

# COLOROBBIA S.P.A.

LNP--000001 - Lustro Nero

Revision nr.24 Dated 11/12/2017 First compilation Printed on 13/12/2018 Page n. 1 / 19

Safety Data Sheet									
SECTION 1. Identification of the substance/mixture and of the company/undertaking									
1.1. Product identifier									
Code: Product name	LNP000001 Lustro Nero Prodotto metallo-organico per decorazione al terzo fuoco								
1.2. Relevant identified uses of the substance	e or mixture and uses advised against								
Intended use third firing decoration in the glass/ceramics/porcelain sectors									
1.3. Details of the supplier of the safety data	sheet								
Name Full address District and Country e-mail address of the competent person responsible for the Safety Data Sheet	COLOROBBIA S.P.A. Via Gramsci 14 50056 Montelupo F.no (FI) Italia Tel. +39 0571 7091 Fax +39 0571 709.850 ambientemsds@colorobbia.it								
1.4. Emergency telephone number									
For urgent inquiries refer to	CAV - Ospedale Pediatrico Bambino Gesù - Roma - tel. +39 06 68593726 Az. Ospedaliera Università Foggia - Foggia - tel. 800183459 Az. Ospedaliera - A. Cardarelli- Napoli- tel. +39 081 7472870 CAV - Policlinico Umberto I- Roma - tel. +39 06 49978000 CAV - Policlinico A. Gemelli - Roma - tel. +39 06 3054343 Az. Ospedaliera Careggi - U.O. Tossicologia Medica - Firenze - tel. +39 055 7947819 CAV - Centro Nazionale di Informazione Tossicologica - Pavia - tel. +39 0382 24444 Ospedale Niguarda Ca' Granda - Milano - tel. +39 02 66101029 Az. ospedaliera Papa Giovanni XXIII - Bergamo - tel. 800883300								

# **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 3	H226	Flammable liquid and vapour.
Acute toxicity, category 4	H302	Harmful if swallowed.
Acute toxicity, category 4	H332	Harmful if inhaled.
Aspiration hazard, category 1	H304	May be fatal if swallowed and enters airways.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure,	H335	May cause respiratory irritation.
category 3		
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H410	Very toxic to aquatic life with long lasting effects.
toxicity, category 1		

EN



Revision nr.24 Dated 11/12/2017 First compilation Printed on 13/12/2018 Page n. 2 / 19

# SECTION 2. Hazards identification ... / >>

# 2.2. Label elements

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

Hazard pictograms:



Signal words:	Danger
Hazard statements: H226 H302+H332 H304 H319 H315 H335 H317 H410 EUH208	Flammable liquid and vapour. Harmful if swallowed or if inhaled. May be fatal if swallowed and enters airways. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects. Contains: Malaleuca alternifolia extract L - alpha - pinen terpinolen (-)-Pin-2(10)-Ene Alpha-Pinene Eucaliptol May produce an allergic reaction.
Precautionary statements P210 P261 P280 P301+P310 P331 P370+P378	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust / fume / gas / mist / vapours / spray. Wear protective gloves / eye protection / face protection. IF SWALLOWED: immediately call a POISON CENTER / doctor / Do NOT induce vomiting. In case of fire: use to extinguish.

Contains:	TURPENTINE
	Anethole
	Eucalyptus Oil
	Eugenol
	ROSIN
	(R)-P-MENTHA-1,8-DIENE
	Eucaliptus globulus oil
	Linalool

#### 2.3. Other hazards

vPvB substances contained: Camphene

PBT substances contained: Camphene

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

# 3.1. Substances

Information not relevant



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

#### 3.2. Mixtures

Contains:			
Identification	<b>x</b> :	= Conc. %	Classification 1272/2008 (CLP)
TURPENTINE			
CAS	8006-64-2	10 ≤ x < 25	Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC	232-350-7		
INDEX	650-002-00-	-6	
Reg. no.	01-2119553	8060-53	
CYCLOHEXAN	NOL		
CAS	108-93-0	10 ≤ x < 20	Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335
EC	203-630-6	•	
INDEX	603-009-00-		
Reg. no. ROSIN		488-26-XXXX	
CAS	8050-09-7	9≤x< 25	Skin Sens. 1 H317
EC	232-475-7	7	
INDEX	650-015-00-	-/	
Eucalyptus Oi	8000-48-4	5≤x< 9	Flam. Lig. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411
CAS EC	0000-40-4	221-3	Fiam. Eld. 3 H220, ASp. 10X. 1 H304, 3Km 3ems. 1 H317, Aquatic Chronic 2 H411
INDEX			
Synthetic Can	nhor		
CAS	76-22-2	1≤x< 5	Flam. Sol. 1 H228, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335
EC	200-945-0		
INDEX			
Eugenol			
CAS	97-53-0	1 ≤ x < 5	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Sens. 1 H317
EC			
INDEX			
Decahydrona	ohthalene		
CAS	91-17-8	1 ≤ x < 2,5	Flam. Liq. 3 H226, Acute Tox. 3 H331, Asp. Tox. 1 H304, Skin Corr. 1B H314, Aquatic Chronic 1 H410 M=10
EC INDEX	202-046-9		
Reg. no. Linalool		127-37-XXXX	
CAS	78-70-6	1≤x< 5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317
EC	201-134-4		
INDEX	<u></u>		
Reg. no.		016-42-0000	
Methylcyclohe		1≤x< 5	Aguta Tay 4 U222
CAS EC	25639-42-3 247-152-6	12X 5	Acute Tox. 4 H332
INDEX	247-702-0		
Eucaliptus glo	bulus oil		
CAS	84625-32-1	1 ≤ x < 2,5	Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC	283-406-2	,-	······································
INDEX			
Reg. no.	2119978250	0-37-0000	
(R)-P-MENTHA	A-1,8-DIENE		
CAS	5989-27-5	1 ≤ x < 2,5	Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1 Aquatic Chronic 1 H410 M=1, Classification note according to Annex VI to the CLP Regulation: C
EC	227-813-5		
INDEX	601-029-00-	-7	
Reg. no.	01-2119529	223-47-000	
Anethole			
CAS	104-46-1	1≤x< 5	Skin Sens. 1 H317
EC	2032055		
INDEX			

Revision nr.24 Dated 11/12/2017 First compilation Printed on 13/12/2018 Page n. 3 / 19



Nero

Revision nr.24 Dated 11/12/2017 First compilation Printed on 13/12/2018 Page n. 4 / 19

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

**BENZYL ALCOHOL** 1≤x< 5 100-51-6 Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319 CAS EC 202-859-9 INDEX 603-057-00-5 Reg. no. 01-2119492630-38-0000 Eucaliptol CAS 470-82-6  $0.5 \le x < 1$ Flam. Lig. 3 H226, Skin Sens. 1 H317 EC 207-431-5 INDEX 01-2119967772-24-0000 Reg. no. Alpha-Pinene 80-56-8 CAS  $0.5 \le x < 1$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317 201-291-8 EC INDEX 01-2119519223-49-0000 Reg. no. CYCLOHEXANONE 108-94-1  $0.5 \le x < 1$ Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, CAS Eye Dam. 1 H318, Skin Irrit. 2 H315 EC 203-631-1 606-010-00-7 INDEX 01-2119453616-35 Reg. no. 4-METHYLPENTAN-2-ONE Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066 CAS 108-10-1  $0 \le x < 0,5$ FC 203-550-1 INDEX 606-004-00-4 01-2119473980-30 Reg. no. CYCLOHEXANE 110-82-7  $0.25 \le x \le 0.5$ Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, CAS Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 EC 203-806-2 INDEX 601-017-00-1 XYLENE (MIXTURE OF ISOMERS) CAS 1330-20-7  $0 \le x < 0,5$ Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Classification note according to Annex VI to the CLP Regulation: C EC 215-535-7 INDEX 601-022-00-9 Camphene CAS 79-92-5  $0.25 \le x \le 0.5$ Flam. Sol. 1 H228, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 EC 201-234-8 INDEX (-)-Pin-2(10)-Ene 127-91-3  $0 \le x < 0,5$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317 CAS EC 242-060-2 INDEX 1,2,3,4-tetrahydronaphthalene Carc. 2 H351, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 2 H411, EUH019 CAS 119-64-2  $0 \le x \le 0.5$ EC 204-340-2 INDEX 601-045-00-4 01-2119539463-37-XXXX Reg. no. terpinolen CAS 586-62-9  $0 \le x < 0,25$ Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 EC 209-578-0 INDEX 01-2119982325-32-XXXX Reg. no. L - alpha - pinen 7785-26-4  $0 \le x < 0,25$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, CAS Aquatic Chronic 1 H410 M=1 EC 232-077-3 INDFX Malaleuca alternifolia extract CAS 85085-48-9  $0 \le x < 0.25$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1B H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 FC INDEX



COLOROBBIA S.P.A.

LNP--000001 - Lustro Nero

Revision nr.24 Dated 11/12/2017 First compilation Printed on 13/12/2018 Page n. 5 / 19

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

#### ETHYL ACETATE

 CAS
 141-78-6
 0 ≤ x < 0,5</th>

 EC
 205-500-4
 INDEX
 607-022-00-5

 Reg. no.
 01-2119475103-46
 INDEX
 607-022-00-5

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

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. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately. INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

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

Information not available

# **SECTION 5. Firefighting measures**

#### 5.1. Extinguishing media

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

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

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

#### 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

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with ties around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of fume.

#### **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.



Revision nr.24 Dated 11/12/2017 First compilation Printed on 13/12/2018 Page n. 6 / 19

#### SECTION 6. Accidental release measures ..../>>

#### 6.2. Environmental precautions

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

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

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

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

#### 6.4. Reference to other sections

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

#### **SECTION 7. Handling and storage**

#### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

#### 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 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:

CZE	Česká Republika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany zdraví při práci
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
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 - Diaro da Republica I 26; 2012-02-06
SVN	Slovenija	Uradni list Republike Slovenije 15. 6. 2007
TUR	Türkiye	2000/39/EC sayılı Direktifin ekidir
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC;
		Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2018

# SECTION 8. Exposure controls/personal protection ..../>>

	TURPENTINE									
Threshold Limit Value										
Туре	Country	TWA/8h		STEL/15	nin					
		mg/m3	ppm	mg/m3	mg/m3 ppm					
TLV	CZE	300		800						
VLA	ESP	113	20							
VLEP	FRA	560	100							
WEL	GBR	566	100	850	150					
TLV	GRC	560	100	840	150					
NDS	POL	112		300						
TLV-ACGIH		111	20							

	CYCLOHEXANOL									
Threshold Limit Value										
Туре	Country	TWA/8h		STEL/15	STEL/15min					
		mg/m3	ppm	mg/m3	ppm					
TLV	CZE	200		400		SKIN				
MAK	DEU		50		50					
VLA	ESP	208	50			SKIN				
VLEP	FRA	200	50	300	75					
WEL	GBR	208	50							
TLV	GRC	200	50							
NDS	POL	10								
MV	SVN	210	50							
TLV-ACGIH		205	50							

Synthetic Camphor									
Threshold Limit Value									
Туре	Country	TWA/8h		STEL/15	STEL/15min				
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH		13	2	19	3				

	Decahydronaphthalene										
Threshold Limit Value											
Туре	Country	TWA/8h		STEL/15r	min						
		mg/m3	ppm	mg/m3	ppm						
TLV-ACGIH		100									

				Methylc	yclohexanol		
Threshold Limit \	/alue						
Туре	Country	TWA/8h		STEL/15	STEL/15min		
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH			50				

(R)-P-MENTHA-1,8-DIENE										
Threshold Limit Value										
Туре	Type Country TWA/8h STEL/15min									
		mg/m3	ppm	mg/m3	ppm					
AGW	DEU	110	20	220	40					
MAK	DEU	28	5	112	20	SKIN				

				BENZYL	L ALCOHOL			
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15	min			
		mg/m3	ppm	mg/m3	ppm			
TLV	CZE	40		80				
NDS	POL	240						

@EPY 9.4.5 - SDS 1004.11

EN

Revision nr.24 Dated 11/12/2017 First compilation Printed on 13/12/2018 Page n. 8 / 19

# SECTION 8. Exposure controls/personal protection ..../>>

				CYCLO	HEXANO	NE	
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15r	nin		
		mg/m3	ppm	mg/m3	ppm		
TLV	CZE	40		80		SKIN	
AGW	DEU	80	20	80	20	SKIN	
VLA	ESP	41	10	82	20	SKIN	
VLEP	FRA	40,8	10	81,6	20		
WEL	GBR	41	10	82	20	SKIN	
TLV	GRC	200	50	400	100		
VLEP	ITA	40,8	10	81,6	20	SKIN	
NDS	POL	40		80			
VLE	PRT	40,8	10	81,6	20	SKIN	
MV	SVN	40,8	10			SKIN	
ESD	TUR	40,8	10	81,6	20	SKIN	
OEL	EU	40,8	10	81,6	20	SKIN	
TLV-ACGIH		80	20	201	50		

# 4-METHYLPENTAN-2-ONE

Threshold Limit	Value							
Туре	Country	TWA/8h		STEL/15	nin			
		mg/m3	ppm	mg/m3	ppm			
TLV	CZE	80		200		SKIN		
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			
WEL	GBR	208	50	416	100	SKIN		
TLV	GRC	410	100	410	100			
VLEP	ITA	83	20	208	50			
NDS	POL	83		200				
VLE	PRT	83	20	208	50			
ESD	TUR	83	20	208	50			
OEL	EU	83	20	208	50			
TLV-ACGIH		82	20	307	75			

# CYCLOHEXANE

				CICL	OHEXANE			
Threshold Limit	Value							
Туре	Country	TWA/8h		STEL/15	min			
		mg/m3	ppm	mg/m3	ppm			
TLV	CZE	700		2000				
AGW	DEU	700	200	2800	800			
MAK	DEU	700	200	2800	800			
VLA	ESP	700	200					
VLEP	FRA	700	200	1300	375			
WEL	GBR	350	100	1050	300			
TLV	GRC	700	200					
VLEP	ITA	350	100					
NDS	POL	300		1000				
VLE	PRT	700	200					
MV	SVN	700	200					
OEL	EU	700	200					
TLV-ACGIH		344	100					

Revision nr.24 Dated 11/12/2017 First compilation Printed on 13/12/2018 Page n. 9 / 19

# SECTION 8. Exposure controls/personal protection ..../>>

# XYLENE (MIXTURE OF ISOMERS)

Type         Country         TWA/8h         STEL/15min           mg/m3         ppm         mg/m3         ppm           TLV         CZE         200         400         SKIN           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           WEL         GBR         220         50         441         100         TLV         GRC         435         100         650         150           VLEP         ITA         221         50         442         100         SKIN           VLEP         ITA         221         50         442         100         SKIN           NDS         POL         100          SKIN         SKIN           MV         SVN         221         50         SKIN         SKIN           ESD         TUR         221         50         SKIN         SKIN <th>Threshold Limit</th> <th>Value</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	Threshold Limit	Value							
TLV       CZE       200       400       SKIN         AGW       DEU       440       100       880       200       SKIN         MAK       DEU       440       100       880       200       SKIN         VLA       ESP       221       50       442       100       SKIN         VLA       ESP       221       50       442       100       SKIN         VLEP       FRA       221       50       441       100       SKIN         WEL       GBR       220       50       441       100       SKIN         VLEP       ITA       221       50       442       100       SKIN         VLEP       ITA       221       50       442       100       SKIN         VLEP       ITA       221       50       442       100       SKIN         NDS       POL       100       VLE       PRT       221       50       442       100       SKIN         MV       SVN       221       50       442       100       SKIN         ESD       TUR       221       50       442       100       SKIN         OEL	Туре	Country	TWA/8h		STEL/15	min			
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           WEL         GBR         220         50         441         100         TLV         GRC         435         100         650         150           VLEP         ITA         221         50         442         100         SKIN           VLEP         ITA         221         50         442         100         SKIN           VLEP         ITA         221         50         442         100         SKIN           NDS         POL         100         SKIN         SVIN         221         50         SKIN           MV         SVN         221         50         442         100         SKIN           ESD         TUR         221         50         442         100         SKIN           OEL         EU         221         50<			mg/m3	ppm	mg/m3	ppm			
MAK         DEU         440         100         880         200         SKIN           VLA         ESP         221         50         442         100         SKIN           VLEP         FRA         221         50         442         100         SKIN           WEL         GBR         220         50         441         100         TLV           TLV         GRC         435         100         650         150         TLV         VLEP         ITA         221         50         442         100         SKIN           VLEP         ITA         221         50         442         100         SKIN         SKIN           VLE         PRT         221         50         442         100         SKIN           MV         SVN         221         50         442         100         SKIN           MV         SVN         221         50         442         100         SKIN           ESD         TUR         221         50         442         100         SKIN           OEL         EU         221         50         442         100         SKIN	TLV	CZE	200		400		SKIN		
VLA         ESP         221         50         442         100         SKIN           VLEP         FRA         221         50         442         100         SKIN           WEL         GBR         220         50         441         100            TLV         GRC         435         100         650         150            VLEP         ITA         221         50         442         100         SKIN           NDS         POL         100                VLE         PRT         221         50         442         100         SKIN           NDS         POL         100                VLE         PRT         221         50         442         100         SKIN            MV         SVN         221         50         442         100         SKIN            ESD         TUR         221         50         442         100         SKIN            OEL         EU         221         50         442         100         SKIN	AGW	DEU	440	100	880	200	SKIN		
VLEP         FRA         221         50         442         100         SKIN           WEL         GBR         220         50         441         100           TLV         GRC         435         100         650         150           VLEP         ITA         221         50         442         100         SKIN           NDS         POL         100                VLE         PRT         221         50         442         100         SKIN           MV         SVN         221         50         442         100         SKIN           ESD         TUR         221         50         442         100         SKIN           OEL         EU         221         50         442         100         SKIN	MAK	DEU	440	100	880	200	SKIN		
WEL         GBR         220         50         441         100           TLV         GRC         435         100         650         150           VLEP         ITA         221         50         442         100         SKIN           NDS         POL         100              VLE         PRT         221         50         442         100         SKIN           MV         SVN         221         50         50         SKIN           ESD         TUR         221         50         442         100         SKIN           OEL         EU         221         50         442         100         SKIN	VLA	ESP	221	50	442	100	SKIN		
TLV         GRC         435         100         650         150           VLEP         ITA         221         50         442         100         SKIN           NDS         POL         100	VLEP	FRA	221	50	442	100	SKIN		
VLEP         ITA         221         50         442         100         SKIN           NDS         POL         100	WEL	GBR	220	50	441	100			
NDS         POL         100           VLE         PRT         221         50         442         100         SKIN           MV         SVN         221         50         SKIN           ESD         TUR         221         50         SKIN           OEL         EU         221         50         442         100         SKIN	TLV	GRC	435	100	650	150			
VLE         PRT         221         50         442         100         SKIN           MV         SVN         221         50         SKIN           ESD         TUR         221         50         SKIN           OEL         EU         221         50         442         100         SKIN	VLEP	ITA	221	50	442	100	SKIN		
MV         SVN         221         50         SKIN           ESD         TUR         221         50         442         100         SKIN           OEL         EU         221         50         442         100         SKIN	NDS	POL	100						
ESD         TUR         221         50         442         100         SKIN           OEL         EU         221         50         442         100         SKIN	VLE	PRT	221	50	442	100	SKIN		
OEL EU 221 50 442 100 SKIN	MV	SVN	221	50			SKIN		
	ESD	TUR	221	50	442	100	SKIN		
TLV-ACGIH 434 100 651 150	OEL	EU	221	50	442	100	SKIN		
	TLV-ACGIH		434	100	651	150			

				1,2,3,4-tetrahy	/dronaphthalene			
Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15r	nin			
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		50						

				ETHYL	ACETATE				
Threshold Limit Va	lue								
Туре	Country	TWA/8h		STEL/15m	nin				
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	700		900					
AGW	DEU	1500	400	3000	800				
MAK	DEU	1500	400	3000	800				
VLA	ESP	1460	400						
VLEP	FRA	1400	400						
WEL	GBR		200		400				
TLV	GRC	1400	400						
NDS	POL	200		600					
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
Predicted no-effect	t concentra	ation - PNEC	:						
Normal value in f	fresh water						0,26	mg/l	
Normal value in r	marine wate	er					0,026	mg/l	
Normal value for	fresh water	sediment					1,25	mg/kg	
Normal value for	marine wat	er sediment					0,125	mg/kg	
Normal value of S	STP microo	rganisms					650	mg/l	
Normal value for	the food ch	ain (seconda	ary poisoning	g)			0,2	g/Kg	
Normal value for	the terrestr	ial compartm	ient				0,24	mg/kg	
Health - Derived no	o-effect leve	el - DNEL / [	DMEL						
		cts on consu	mers			Effects on work	ers		
Route of exposur	re Acut	te Acu	te	Chronic local	Chronic	Acute local	Acute	Chronic	Chronic
	loca	l syst	emic		systemic		systemic	local	systemic
Oral				VND	4,5 mg/kg				
Inhalation	734	734		VND	367	1468	1468	734	734
	mg/ı	m3 mg/	m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin				VND	37 mg/kg			VND	63 mg/kg

Legend:

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

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

#### 8.2. Exposure controls

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

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



Revision nr.24 Dated 11/12/2017 First compilation Printed on 13/12/2018 Page n. 10 / 19

# SECTION 8. Exposure controls/personal protection ..../>>

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 Directive 89/686/EEC 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).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

RESPIRATORY PROTECTION

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

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

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

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

°C

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

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

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

Appearance	liquid
Colour	Not available
Odour	characteristic
Odour threshold	Not available
pН	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	34 T≤39
Evaporation Rate	Not available
Flammability of solids and gases	Not available
Lower inflammability limit	Not applicable
Upper inflammability limit	Not applicable
Lower explosive limit	Not applicable
Upper explosive limit	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available

#### 9.2. Other information

VOC (Directive 2010/75/EC) :

20,24 %



# COLOROBBIA S.P.A.

LNP--000001 - Lustro Nero

Revision nr.24 Dated 11/12/2017 First compilation Printed on 13/12/2018 Page n. 11 / 19

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

The product may react exothermically on contact with strong oxidising or reducing agents, strong acids or bases.

TURPENTINE Dissolves rubber.

BENZYL ALCOHOL

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

CYCLOHEXANONE Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

#### 4-METHYLPENTAN-2-ONE

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

ETHYL ACETATE Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

#### 10.2. Chemical stability

Excessively high temperatures can cause thermal decomposition.

#### 10.3. Possibility of hazardous reactions

See paragraph 10.1.

#### TURPENTINE

Reacts violently with: strong oxidising agents, chlorine. On contact with: tin chloride. Fire hazard. Dissolves rubber. Develops heat on contact with: calcium hypochlorite, chromium trioxide, chromium oxychloride, tin (IV) chloride. Risk of explosion on contact with: nitric acid, fluorine.

In oxygen atmospheres it generates explosive peroxides.

#### CYCLOHEXANOL

Risk of explosion on contact with: nitric acid,strong oxidising agents.May react dangerously with: alkaline metals,chromium trioxide.Forms explosive mixtures with: air.

#### BENZYL ALCOHOL

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

#### CYCLOHEXANONE

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures with: air.

#### 4-METHYLPENTAN-2-ONE

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

#### CYCLOHEXANE

May react violently with: strong oxidants, liquid nitric oxide. 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.

#### ETHYL ACETATE

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

#### 10.4. Conditions to avoid

Avoid overheating.



#### SECTION 10. Stability and reactivity ..../>>

CYCLOHEXANOL

Avoid exposure to: sources of heat, naked flames.

BENZYL ALCOHOL Avoid exposure to: air,sources of heat,naked flames.

### CYCLOHEXANONE

Avoid exposure to: sources of heat, naked flames.

4-METHYLPENTAN-2-ONE Avoid exposure to: sources of heat.

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

#### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

#### CYCLOHEXANOL

Incompatible with: strong oxidants.Incompatible materials: plastic materials.

#### BENZYL ALCOHOL

Incompatible with: sulphuric acid, oxidising substances, aluminium.

#### 4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

#### CYCLOHEXANE

Incompatible materials: natural rubbers, neoprene, polyvinyl chloride, polyethylene.

#### ETHYL ACETATE

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

#### 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.

#### TURPENTINE

May develop: acyclic terpenes,monocyclic terpenes,hydroterpenes,pyrones,cymenes.

# **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.

Eugenol Informazioni riferite all'eugenolo: LD50 orale ratto 2650 mg/Kg LD50 dermale coniglio 5000 mg/Kg.

1,2,3,4-tetrahydronaphthalene Informazioni riferite al 1,2,3,4-tetraidronaftalene: LD50 orale ratto : 2860 mg/Kg LD50 pelle coniglio: 16710 mg/Kg Pelle : moderatamente irritante Non sensibilizzante Occhi : non irritante.

#### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure



Revision nr.24 Dated 11/12/2017 First compilation Printed on 13/12/2018 Page n. 13 / 19

# SECTION 11. Toxicological information ... / >>

XYLENE (MIXTURE OF ISOMERS) WORKERS: inhalation; contact with the skin. POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

#### CYCLOHEXANE

WORKERS: inhalation; contact with the skin.

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

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

# XYLENE (MIXTURE OF ISOMERS)

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

#### CYCLOHEXANE

Irritating for the skin and mucous membranes, and may be absorbed by the skin; nerve damage can occur at high doses and is largely due to the cyclohexanone, its metabolite.

#### Interactive effects

#### XYLENE (MIXTURE OF ISOMERS)

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

#### CYCLOHEXANE

The substance may enhance the effects of agents such as tri-ortho-cresyl phosphate (TOCP).

#### ACUTE TOXICITY

LC50 (Inhalation) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture:	17,14 mg/l 877 mg/kg >2000 mg/kg
XYLENE (MIXTURE OF ISOMERS) LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)	3523 mg/kg Rat 4350 mg/kg Rabbit 26 mg/l/4h Rat
TURPENTINE LD50 (Oral)	5760 mg/kg Rat
CYCLOHEXANE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)	> 5000 mg/kg Rat > 2000 mg/kg Rabbit 13,9 mg/l/4h Rat
BENZYL ALCOHOL LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)	1230 mg/kg Rat 2000 mg/kg Rabbit > 4,1 mg/l/4h Rat
4-METHYLPENTAN-2-ONE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)	2080 mg/kg Rat > 16000 mg/kg Rabbit > 8,2 mg/l/4h Rat
SKIN CORROSION / IRRITATION	

Causes skin irritation

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

#### SECTION 11. Toxicological information ... / >>

#### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin May produce an allergic reaction. Contains: Malaleuca alternifolia extract L - alpha - pinen terpinolen (-)-Pin-2(10)-Ene Alpha-Pinene Eucaliptol

#### 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) 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".

# 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

Toxic for aspiration

# **SECTION 12. Ecological information**

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

#### 12.1. Toxicity

(R)-P-MENTHA-1,8-DIENE LC50 - for Fish EC50 - for Crustacea

CYCLOHEXANE LC50 - for Fish EC50 - for Crustacea EC50 - for Algae / Aquatic Plants 35 mg/l/96h Oncorhynchus mykiss 69,6 mg/l/48h Daphnia pulex

4,53 mg/l/96h Pimephales promelas 3,89 mg/l/48h Daphnia magna 32,7 mg/l/72h Chlorella vulgaris

#### 12.2. Persistence and degradability

Petroleum distillates, charcoal, vegetable extracts: they are mixtures of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour on the environment depends on the concentration. In each case use, according to good working practices, avoiding disposal in the environment. As a rule, the product is poorly biodegradable. TURPENTINE

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



# SECTION 12. Ecological information ... / >>

XYLENE (MIXTURE OF ISOMERS) Solubility in water Degradability: information not available	100 - 1000 mg/l
TURPENTINE Solubility in water Rapidly degradable	0,1 - 100 mg/l
ROSIN Solubility in water Rapidly degradable	0,1 - 100 mg/l
(R)-P-MENTHA-1,8-DIENE Solubility in water Rapidly degradable	0,1 - 100 mg/l
CYCLOHEXANE Solubility in water Rapidly degradable	0,1 - 100 mg/l
CYCLOHEXANOL Solubility in water Rapidly degradable	36000 mg/l
BENZYL ALCOHOL Rapidly degradable	
4-METHYLPENTAN-2-ONE Solubility in water Rapidly degradable	> 10000 mg/l
CYCLOHEXANONE Solubility in water Rapidly degradable	0,1 - 100 mg/l
ETHYL ACETATE Solubility in water Rapidly degradable	> 10000 mg/l
12.3. Bioaccumulative potential	
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: n-octanol/water BCF	3,12 25,9
ROSIN Partition coefficient: n-octanol/water BCF	3 56,23
(R)-P-MENTHA-1,8-DIENE Partition coefficient: n-octanol/water BCF	4,38 1022
CYCLOHEXANE Partition coefficient: n-octanol/water	3,44
CYCLOHEXANOL Partition coefficient: n-octanol/water	1,25
BENZYL ALCOHOL Partition coefficient: n-octanol/water	1,1
4-METHYLPENTAN-2-ONE Partition coefficient: n-octanol/water	1,9

ΕN

# SECTION 12. Ecological information ... / >>

CYCLOHEXANONE Partition coefficient: n-octanol/water	0,86
ETHYL ACETATE Partition coefficient: n-octanol/water BCF	0,68 30
12.4. Mobility in soil	
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: soil/water	2,73
ROSIN Partition coefficient: soil/water	3,7289
CYCLOHEXANE Partition coefficient: soil/water	2,89
4-METHYLPENTAN-2-ONE Partition coefficient: soil/water	2,008
CYCLOHEXANONE Partition coefficient: soil/water	1,18

# 12.5. Results of PBT and vPvB assessment

vPvB substances contained:
Camphene

PBT substances contained: Camphene

#### 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, IATA: 1263

#### 14.2. UN proper shipping name

ADR / RID:	PAINT or PAINT RELATED MATERIAL
IMDG:	PAINT or PAINT RELATED MATERIAL (TURPENTINE)
IATA:	PAINT or PAINT RELATED MATERIAL



Revision nr.24 Dated 11/12/2017 First compilation Printed on 13/12/2018 Page n. 17 / 19

SECTION 14. Transport information ... / >>

# 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:	Environmentally Hazardous
------------	---------------------------

IMDG:

Marine Pollutant

NO



IATA:

For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

#### 14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 30 Special Provision: -	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
IMDG: IATA:	EMS: F-E, <u>S-E</u> Cargo:	Limited Quantities: 5 L Maximum quantity: 220 L	Packaging instructions: 366
	Pass.:	Maximum quantity: 60 L	Packaging instructions: 355
	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-E1

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

TTOULOL		
Point	3 - 40	
Contained substance		
Point	57	CY

CYCLOHEXANE

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

# None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

# None

Substances subject to the Rotterdam Convention: None



Revision nr.24 Dated 11/12/2017 First compilation Printed on 13/12/2018 Page n. 18 / 19

#### SECTION 15. Regulatory information ... / >>

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

No chemical safety assessment has been processed for the mixture and the substances it contains.

# **SECTION 16. Other information**

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

Flam. Liq. 2 Flam. Liq. 3 Flam. Sol. 1 Carc. 2 Acute Tox. 3 Acute Tox. 4 Asp. Tox. 1 Skin Corr. 1B Eye Dam. 1 Eye Irrit. 2 SKin Irrit. 2 STOT SE 3 Skin Sens. 1 Skin Sens. 1B Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 H225 H226 H228	Flammable liquid, category 2 Flammable liquid, category 3 Flammable solid, category 1 Carcinogenicity, category 2 Acute toxicity, category 2 Acute toxicity, category 4 Aspiration hazard, category 1 Skin corrosion, category 1 Eye irritation, category 2 Skin irritation, category 2 Specific target organ toxicity - single exposure, category 3 Skin sensitization, category 1 Skin sensitization, category 1 Skin sensitization, category 1 B Hazardous to the aquatic environment, acute toxicity, category 1 Hazardous to the aquatic environment, chronic toxicity, category 1 Hazardous to the aquatic environment, chronic toxicity, category 2 Highly flammable liquid and vapour. Flammable solid.
H351 H331	Suspected of causing cancer. Toxic if inhaled.
H331 H302+H332	l oxic if innaled. Harmful if swallowed or if inhaled.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H400 H410	Very toxic to aquatic life.
H410 H411	Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects.
EUH019	May form explosive peroxides.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUHUOO	Repeated exposure may cause skin dryness of cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road

- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization



Revision nr.24 Dated 11/12/2017 First compilation Printed on 13/12/2018 Page n. 19 / 19

#### SECTION 16. Other information ... / >>

- INDEX NUMBER: Identifier in Annex VI of CLP- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

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- 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
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- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
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- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X 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.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 07 / 09 / 10 / 11 / 12 / 15.