

## LJP--000001 - Lustro Giallo Ocra

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# **Safety Data Sheet**

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

#### 1.1. Product identifier

Code: LJP--000001
Product name Lustro Giallo Ocra

Prodotto metallo-organico per decorazione al terzo fuoco

1.2. Relevant identified uses of the substance 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 COLOROBBIA S.P.A.
Full address Via Gramsci 14
District and Country 50056 Montelupo F.no

inoliterapo i .iio

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

(FI)

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.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
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.
Serious eye damage, category 1	H318	Causes serious eye damage.
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:

H226 Flammable liquid and vapour. H351 Suspected of causing cancer. H302+H332 Harmful if swallowed or if inhaled.

H304 May be fatal if swallowed and enters airways.

Causes serious eye damage. H318 H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

**EUH208** Alpha-Pinene Contains: May produce an allergic reaction.

Precautionary statements:

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

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P310 Immediately call a POISON CENTER / doctor / . . .

P331 Do NOT induce vomiting.

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

Contains: DIESEL OIL - not specified

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

**TURPENTINE** 

Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, CAS 8006-64-2  $10 \le x < 25$ 

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. 01-2119553060-53

ROSIN

8050-09-7 CAS  $9 \le x < 25$ 

EC 232-475-7

INDEX 650-015-00-7

**CYCLOHEXANOL** 

108-93-0  $5 \le x < 9$ CAS

EC 203-630-6 INDEX 603-009-00-3 Skin Sens. 1 H317

Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335

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

**Eucalyptus Oil** 

CAS 8000-48-4 5 ≤ x < 9 Flam. Lig. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC

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**BENZYL ALCOHOL** 

100-51-6 1 ≤ x < 5 Acute Tox. 4 H302. Acute Tox. 4 H332 CAS

EC 202-859-9 INDEX 603-057-00-5

01-2119492630-38-0000 Reg. no.

Synthetic Camphor

CAS 76-22-2 Aerosol 1 H222, Flam. Liq. 2 H225, Acute Tox. 4 H332, STOT SE 2 H371

EC 200-945-0

**INDEX** 

**CHROME THREE (ETYL ESANOATE)** 

3444-17-5 Skin Irrit. 2 H315 CAS  $1 \le x < 5$ 

222-357-3 FC.

INDEX

Anethole

CAS 104-46-1 1 ≤ x < 5 Skin Sens. 1 H317

2032055 FC

INDEX

Decahydronaphthalene

91-17-8 Flam. Liq. 3 H226, Acute Tox. 3 H331, Asp. Tox. 1 H304, Skin Corr. 1B H314,  $1 \le x < 2,5$ 

Aquatic Chronic 1 H410 M=10

FC 202-046-9

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Reg. no. 01-2119565127-37-XXXX

CYCLOHEXANONE

Flam. Lig. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, CAS 108-94-1  $1 \le x < 3$ 

Eye Dam. 1 H318, Skin Irrit. 2 H315

203-631-1 EC INDEX 606-010-00-7 Rea. no. 01-2119453616-35 **DIESEL OIL - not specified** 

CAS

68476-34-6 1 ≤ x < 5 Carc. 2 H351 FC

270-676-1 INDEX 649-227-00-2 (R)-P-MENTHA-1,8-DIENE

CAS 5989-27-5  $1 \le x < 2.5$ Flam. Lig. 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

**TOLUENE** 

CAS 108-88-3  $0 \le x < 0.5$ Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373,

Skin Irrit. 2 H315, STOT SE 3 H336

EC 203-625-9 INDFX 601-021-00-3

Alpha-Pinene

CAS 80-56-8  $0,25 \le x < 0,5$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1 201-291-8

EC INDEX

**XYLENE (MIXTURE OF ISOMERS)** 

Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, CAS 1330-20-7  $0 \le x < 0.5$ 

Classification note according to Annex VI to the CLP Regulation: C

215-535-7 FC **INDEX** 601-022-00-9

Camphene

CAS 79-92-5  $0 \le x < 0.25$ Flam. Liq. 3 H226, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1,

Aquatic Chronic 1 H410 M=1

EC 201-234-8

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

**ETHYL ACETATE** 

CAS 141-78-6  $0 \le x < 0.5$ 

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

EC 205-500-4 INDEX 607-022-00-5 Reg. no. 01-2119475103-46

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.



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#### 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

#### 6.4. Reference to other sections

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

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

### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. 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



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SECTION 8. Exposure controls/personal protection

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				TUR	PENTINE		
Threshold Limit	Value						
Туре	Country	TWA/8h		STEL/15r	nin		
		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				

				CYCLC	HEXANOL			
Threshold Limit \	/alue							
Type	Country	TWA/8h		STEL/15	min			
		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					

				BENZYI	L ALCOHOL
Threshold Lin	mit Value				
Type	Country	TWA/8h		STEL/15	min
		mg/m3	ppm	mg/m3	ppm
TLV	CZE	40		80	
NDS	POL	240			

				Synthetic Camphor
Threshold Lim	it Value			
Type	Country	TWA/8h		STEL/15min
		mg/m3	ppm	mg/m3 ppm
TI V-ACGIH		13	2	

				Decahydro	onaphthalene
<b>Threshold Limit</b>	Value				
Type	Country	TWA/8h		STEL/15r	min
		mg/m3	ppm	mg/m3	ppm
TLV-ACGIH		100			

				CYCLO	HEXANO	IE	
Threshold Limit \	/alue						
Туре	Country	TWA/8h		STEL/15r	min		
		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		



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				(R)-P-MEN	THA-1,8-E	DIENE	
Threshold Lim	it Value			,	ĺ		
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	

				ТО	LUENE		
Threshold Limit	Value						
Type	Country	TWA/8h		STEL/15	min		
		mg/m3	ppm	mg/m3	ppm		
TLV	CZE	200		500		SKIN	
AGW	DEU	190	50	760	200	SKIN	
MAK	DEU	190	50	760	200		
VLA	ESP	192	50	384	100	SKIN	
VLEP	FRA	76,8	20	384	100	SKIN	
WEL	GBR	191	50	384	100	SKIN	
TLV	GRC	192	50	384	100		
VLEP	ITA	192	50			SKIN	
NDS	POL	100		200			
VLE	PRT	192	50	384	100	SKIN	
OEL	EU	192	50	384	100	SKIN	
TLV-ACGIH		75,4	20				

			Х	YLENE (MIXT	JRE OF IS	OMERS)	
Threshold Limit	Value						
Type	Country	TWA/8h		STEL/15	min		
		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	
NDS	POL	100					
VLE	PRT	221	50	442	100	SKIN	
MV	SVN	221	50			SKIN	
ESD	TUR	221	50	442	100	SKIN	
OEL	EU	221	50	442	100	SKIN	
TLV-ACGIH		434	100	651	150		



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

				FTHY	ACETATE				
hreshold Limit V	alue			211112	AGETATE				
Туре	Country	TWA/8h		STEL/15m	STEL/15min				
, , , , , , , , , , , , , , , , , , ,	,	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-effec	ct concentra	ation - PNEC	;						
Normal value in			0,26	mg/l					
Normal value in			0,026	mg/l					
Normal value fo			1,25	mg/kg					
Normal value fo			0,125	mg/kg					
Normal value of STP microorganisms								mg/l	
Normal value for the food chain (secondary poisoning) 0,2								g/Kg	
Normal value fo							0,24	mg/kg	
lealth - Derived n									
		cts on consu				Effects on worker	-		
Route of exposu			• •	Chronic local		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/	m3 mg/	m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin				VND	37			VND	63
					mg/kg				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.

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.

Wear a hood visor or protective visor combined with airtight 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



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

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 Not available Odour threshold Not available рΗ Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Flash point 35 T≤39 Not available **Evaporation Rate** 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 Not available Vapour density Relative density Not available

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

#### 9.2. Other information

Solubility

VOC (Directive 2010/75/EC): 18,01 %

## **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.

insoluble in water

#### 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.

#### **TOLUENE**

Avoid exposure to: light.

#### 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.



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

#### **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.

#### TOLUENE

Risk of explosion on contact with: fuming sulphuric acid,nitric acid,silver perchlorate,nitrogen dioxide,non-metal halogenates,acetic acid,organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

#### 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.

#### **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.

#### 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.

#### 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.



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## **SECTION 11. Toxicological information**

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

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

#### 11.1. Information on 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.

**TOLUENE** 

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.

#### TOLUENE

Toxic effect on the central and peripheral nervous system with encephalopathy and polyneuritis; irritating for the skin, conjunctiva, cornea and respiratory apparatus.

### 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.

#### **TOLUENE**

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

#### ACUTE TOXICITY

LC50 (Inhalation - vapours) of the mixture: > 20 mg/l
LC50 (Inhalation - mists / powders) of the mixture: > 5 mg/l
LD50 (Oral) of the mixture: 1281 mg/kg
LD50 (Dermal) of the mixture: >2000 mg/kg

XYLENE (MIXTURE OF ISOMERS)

 LD50 (Oral)
 3523 mg/kg Rat

 LD50 (Dermal)
 4350 mg/kg Rabbit

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

TURPENTINE

LD50 (Oral) 5760 mg/kg Rat

**TOLUENE** 

 LD50 (Oral)
 5580 mg/kg Rat

 LD50 (Dermal)
 12124 mg/kg Rabbit

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



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

BENZYL ALCOHOL LD50 (Oral) LD50 (Dermal) LC50 (Inhalation)

1230 mg/kg Rat 2000 mg/kg Rabbit > 4,1 mg/l/4h Rat

#### SKIN CORROSION / IRRITATION

Causes skin irritation

### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

#### 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

Suspected of causing cancer

#### 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".

#### **TOLUENE**

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999)

The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

#### 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

#### 12.2. Persistence and degradability



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

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.

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.

VVI	/MIVTI	IDE	$\cap$ E	ISOMERS)
ΧYL	(IVIIX I L	JKE	OΕ	190MEK91

Solubility in water 100 - 1000 mg/l

Degradability: information not available

**TURPENTINE** 

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

**ROSIN** 

0,1 - 100 mg/l Solubility in water

Rapidly degradable

(R)-P-MENTHA-1,8-DIENE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

**TOLUENE** Solubility in water 100 - 1000 mg/l

Rapidly degradable

CYCLOHEXANOL

Solubility in water 36000 mg/l

Rapidly degradable

BENZYL ALCOHOL Rapidly degradable

CYCLOHEXANONE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable

ETHYL ACETATE

> 10000 mg/l Solubility in water

Rapidly degradable

#### 12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water 3,12 **BCF** 25.9

**ROSIN** 

Partition coefficient: n-octanol/water 56,23

(R)-P-MENTHA-1,8-DIENE

4,38 Partition coefficient: n-octanol/water **BCF** 1022

**TOLUENE** 

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

CYCLOHEXANOL

Partition coefficient: n-octanol/water 1,25

BENZYL ALCOHOL

Partition coefficient: n-octanol/water 1.1



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

CYCLOHEXANONE

Partition coefficient: n-octanol/water 0,86

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68 BCF 30

#### 12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

ROSIN

Partition coefficient: soil/water 3,7289

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 OF PAINT RELATED MATERIAL (TURPENTINE)

IATA: PAINT OF PAINT RELATED MATERIAL



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## 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



IATA:

NO

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

Limited Quantities: 5 L

Tunnel restriction code: (D/E)

IMDG: IATA:

Special Provision: -

EMS: F-E, S-E

Limited Quantities: 5 L Maximum quantity: 220 L

Packaging instructions: 366 Packaging instructions: 355

Cargo: Pass.:

Maximum quantity: 60 L

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

Point 3 - 40

Contained substance

Point

48 **TOLUENE** 

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:

Substances subject to the Rotterdam Convention:

None



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## 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:

Aerosol 1 Aerosol, category 1

Flam. Liq. 2
Flammable liquid, category 2
Flam. Liq. 3
Flammable liquid, category 3
Carc. 2
Carcinogenicity, category 2
Repr. 2
Reproductive toxicity, category 2
Acute Tox. 3
Acute toxicity, category 3
Acute Tox. 4
Asp. Tox. 1
Flammable liquid, category 2
Flammable liquid, category 2
Acutegory 3
Acute toxicity, category 4
Aspiration hazard, category 1

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

Skin Corr. 1B Skin corrosion, category 1B
Eye Dam. 1 Serious eye damage, category 1
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 Skin sensitization, category 1

STOT SE 2 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 Suspected of causing cancer.

**H361d** Suspected of damaging the unborn child.

H331 Toxic if inhaled.

H302+H332 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.

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

**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.
H371 May cause drowsiness or dizziness.
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.

**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



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

- 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
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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:

02 / 03 / 08 / 11 / 16.