

LBP--000021 - Lustro Bleu

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Safety Data Sheet								
SECTION 1. Identification of the s	substance/mixture and of the company/undertaking							
1.1. Product identifier								
Code: Product name	LBP000021 Lustro Bleu 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 s	sheet							
Name Full address District and Country	COLOROBBIA S.P.A. Via Gramsci 14 50056 Montelupo F.no (FI) Italia Tel. +39 0571 7091 Fax +39 0571 709.850							
e-mail address of the competent person responsible for the Safety Data Sheet	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 2	H225	Highly 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.
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		

#### 2.2. Label elements

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

Hazard pictograms:





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

Signal words:	Danger
Hazard statements:	
H225	Highly flammable liquid and vapour.
H302+H332	Harmful if swallowed or if inhaled.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains: Alpha-Pinene May produce an allergic reaction.

Precautionary statements:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P280	Wear protective gloves / eye protection / face protection.
P301+P310	IF SWALLOWED: immediately call a POISON CENTER / doctor /
P331	Do NOT induce vomiting.
P370+P378	In case of fire: use to extinguish.

TURPENTINE
Anethole
Eucalyptus Oil
ROSIN
(R)-P-MENTHA-1,8-DIENE

#### 2.3. Other hazards

vPvB substances contained: Camphene

PBT substances contained: Camphene

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

### 3.1. Substances

Information not relevant

#### 3.2. Mixtures

Contains:

Identification	x = 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 INDEX Reg. no. <b>ROSIN</b>	232-350-7 650-002-00-6 01-2119553060-53	
CAS EC INDEX	8050-09-7 9 ≤ x < 25 232-475-7 650-015-00-7	Skin Sens. 1 H317
CYCLOHEXAN		
CAS EC INDEX Eucalyptus Oi	108-93-0 5 ≤ x < 9 203-630-6 603-009-00-3	Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335
CAS EC INDEX	<i>8000-48-4</i> 5 ≤ x < 9	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411



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

Synthetic Ca	mphor		
CAS	76-22-2	1≤x< 5	Aerosol 1 H222, Flam. Liq. 2 H225, Acute Tox. 4 H332, STOT SE 2 H371
EC	200-945-0		······································
INDEX			
CYCLOHEXA	NE		
CAS	110-82-7	1 ≤ x < 2,5	Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336,
	202 806 2		Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC	203-806-2	1	
NDEX	601-017-00	- 1	
<b>Decahydron</b> a CAS	91-17-8	1≤x< 2,5	Flam. Lig. 3 H226, Acute Tox. 3 H331, Asp. Tox. 1 H304, Skin Corr. 1B H314,
JAS	91-17-0	$1 \leq X \leq 2,5$	Aquatic Chronic 1 H410 M=10
EC	202-046-9		
INDEX			
Reg. no.	01-2119565	5127-37-XXXX	
Linalool			
CAS	78-70-6	1≤x< 5	Skin Irrit. 2 H315
EC	201-134-4		
INDEX			
R)-P-MENTH	IA-1,8-DIENE		
CAS	5989-27-5	1 ≤ x < 2,5	Flam. Liq. 3 H226, Asp. Tox. 1 H304, 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	
(YLENE (MI)	<b>KTURE OF IS</b>	OMERS)	
CAS	1330-20-7	1≤x< 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	
Anethole			
CAS	104-46-1	1 ≤ x < 5	Skin Sens. 1 H317
EC	2032055		
INDEX			
Alpha-Pinene	9		
CÁS	80-56-8	0,5 ≤ x < 1	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1 Aquatic Chronic 1 H410 M=1
EC	201-291-8		· · · · · · · · · · · · · · · · · · ·
INDEX			
	ydronaphtha	lene	
CAS	119-64-2	0,5 ≤ x < 1	Carc. 2 H351, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 2 H411, EUH019
EC	204-340-2	-,	
INDEX	601-045-00	)-4	
Reg. no.		9463-37-XXXX	
ETHYL ACE			
CAS	141-78-6	0 ≤ x < 0,5	Flam. Lig. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	205-500-4	,-	· · · · · · · · · · · · · · · · · · ·
INDEX	607-022-00	-5	
Reg. no.	01-2119475		
Camphene			
CAS	79-92-5	$0 \le x < 0,25$	Flam. Liq. 3 H226, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1,
	004 004 0		Aquatic Chronic 1 H410 M=1
EC	201-234-8		
		_	
	ENTAN-2-ONE		
	108-10-1	0 ≤ x < 0,5	Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066
CAS	000 550 4		
CAS EC	203-550-1		
CAS EC INDEX Reg. no.	203-550-1 606-004-00 01-2119473		

**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

EN



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#### SECTION 4. First aid measures ... / >>

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.

#### 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.



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# **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

				TUR	PENTINE			
Threshold Limit	Value							
Туре	Country	TWA/8h		STEL/15	STEL/15min			
		mg/m3	ppm	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					

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				CYCLC	HEXANOL		
Threshold Limit	Value			01010			
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				

				Synthet	ic Camphor
Threshold Limit	Value				
Туре	Country	TWA/8h		STEL/15r	min
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH		13	2		

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

	CYCLOHEXANE						
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15	1		
		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				

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

EN

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# XYLENE (MIXTURE OF ISOMERS)

Value							
Country	TWA/8h		STEL/15	min			
	mg/m3	ppm	mg/m3	ppm			
CZE	200		400		SKIN		
DEU	440	100	880	200	SKIN		
DEU	440	100	880	200	SKIN		
ESP	221	50	442	100	SKIN		
FRA	221	50	442	100	SKIN		
GBR	220	50	441	100			
GRC	435	100	650	150			
ITA	221	50	442	100	SKIN		
POL	100						
PRT	221	50	442	100	SKIN		
SVN	221	50			SKIN		
TUR	221	50	442	100	SKIN		
EU	221	50	442	100	SKIN		
	434	100	651	150			
	CZE DEU DEU ESP FRA GBR GRC ITA POL PRT SVN TUR	Country         TWA/8h           mg/m3           CZE         200           DEU         440           DEU         440           ESP         221           FRA         221           GBR         220           GRC         435           ITA         221           POL         100           PRT         221           SVN         221           TUR         221           EU         221	Country         TWA/8h           mg/m3         ppm           CZE         200           DEU         440         100           DEU         440         100           ESP         221         50           FRA         221         50           GBR         220         50           GRC         435         100           ITA         221         50           POL         100         9           PRT         221         50           SVN         221         50           TUR         221         50	Country         TWA/8h         STEL/15           mg/m3         ppm         mg/m3           CZE         200         400           DEU         440         100         880           DEU         440         100         880           ESP         221         50         442           FRA         221         50         442           GBR         220         50         441           GRC         435         100         650           ITA         221         50         442           POL         100             PRT         221         50         442           SVN         221         50         442           EU         221         50         442	Country         TWA/8h         STEL/15min           mg/m3         ppm         mg/m3         ppm           CZE         200         400           DEU         440         100         880         200           DEU         440         100         880         200           ESP         221         50         442         100           FRA         221         50         441         100           GBR         220         50         441         100           GRC         435         100         650         150           ITA         221         50         442         100           POL         100              PRT         221         50         442         100           SVN         221         50         442         100           EU         221         50         442         100	Country         TWA/8h         STEL/15min           mg/m3         ppm         mg/m3         ppm           CZE         200         400         SKIN           DEU         440         100         880         200         SKIN           DEU         440         100         880         200         SKIN           DEU         440         100         880         200         SKIN           ESP         221         50         442         100         SKIN           GBR         220         50         441         100         GRC         435         100         650         150           ITA         221         50         442         100         SKIN         SKIN           POL         100          SKIN         SKIN         SKIN         SKIN           SVN         221         50         442         100         SKIN           TUR         221         50         442         100         SKIN           EU         221         50         442         100         SKIN	Country         TWA/8h         STEL/15min           mg/m3         ppm         mg/m3         ppm           CZE         200         400         SKIN           DEU         440         100         880         200         SKIN           DEU         440         100         880         200         SKIN           DEU         440         100         880         200         SKIN           ESP         221         50         442         100         SKIN           GBR         220         50         441         100         GRC         435         100         650         150           ITA         221         50         442         100         SKIN         SKIN           POL         100         50         150         SKIN         SKIN         SVN         221         50         442         100         SKIN           PVL         100         SKIN         SKIN         SVN         221         50         442         100         SKIN           TUR         221         50         442         100         SKIN         SKIN         SKIN         SVN         221         50         442

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

ETHYL ACETATE									
Threshold Limit V		<b>T</b> 14/4/01		0751 (45	•				
Туре	Country	TWA/8h		STEL/15m					
<b>T</b> 1.57	075	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-effe	ct concentra	tion - PNEC							
Normal value in	fresh water						0,26	mg/l	
Normal value in	marine wate	r					0,026	mg/l	
Normal value for	or fresh water	sediment					1,25	mg/kg	
Normal value for	or marine wat	er sediment					0,125	mg/kg	
Normal value of	f STP microo	rganisms					650	mg/l	
Normal value for	or the food ch	ain (seconda	ry poisoning	)			0.2	g/Kg	
Normal value for				,			0,24	mg/kg	
Health - Derived r	no-effect leve	el - DNEL / D	MEL					0 0	
	Effe	cts on consur	ners			Effects on worke	rs		
Route of expos				Chronic local	Chronic	Acute local	Acute	Chronic	Chronic
	loca	syste	emic		systemic		systemic	local	systemic
Oral		- ,		VND	4,5		-,		-,
0101					mg/kg				
Inhalation	734	734		VND	367	1468	1468	734	734
	mg/r	n3 mg/r	n3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin			-	VND	37	5 -	5	VND	63
J					mg/kg				mg/kg

@EPY 9.4.5 - SDS 1004.11

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

#### 4-METHYLPENTAN-2-ONE

Threshold Limit	Value							
Туре	Country	TWA/8h		STEL/15	min			
		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			

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 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, 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.

# **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
рН	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available



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#### SECTION 9. Physical and chemical properties ... / >>

Flash point	22 T≤28
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
2. Other information	

#### 9.2. Other information

VOC (Directive 2010/75/EC) :

17,08 %

# 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.

#### ETHYL ACETATE

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

#### 4-METHYLPENTAN-2-ONE

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

#### 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.

#### 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.

#### 4-METHYLPENTAN-2-ONE

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

### EN

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

#### 10.4. Conditions to avoid

Avoid overheating.

#### CYCLOHEXANOL

Avoid exposure to: sources of heat, naked flames.

#### ETHYL ACETATE

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

#### 4-METHYLPENTAN-2-ONE

Avoid exposure to: sources of heat.

#### 10.5. Incompatible materials

Oxidising or reducing agents. Strong acids or bases.

#### CYCLOHEXANOL

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

#### 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.

#### 4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

#### 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.

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

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



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

#### 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.

> 20 mg/l > 5 mg/l 1471 mg/kg >2000 mg/kg

#### CYCLOHEXANE

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

#### ACUTE TOXICITY

LC50 (Inhalation - vapours) of the mixture:
LC50 (Inhalation - mists / powders) of the mixture:
LD50 (Oral) of the mixture:
LD50 (Dermal) of the mixture:
XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

TURPENTINE LD50 (Oral)

CYCLOHEXANE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

4-METHYLPENTAN-2-ONE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation) > 5000 mg/kg Rat
 > 2000 mg/kg Rabbit
 13,9 mg/l/4h Rat

3523 mg/kg Rat

5760 mg/kg Rat

4350 mg/kg Rabbit 26 mg/l/4h Rat

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

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin May produce an allergic reaction. Contains: Alpha-Pinene

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class



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

#### 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

Does not meet the classification criteria for this hazard class

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

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



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

CYCLOHEXANOL Solubility in water Rapidly degradable	36000 mg/l
4-METHYLPENTAN-2-ONE Solubility in water Rapidly degradable	> 10000 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
4-METHYLPENTAN-2-ONE Partition coefficient: n-octanol/water	1,9
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
12.5. Results of PBT and vPvB assessment	
vPvB substances contained: Camphene	
PBT substances contained: Camphene	

#### 12.6. Other adverse effects

Information not available



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## **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

#### 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: П

#### 14.5. Environmental hazards

vironmentally Hazardous

NO

IMDG: Marine Pollutant



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: 33 Special Provision: 640D	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
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



H314

H319

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SECTION 15. Regula	atory information
15.1. Safety, health and env	ironmental regulations/legislation specific for the substance or mixture
Seveso Category - Directiv	ve 2012/18/EC: P5c-E1
Restrictions relating to the Product	product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006
Point	3 - 40
Contained substance Point	57 CYCLOHEXANE
Substances in Candidate I On the basis of available c	List (Art. 59 REACH) lata, the product does not contain any SVHC in percentage greater than 0,1%.
Substances subject to auth	norisation (Annex XIV REACH)
Substances subject to exp None	ortation reporting pursuant to (EC) Reg. 649/2012:
Substances subject to the None	Rotterdam Convention:
Substances subject to the	Stockholm Convention:
None	
<b>15.2. Chemical safety asses</b> No chemical safety assess	ment has been processed for the mixture and the substances it contains.
SECTION 16. Other Text of hazard (H) indication	information ons mentioned in section 2-3 of the sheet:
Aerosol 1	Aerosol, category 1
Flam. Liq. 2 Flam. Liq. 3	Flammable liquid, category 2 Flammable liquid, category 3
Carc. 2	Carcinogenicity, category 2
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
Skin Corr. 1B	Skin corrosion, category 1B
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1 STOT SE 2	Skin sensitization, category 1 Specific target organ toxicity - single exposure, category 2
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H351 H331	Suspected of causing cancer.
H331 H302+H332	Toxic if inhaled. 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.
H31/	Causes severe skin hurs and eve damage

Causes severe skin burns and eye damage.

Causes serious eye irritation.



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

H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH019	May form explosive peroxides.
EUH066	Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- 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
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- 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:

@EPY 9.4.5 - SDS 1004.11



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

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: 09.