3	155,2 mg/m3	14,7 mg/m3	14,7 mg/m3	208 mg/m3	208 mg/m3	83 mg/m3	83 mg/m3
Skin	NPI	NPI		4,2 mg/kg bw/d	NPI	NPI		11,8 mg/kg bw/d

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<b>QUARTZ</b>						
<b>Threshold Limit Value</b>						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP		0,05			RESP
VLEP	FRA	0,1				RESP
VLEP	ITA	0,1				RESP
TGG	NLD	0,075				RESP
NDS/NDSCh	POL	0,1				RESP
OEL	EU	0,1				RESP
TLV-ACGIH		0,025				

<b>ISOBUTYL ALCOHOL</b>						
<b>Threshold Limit Value</b>						
Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	310	100	310 (C)	100 (C)	
MAK	DEU	310	100	310	100	
VLA	ESP	154	50			
VLEP	FRA	150	50			
TGG	NLD	150				
NDS/NDSCh	POL	100		200		SKIN
TLV	ROU	100	33	200	66	
WEL	GBR	154	50	231	75	
TLV-ACGIH		152	50			

<b>Predicted no-effect concentration - PNEC</b>						
Normal value in fresh water				0,4		mg/l
Normal value in marine water				0,04		mg/l
Normal value for fresh water sediment				1,52		mg/kg d.w
Normal value for marine water sediment				0,152		mg/kg d.w.
Normal value for water, intermittent release				11		mg/l
Normal value of STP microorganisms				10		mg/l
Normal value for the terrestrial compartment				0,0699		mg/kg d.w
Normal value for the atmosphere				NPI		

<b>Health - Derived no-effect level - DNEL / DMEL</b>								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		NPI			25 mg/kg d.w.	VND
Inhalation			310 mg/m3	VND			55 mg/m3	VND
Skin		NPI		NPI		NPI		NPI

**REAZIONE DI MASSA DELL'ETILBENZENE E DELLO XILENE**

**CECCHI GUSTAVO & C.**

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

tel. +39 0584 383694 fax +39 0584 395182

www.cecchi.it info@cecchi.it



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Predicted no-effect concentration - PNEC		
Normal value in fresh water	327	µg/L
Normal value in marine water	327	µg/L
Normal value for fresh water sediment	12,46	mg/kg/d
Normal value for marine water sediment	12,46	mg/kg/d
Normal value of STP microorganisms	6,58	mg/l
Normal value for the terrestrial compartment	2,31	mg/kg/d

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				12,5 mg/kg bw/d				
Inhalation	260 mg/m3	260 mg/m3	65,3 mg/m3	65,3 mg/m3	442 mg/m3	442 mg/m3	221 mg/m3	221 mg/m3
Skin				125 mg/kg bw/d				212 mg/kg bw/d

**1-METOSSI-2-PROPANOLO****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	370	100	740	200	
MAK	DEU	370	100	740	200	
VLA	ESP	375	100	568	150	SKIN
VLEP	FRA	188	50	375	100	SKIN
VLEP	ITA	375	100	568	150	SKIN
TGG	NLD	375		563		SKIN
VLE	PRT	375	100	568	150	
NDS/NDSCh	POL	180		360		SKIN
TLV	ROU	375	100	568	150	SKIN
WEL	GBR	375	100	560	150	SKIN
OEL	EU	375	100	568	150	SKIN
TLV-ACGIH		184	50	368	100	

Predicted no-effect concentration - PNEC		
Normal value in fresh water	10	mg/l
Normal value in marine water	1	mg/l
Normal value for fresh water sediment	52,3	mg/kg
Normal value for marine water sediment	5,2	mg/kg
Normal value for water, intermittent release	100	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	4,59	mg/kg pc/giorno

Health - Derived no-effect level - DNEL / DMEL								
Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			3,3 mg/kg					

**CECCHI GUSTAVO & C.**

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

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Inhalation	43,9 mg/m3	553,5 mg/m3	369 mg/m3
Skin	18,1 mg/kg		50,6 mg/kg

**TALC****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLA	ESP	2				RESP
TGG	NLD	0,25				
NDS/NDSCh	POL	4				INHAL
NDS/NDSCh	POL	1				RESP
TLV	ROU	2				
WEL	GBR	1				RESP
TLV-ACGIH		2				

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	597,97	mg/l
Normal value in marine water	141,26	mg/l
Normal value for fresh water sediment	31,33	mg/kg/d
Normal value for marine water sediment	3,13	mg/kg/d
Normal value for the atmosphere	10	mg/m3

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

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		160 mg/kg bw/d		160 mg/kg bw/d				
Inhalation	1,8 mg/m3	1,08 mg/m3	1,8 mg/m3	1,08 mg/m3	3,6 mg/m3	2,16 mg/m3	3,6 mg/m3	2,16 mg/m3
Skin	NPI	NPI	2,27 mg/kg bw/d	26,1 mg/kg bw/d	NPI	NPI	4,54 mg/kg bw/d	43,2 mg/kg bw/d

**PRODOTTO DI REAZIONE: BISFENOLO-A-EPICLORIDRINA; RESINE EPOSSIDICHE (PESO MOLECOLARE MEDIO >1100)****Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,006	mg/l
Normal value in marine water	0,0006	mg/l
Normal value for fresh water sediment	0,0627	mg/kg
Normal value for marine water sediment	0,00627	mg/kg
Normal value for water, intermittent release	10	mg/l

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

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			0,012 mg/kg					0,012 mg/kg
Skin					8,33 mg/kg			8,33 mg/kg

**N-BUTYL ACETATE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	

**CECCHI GUSTAVO & C.**

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

tel. +39 0584 383694 fax +39 0584 395182

www.cecchi.it info@cecchi.it

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AGW	DEU	300	62	600 (C)	124 (C)
VLA	ESP	724	150	965	200
VLEP	FRA	710	150	940	200
TGG	NLD	150			
NDS/NDSCh	POL	240		720	
TLV	ROU	715	150	950	200
WEL	GBR	724	150	966	200
OEL	EU	241	50	723	150
TLV-ACGIH			50		150

## Predicted no-effect concentration - PNEC

Normal value in fresh water	0,18	mg/l
Normal value in marine water	0,018	mg/l
Normal value for fresh water sediment	0,981	mg/kg
Normal value for marine water sediment	0,0981	mg/kg
Normal value for water, intermittent release	0,36	mg/l
Normal value of STP microorganisms	35,6	mg/l
Normal value for the terrestrial compartment	0,0903	mg/kg

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

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		2 mg/kg bw/d		2 mg/kg bw/d				
Inhalation	300 mg/m3	300 mg/m3	37.5 mg/m3	12 mg/m3	300 mg/m3	48 mg/m3	600 mg/m3	600 mg/m3
Skin	NPI	3.4 mg/kg bw/d	NPI	6 mg/kg bw/d	NPI	11 mg/kg bw/d	NPI	7 mg/kg bw/d

**4-HYDROXY-4-METHYLPENTAN-2-ONE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	96	20	192	40	SKIN
MAK	DEU	96	20	192	40	SKIN
VLA	ESP	241	50			
VLEP	FRA	240	50			
TGG	NLD	120				SKIN
NDS/NDSCh	POL	240				
TLV	ROU	150	32	250	53	
WEL	GBR	241	50	362	75	
TLV-ACGIH		238	50			

## Predicted no-effect concentration - PNEC

Normal value in fresh water	2	mg/l
Normal value in marine water	0,2	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	1	mg/l



**CECCHI GUSTAVO & C.**

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

tel. +39 0584 383694 fax +39 0584 395182

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Oral	500 mg/kg bw/d	36 mg/kg bw/d	1,67 mg/kg					
Inhalation	NPI	NPI	33 mg/m3	33 mg/m3	550 mg/m3	NPI	NPI	275 mg/m3
Skin	NPI	NPI	NPI	320 mg/kg bw/d	NPI	NPI	NPI	796 mg/kg bw/d

**FORMALDEHYDE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	0,37	0,3	0,74	0,6	
VLA	ESP	0,37	0,3	0,74	0,6	
VLEP	FRA		0,5		1	
TGG	NLD	0,15		0,5		
NDS/NDSch	POL	0,37		0,74		SKIN
TLV	ROU	1,2	1	3	2	
WEL	GBR	2,5	2	2,5	2	
OEL	EU	0,37	0,3	0,74	0,6	
TLV-ACGIH			0,1		0,3 (C)	

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,47	mg/l
Normal value in marine water	0,47	mg/l
Normal value for fresh water sediment	2,44	mg/kg
Normal value for marine water sediment	2,3	mg/kg/d
Normal value of STP microorganisms	0,19	mg/l
Normal value for the terrestrial compartment	0,21	mg/kg
Normal value for the atmosphere	NPI	

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

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		4.1 mg/kg bw/d				
Inhalation	NPI	NPI	0.1 mg/m3	3.2 mg/m3	NPI	1 mg/m3	0.5 mg/m3	9 mg/m3
Skin	NPI	NPI	NPI	102 mg/kg bw/d	NPI	NPI	NPI	240 mg/kg bw/d

**XYLENE (MIXTURE OF ISOMERS)****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	440	100	880	200	SKIN
MAK	DEU	440	100	880	200	SKIN
VLA	ESP	221	50	442	100	SKIN
VLEP	FRA	221	50	442	100	SKIN
VLEP	ITA	221	50	442	100	SKIN
TGG	NLD	210		442		SKIN
VLE	PRT	221	50	442	100	SKIN

**CECCHI GUSTAVO & C.**

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

tel. +39 0584 383694 fax +39 0584 395182

www.cecchi.it info@cecchi.it

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NDS/NDSch	POL	100		200		SKIN
TLV	ROU	221	50	442	100	SKIN
WEL	GBR	220	50	441	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	

**Predicted no-effect concentration - PNEC**

Normal value in fresh water		0,327		mg/l
Normal value in marine water		0,327		mg/l
Normal value for fresh water sediment		12,46		mg/kg
Normal value for marine water sediment		12,46		mg/kg
Normal value of STP microorganisms		6,58		mg/l
Normal value for the terrestrial compartment		2,31		mg/kg

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

Route of exposure	Effects on consumers			Chronic systemic 1.6 mg/kg bw/d	Effects on workers			Chronic systemic 180 mg/kg
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	
Oral								
Inhalation	174 mg/m3	174 mg/m3		14,8 mg/m3	289 mg/m3	289 mg/m3		77 mg/m3
Skin		108 mg/kg bw/d						180 mg/kg bw/d

**ETHYLBENZENE****Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	88	20	176	40	SKIN
MAK	DEU	88	20	176	40	SKIN
VLA	ESP	441	100	884	200	SKIN
VLEP	FRA	88,4	20	442	100	SKIN
VLEP	ITA	442	100	884	200	SKIN
TGG	NLD	215		430		SKIN
VLE	PRT	442	100	884	200	SKIN
NDS/NDSch	POL	200		400		SKIN
TLV	ROU	442	100	884	200	SKIN
WEL	GBR	441	100	552	125	SKIN
OEL	EU	442	100	884	200	SKIN
TLV-ACGIH		87	20			

**Predicted no-effect concentration - PNEC**

Normal value in fresh water		0,1		mg/l
Normal value in marine water		0,01		mg/l
Normal value for fresh water sediment		13,7		mg/l
Normal value for marine water sediment		13,7		mg/l
Normal value of STP microorganisms		9,6		mg/l
Normal value for the food chain (secondary poisoning)		20		mg/kg



## CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

tel. +39 0584 383694 fax +39 0584 395182

www.cecchi.it info@cecchi.it



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Normal value for the terrestrial compartment	2,68	mg/kg						
Normal value for the atmosphere	NPI							
<b>Health - Derived no-effect level - DNEL / DMEL</b>								
	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		NPI		1,6 mg/kg				
Inhalation	NPI		NPI	15 mg/m <sup>3</sup>	293 mg/m <sup>3</sup>		442 mg/m <sup>3</sup>	77 mg/m <sup>3</sup>
Skin	NPI	NPI	NPI	NPI	NPI	NPI	NPI	180 mg/kg/d

Legend:

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

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

### 8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

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

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

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

#### SKIN PROTECTION

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

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

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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

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

#### ENVIRONMENTAL EXPOSURE CONTROLS

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.

## CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

tel. +39 0584 383694 fax +39 0584 395182

www.cecchi.it info@cecchi.it



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## SECTION 9. Physical and chemical properties

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

Appearance	dense liquid	
Colour	light grey	
Odour	strong	
Odour threshold	Not available	
pH	Not available	Reason for missing data:Non miscibile con acqua
Melting point / freezing point	Not available	
Initial boiling point	> 35 °C	
Boiling range	Not available	
Flash point	< 23 °C	
Evaporation Rate	Not available	
Flammability of solids and gases	Not available	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Vapour pressure	28,12 mmHg	
Vapour density	Not available	
Relative density	1,24	
Solubility	NOT DETECTABLE IN WATER	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	>20,5 mm <sup>2</sup> /sec (40°C)	
Explosive properties	Not available	
Oxidising properties	Not available	

### 9.2. Other information

Total solids (250°C / 482°F)	59,18 %
VOC (Directive 2010/75/EC) :	40,42 % - 501,21 g/litre
VOC (volatile carbon) :	30,20 % - 373,86 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.

METILETILCHETONE

## CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

tel. +39 0584 383694 fax +39 0584 395182

www.cecchi.it info@cecchi.it



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Reacts with: light metals, strong oxidants. Attacks various types of plastic materials. Decomposes under the effect of heat.

### METILISOBUTILCHETONE

Reacts violently with: light metals. Attacks various types of plastic materials.

### 1-METOSI-2-PROPANOLO

Dissolves various plastic materials. Stable in normal conditions of use and storage.

Assorbe e si scioglie in acqua ed in solventi organici. Con l'aria può dare lentamente perossidi esplosivi.

### N-BUTYL ACETATE

Decomposes on contact with: water.

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

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

### ACETATO DI 1-METIL-2-METOSIETILE

Stable in normal conditions of use and storage.

Con l'aria può dare lentamente perossidi che esplodono per aumento di temperatura.

### FORMALDEHYDE

Decomposes under the effect of heat.

Aqueous solutions are stabilised with methanol but tend to polymerise over time.

## 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.

### XYLENE (MIXTURE OF ISOMERS)

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

### METILETILCHETONE

May form peroxides with: air, light, strong oxidising agents. Risk of explosion on contact with: hydrogen peroxide, nitric acid, sulphuric acid. May react dangerously with: oxidising agents, trichloromethane, alkalis. Forms explosive mixtures with: air.

## CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

tel. +39 0584 383694 fax +39 0584 395182

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### METILISOBUTILCHETONE

May react violently with: oxidising agents. Forms peroxides with: air. Forms explosive mixtures with: hot air.

### 1-METOSI-2-PROPANOLO

May react dangerously with: strong oxidising agents, strong acids.

### N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents. May react dangerously with: alkaline hydroxides, potassium tert-butoxide. Forms explosive mixtures with: air.

### 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.

### ACETATO DI 1-METIL-2-METOSIETILE

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

### FORMALDEHYDE

Risk of explosion on contact with: nitromethane, nitrogen dioxide, hydrogen peroxide, phenols, performic acid, nitric acid. May polymerise on contact with: strong oxidising agents, alkalis. May react dangerously with: hydrochloric acid, magnesium carbonate, sodium hydroxide, perchloric acid, aniline. 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.

### 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.

### METILETILCHETONE

Avoid exposure to: sources of heat.

### METILISOBUTILCHETONE

Avoid exposure to: sources of heat.

### 1-METOSI-2-PROPANOLO

Avoid exposure to: air.

### N-BUTYL ACETATE

## CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

tel. +39 0584 383694 fax +39 0584 395182

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

4-HYDROXY-4-METHYLPENTAN-2-ONE

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

FORMALDEHYDE

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

### 10.5. Incompatible materials

METILETILCHETONE

Incompatible with: strong oxidants, inorganic acids, ammonia, copper, chloroform.

METILISOBUTILCHETONE

Incompatible with: oxidising substances, reducing substances.

1-METOSI-2-PROPANOLO

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

N-BUTYL ACETATE

Incompatible with: water, nitrates, strong oxidants, acids, alkalis, zinc.

ACETATO DI 1-METIL-2-METOSIETILE

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

FORMALDEHYDE

Incompatible with: acids, alkalis, ammonia, tannin, strong oxidants, phenoles, copper salts, silver, iron.

### 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.

FORMALDEHYDE

When heated to decomposition releases: methanol, carbon monoxide.

ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

## SECTION 11. Toxicological information

## CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

tel. +39 0584 383694 fax +39 0584 395182

www.cecchi.it info@cecchi.it



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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 toxicological effects

#### XYLENE (MIXTURE OF ISOMERS)

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

#### Metabolism, toxicokinetics, mechanism of action and other information

#### ACETATO DI 1-METIL-2-METOSSJETILE

La principale via di entrata è quella cutanea, mentre quella respiratoria è meno importante, data la bassa tensione di vapore del prodotto.

#### Information on likely routes of exposure

#### 1-METOSI-2-PROPANOLO

LAVORATORI: inalazione; contatto con la cute.

POPOLAZIONE: ingestione di cibo o di acqua contaminati; inalazione aria ambiente; contatto con la cute di prodotti contenenti la sostanza.

#### N-BUTYL ACETATE

WORKERS: inhalation; contact with the skin.

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

WORKERS: inhalation; contact with the skin.

#### ACETATO DI 1-METIL-2-METOSSJETILE

LAVORATORI: inalazione; contatto con la cute.

#### 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

#### 1-METOSI-2-PROPANOLO

La principale via di entrata è quella cutanea, mentre quella respiratoria è meno importante, data la bassa tensione di vapore del prodotto. Al di sopra di 100 ppm si ha irritazione delle mucose oculari, nasali e orofaringee. A 1000 ppm si notano turbe nell'equilibrio e irritazione severa agli occhi. Gli esami clinici e biologici praticati sui volontari esposti non hanno rivelato anomalie. L'acetato produce maggiore irritazione cutanea ed oculare per contatto diretto. Non vengono riportati effetti cronici sull'uomo.

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### N-BUTYL ACETATE

In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

### 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.

### ACETATO DI 1-METIL-2-METOSSIETILE

Al di sopra di 100 ppm si ha irritazione delle mucose oculari, nasali e orofaringee. A 1000 ppm si notano turbe nell'equilibrio e irritazione severa agli occhi. Gli esami clinici e biologici praticati sui volontari esposti non hanno rivelato anomalie. L'acetato produce maggiore irritazione cutanea ed oculare per contatto diretto. Non vengono riportati effetti cronici sull'uomo (INCR, 2010).

### 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

### N-BUTYL ACETATE

A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

### XYLENE (MIXTURE OF ISOMERS)

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

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture:

> 20 mg/l

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

>2000 mg/kg

### XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3523 mg/kg Rat

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LD50 (Dermal) 4350 mg/kg Rabbit

LC50 (Inhalation) 26 mg/l/4h Rat

### TITANIUM DIOXIDE

LD50 (Oral) > 10000 mg/kg Rat

LD50 (Dermal) > 5000 mg/kg CONIGLIO

LC50 (Inhalation) > 6,8 mg/l/4h RATTO

### ACETATO DI 1-METIL-2-METOSSIETILE

LD50 (Oral) 8500 mg/kg Rat

LD50 (Dermal) > 3160 mg/kg Rat

LC50 (Inhalation) 6193 mg/m<sup>3</sup>/4h Ratto

### ISOBUTYL ALCOHOL

LD50 (Oral) 2460 mg/kg Rat

LD50 (Dermal) 2460 mg/kg Rabbit

LC50 (Inhalation) 18,18 mg/l/4h Rat

### QUARTZ

LD50 (Oral) > 500 mg/kg

### ETHYLBENZENE

LD50 (Oral) 3500 mg/kg Rat

LD50 (Dermal) 15354 mg/kg Rabbit

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

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

LD50 (Oral) 3002 mg/kg Rat

LD50 (Dermal) > 1875 mg/kg RATTO

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### 1-METOSI-2-PROPANOLO

LD50 (Oral) 5300 mg/kg Rat

LD50 (Dermal) 13000 mg/kg Rabbit

LC50 (Inhalation) 54,6 mg/l/4h Rat

### FORMALDEHYDE

LD50 (Oral) 100 mg/kg Rat

LD50 (Dermal) 270 mg/kg Rabbit

LC50 (Inhalation) 0,588 mg/l/4h Rat

### METILETILCHETONE

LD50 (Oral) 2737 mg/kg Rat

LD50 (Dermal) 6480 mg/kg Rabbit

LC50 (Inhalation) 23,5 mg/l/8h Rat

### METILISOBUTILCHETONE

LD50 (Oral) 2080 mg/kg Rat

LD50 (Dermal) > 16000 mg/kg Rabbit

LC50 (Inhalation) > 8,2 mg/l/4h Rat

### N-BUTYL ACETATE

LD50 (Oral) > 6400 mg/kg Rat

LD50 (Dermal) > 5000 mg/kg Rabbit

LC50 (Inhalation) 21,1 mg/l/4h Rat

### RESINA EPOSSIDICA (BISFENOLO A EPICLORIDRINA) p.m. > 700

LD50 (Oral) > 2000 mg/kg RATTO

LD50 (Dermal) > 2000 mg/kg RATTO

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### REAZIONE DI MASSA DELL'ETILBENZENE E DELLO XILENE

LD50 (Oral) > 3500 mg/kg RAT

LD50 (Dermal) > 4350 mg/kg RAT

LC50 (Inhalation) > 29,08 mg/l/4h RAT

### XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3500 mg/kg Rat

LD50 (Dermal) 4350 mg/kg Rabbit

LC50 (Inhalation) 26 mg/l/4h Rat

### PRODOTTO DI REAZIONE: BISFENOLO-A-EPICLORIDRINA; RESINE EPOSSIDICHE (PESO MOLECOLARE MEDIO >1100)

LD50 (Oral) > 2000 mg/kg ratto

Vinyl chloride copolymère

LD50 (Oral) > 2000 mg/kg RATTO

### SKIN CORROSION / IRRITATION

Causes skin irritation

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

### XYLENE (MIXTURE OF ISOMERS)

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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".

### 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

Does not meet the classification criteria for this hazard class

### STOT - SINGLE EXPOSURE

May cause respiratory irritation

### 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 Viscosity: >20,5 mm<sup>2</sup>/sec (40°C)

## SECTION 12. Ecological information

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

### 12.1. Toxicity

#### XYLENE (MIXTURE OF ISOMERS)

LC50 - for Fish > 4,2 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea > 2,93 mg/l/48h Daphnia Magna

#### TALC

LC50 - for Fish > 89,581 g/l/96h 89.581 - 110 g/L

#### TITANIUM DIOXIDE

LC50 - for Fish > 1100 µg/L/96

EC50 - for Crustacea > 103,9 mg/l/48h

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

#### ACETATO DI 1-METIL-2-METOSSITILE

LC50 - for Fish > 100 mg/l/96h Oncorhynchus mykiss

EC50 - for Crustacea > 408 mg/l/48h Daphnia magna

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

Chronic NOEC for Fish 47,5 mg/l Oncothynchus mykiss

Chronic NOEC for Crustacea > 99 mg/l Daphnia magna

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Chronic NOEC for Algae / Aquatic Plants	> 999 mg/l Selenastrum capricornutum
ISOBUTYL ALCOHOL	
LC50 - for Fish	> 1,43 mg/l/96h Pimephales promelas
EC50 - for Crustacea	> 1,1 mg/l/48h Daphnia pulex
EC50 - for Algae / Aquatic Plants	> 3,48 mg/l/72h DAFNIE
ETHYLBENZENE	
LC50 - for Fish	> 4,2 mg/l/96h 4.2 - 5.1 mg/L
EC50 - for Crustacea	> 1,8 mg/l/48h 1.8 - 2.4 mg/L
EC50 - for Algae / Aquatic Plants	> 4,9 mg/l/72h 4.9 - 5.4 mg/L
4-HYDROXY-4-METHYLPENTAN-2-ONE	
LC50 - for Fish	> 100 mg/l/96h ORYZIAS LATIPES
EC50 - for Crustacea	> 1000 mg/l/48h DAFNIA
EC50 - for Algae / Aquatic Plants	> 1000 mg/l/72h PSEUDOKIRCHNERIELLA SUBCAPITATA
FORMALDEHYDE	
LC50 - for Fish	> 6,7 mg/l/96h
EC50 - for Crustacea	> 5,8 mg/l/48h DAFNIE
EC50 - for Algae / Aquatic Plants	> 5,67 mg/l/72h
METILETILCHETONE	
LC50 - for Fish	> 2,993 mg/l/96h Pimephales promelas
EC50 - for Crustacea	> 508 mg/l/48h Daphnia Magna
METILISOBUTILCHETONE	
LC50 - for Fish	> 179 mg/l/96h
EC50 - for Crustacea	> 200 mg/l/48h
N-BUTYL ACETATE	
LC50 - for Fish	> 18 mg/l/96h
EC50 - for Crustacea	> 32 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 246 mg/l/72h
REAZIONE DI MASSA DELL'ETILBENZENE E DELLO XILENE	
LC50 - for Fish	> 2,6 mg/l/96h 2.6 - 8.4
EC50 - for Algae / Aquatic Plants	> 4,6 mg/l/72h 4.6 - 4.9
XYLENE (MIXTURE OF ISOMERS)	
LC50 - for Fish	> 4,2 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	> 2,93 mg/l/48h Daphnia Magna
PRODOTTO DI REAZIONE:BISFENOLO-A-	

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EPICLORIDRINA;RESINE EPOSSIDICHE  
(PESO MOLECOLARE MEDIO >1100)

EC50 - for Crustacea > 2 mg/l/48h

Oleic acid, compound with (Z)-N-octadec-9-  
enylpropane-1,3-diamine (2:1)

LC50 - for Fish > 1,34 mg/l/96h

EC50 - for Algae / Aquatic Plants > 410 µg/L

EC10 for Crustacea > 1,35 mg/l/21d

EC10 for Algae / Aquatic Plants > 323 µg/L 72 h

### 12.2. Persistence and degradability

XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Rapidly degradable

TALC

Solubility in water < 0,1 mg/l

TITANIUM DIOXIDE

Solubility in water < 0,001 mg/l

Degradability: information not available

ACETATO DI 1-METIL-2-METOSSIETILE

Solubility in water > 10000 mg/l

Rapidly degradable

ISOBUTYL ALCOHOL

Solubility in water > 70 g/l

Rapidly degradable

ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

4-HYDROXY-4-METHYLPENTAN-2-ONE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

1-METOSSIE-2-PROPANOLO

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

FORMALDEHYDE

Solubility in water 55000 mg/l

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Rapidly degradable

### METILETILCHETONE

Solubility in water > 10000 mg/l

Rapidly degradable

### METILISOBUTILCHETONE

Solubility in water > 14,1 g/l

Degradability: information not available

Rapidly degradable

### N-BUTYL ACETATE

Solubility in water 5.3 - 14 g/L @ 20 °C mg/l

Rapidly degradable

### REAZIONE DI MASSA DELL'ETILBENZENE E DELLO XILENE

Solubility in water > 165,8 mg/l

Rapidly degradable

### XYLENE (MIXTURE OF ISOMERS)

Solubility in water 100 - 1000 mg/l

Degradability: information not available

### PRODOTTO DI REAZIONE: BISFENOLO-A- EPICLORIDRINA; RESINE EPOSSIDICHE (PESO MOLECOLARE MEDIO >1100)

Solubility in water > 3 mg/l

## 12.3. Bioaccumulative potential

### XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12

BCF 25,9

### ACETATO DI 1-METIL-2-METOSSITILE

Partition coefficient: n-octanol/water 1,2

### ISOBUTYL ALCOHOL

Partition coefficient: n-octanol/water 1

### ETHYLBENZENE

Partition coefficient: n-octanol/water 3,6

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

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

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### 1-METOSI-2-PROPANOLO

Partition coefficient: n-octanol/water < 1

### FORMALDEHYDE

Partition coefficient: n-octanol/water 0,35

BCF < 1

### METILETILCHETONE

Partition coefficient: n-octanol/water 0,3

### METILISOBUTILCHETONE

Partition coefficient: n-octanol/water 1,9

### N-BUTYL ACETATE

Partition coefficient: n-octanol/water 2,3

BCF 15,3

### REAZIONE DI MASSA DELL'ETILBENZENE E DELLO XILENE

Partition coefficient: n-octanol/water > 3,16 Log Kow

### XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12

BCF 25,9

## 12.4. Mobility in soil

### XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

### ISOBUTYL ALCOHOL

Partition coefficient: soil/water 0,31

### FORMALDEHYDE

Partition coefficient: soil/water 1,202

### METILISOBUTILCHETONE

Partition coefficient: soil/water 2,008

### N-BUTYL ACETATE

Partition coefficient: soil/water < 3

### XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

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### 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  $\geq$  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.

## SECTION 14. Transport information

### 14.1. UN number

ADR / RID, IMDG, 1263  
IATA:

### 14.2. UN proper shipping name

ADR / RID: PAINT or PAINT RELATED MATERIAL  
IMDG: PAINT or PAINT RELATED MATERIAL  
IATA: PAINT or PAINT RELATED MATERIAL

### 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, II  
IATA:

### 14.5. Environmental hazards



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ADR / RID: NO  
IMDG: NO  
IATA: NO

### 14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 33	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
	Special Provision: 640D		
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 364
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 353
	Special Instructions:	A3, A72, A192	

### 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

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

Product  
Point 3 - 40

#### Contained substance

Point 72	FORMALDEHYDE Reg. no.: 01- 2119488953-20- XXXX
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#### Substances in Candidate List (Art. 59 REACH)

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

#### Substances subject to authorisation (Annex XIV REACH)

None

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Substances subject to exportation reporting pursuant to (EC) Reg. 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.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 2: Hazard to waters

### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

XYLENE (MIXTURE OF ISOMERS)

METILETILCHETONE

METILISOBUTILCHETONE

ISOBUTYL ALCOHOL

1-METOSI-2-PROPANOLO

N-BUTYL ACETATE

4-HYDROXY-4-METHYLPENTAN-2-ONE

ACETATO DI 1-METIL-2-METOSIETILE

XYLENE (MIXTURE OF ISOMERS)

## 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. 1B	Carcinogenicity, category 1B

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<b>Muta. 2</b>	Germ cell mutagenicity, category 2
<b>Repr. 2</b>	Reproductive toxicity, category 2
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>STOT RE 2</b>	Specific target organ toxicity - repeated exposure, category 2
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Skin Sens. 1B</b>	Skin sensitization, category 1B
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H225</b>	Highly flammable liquid and vapour.
<b>H226</b>	Flammable liquid and vapour.
<b>H350</b>	May cause cancer.
<b>H341</b>	Suspected of causing genetic defects.
<b>H361</b>	Suspected of damaging fertility or the unborn child.
<b>H301</b>	Toxic if swallowed.
<b>H311</b>	Toxic in contact with skin.
<b>H312</b>	Harmful in contact with skin.
<b>H332</b>	Harmful if inhaled.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H400</b>	Very toxic to aquatic life.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>EUH066</b>	Repeated exposure may cause skin dryness or cracking.

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule

## CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY

tel. +39 0584 383694 fax +39 0584 395182

www.cecchi.it info@cecchi.it



**NAUTILUS EPOXY PRIMER BIANCO Component A** - Safety Data Sheet - february 2021 - n°batch 028-BA - rev. 1/2021

- 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

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  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) 2018/1480 (XIII Atp. CLP)
  16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

### Note for users:

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

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

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

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

### 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.

### Changes to previous review:

The following sections were modified:

02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 15 / 16.