

LRP--000048 - Lustro Rosso

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Safety Data Sheet								
SECTION 1. Identification of the	substance/mixture and of the company/undertaking							
1.1. Product identifier								
Code: Product name	LRP000048 Lustro Rosso 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	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.

H225	Highly flammable liquid and vapour.
H351	Suspected of causing cancer.
H302	Harmful if swallowed.
H332	Harmful 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.
H411	Toxic to aquatic life with long lasting effects.
	H351 H302 H332 H304 H319 H315 H317

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 H351 H302+H332 H304 H319 H315 H317 H411 EUH208	Highly flammable liquid and vapour. Suspected of causing cancer. Harmful if swallowed or if inhaled. May be fatal if swallowed and enters airways. Causes serious eye irritation. Causes skin irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. Contains: Anethole Alpha-Pinene (R)-P-MENTHA-1,8-DIENE
	May produce an allergic reaction.

Precautionary statements:

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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/ protective clothing / 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.

Contains:	1,2,3,4-tetrahydronaphthalene
	TURPENTINE
	Eucalyptus Oil
	ROSIN

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. %	6	Classification 1272/2008 (CLP)
ROSIN			
CAS	8050-09-7 25 ≤ x ·	< 40	Skin Sens. 1 H317
EC	232-475-7		
INDEX	650-015-00-7		
TURPENTINE			
CAS	8006-64-2 25 ≤ x ·	< 40	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.	01-2119553060-53		
CYCLOHEXAN	NOL		
CAS	108-93-0 5 ≤ x <	9	Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Irrit. 2 H315, STOT SE 3 H335
EC	203-630-6		
INDEX	603-009-00-3		



SECTION 3. Composition/information on ingredients

COLOROBBIA S.P.A.

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CYCLOHEXANE 110-82-7 $5 \le x < 9$ Flam. Lig. 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 **Eucalyptus Oil** CAS 8000-48-4 $5 \le x < 9$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Sens. 1 H317, Aquatic Chronic 2 H411 EC INDEX Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%) CAS $2,5 \le x < 5$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066, Classification note according to Annex VI to the CLP Regulation: P EC 919-446-0 INDEX 01-2119458049-33 Reg. no. XYLENE (MIXTURE OF ISOMERS) 1330-20-7 1 ≤ x < 5 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, CAS Classification note according to Annex VI to the CLP Regulation: C EC 215-535-7 INDEX 601-022-00-9 1,2,3,4-tetrahydronaphthalene CAS 119-64-2 $1 \le x < 2.5$ Carc. 2 H351, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 2 H411, EUH019 204-340-2 EC INDEX 601-045-00-4 Rea. no. 01-2119539463-37-XXXX ETHYL ACETATE CAS 141-78-6 $0,5 \le x < 1$ Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066 FC 205-500-4 INDEX 607-022-00-5 Reg. no. 01-2119475103-46 (R)-P-MENTHA-1,8-DIENE Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, CAS 5989-27-5 $0.25 \le x \le 0.5$ 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 Decahydronaphthalene CAS 91-17-8 $0 \le x \le 0.5$ Flam. Liq. 3 H226, Acute Tox. 3 H331, Asp. Tox. 1 H304, Skin Corr. 1B H314, Aquatic Chronic 2 H411 EC 202-046-9 INDEX Reg. no. 01-2119565127-37-XXXX Alpha-Pinene CAS 80-56-8 $0 \le x < 0,25$ 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 Anethole CAS 104-46-1 $0 \le x < 0.5$ Skin Sens. 1 H317 EC 2032055 INDEX 4-METHYLPENTAN-2-ONE $0 \le x < 0,5$ CAS 108-10-1 Flam. Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066 EC 203-550-1 INDEX 606-004-00-4 01-2119473980-30 Reg. no. 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

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

@EPY 9.4.5 - SDS 1004.11



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

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.

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



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

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:

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5/EC;
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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					

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

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

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							

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

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)

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

XYLENE (MIXTURE OF ISOMERS)

ATLENE (MIXTURE OF ISOMERS)									
Threshold Limit Value									
Туре	Country	TWA/8h		STEL/15r	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				

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

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SECTION 8. Exposure controls/personal protection/>>

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	ETHYL ACETATE								
Threshold Limit V	/alue								
Туре	Country	TWA/8h		STEL/15m	in				
		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		ation - PNE	EC						
Normal value in							0,26	mg/l	
Normal value in							0,026	mg/l	
Normal value for							1,25	mg/kg	
Normal value for			nt				0,125	mg/kg	
Normal value of		•					650	mg/l	
Normal value for				g)			0,2	g/Kg	
Normal value for							0,24	mg/kg	
Health - Derived r	no-effect lev	el - DNEL	/ DMEL						
		cts on cons	sumers			Effects on worke	rs		
Route of expos	ure Acu	te A	cute	Chronic local	Chronic	Acute local	Acute	Chronic	Chronic
	loca	ıl sy	/stemic		systemic		systemic	local	systemic
Oral				VND	4,5				
					mg/kg				
Inhalation	734		34	VND	367	1468	1468	734	734
	mg/	m3 m	g/m3		mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin				VND	37			VND	63
					mg/kg				mg/kg
						-			
				(R)-P-MENT	HA-1,8-DIENE				

Threshold Lin	nit 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		

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

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



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SECTION 8. Exposure controls/personal 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.

°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
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	10 T ≤ 15
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) :

22,75 %

SECTION 10. Stability and reactivity

10.1. Reactivity

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

4-METHYLPENTAN-2-ONE

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

TOLUENE Avoid exposure to: light.

TURPENTINE Dissolves rubber.

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



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

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

4-METHYLPENTAN-2-ONE

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

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.

10.4. Conditions to avoid

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

4-METHYLPENTAN-2-ONE

Avoid exposure to: sources of heat.

CYCLOHEXANOL

Avoid exposure to: sources of heat, naked flames.

ETHYL ACETATE

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

10.5. Incompatible materials

4-METHYLPENTAN-2-ONE

Incompatible with: oxidising substances, reducing substances.

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.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.



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SECTION 10. Stability and reactivity/>>

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.

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.

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.

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.

CYCLOHEXANE

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

ΕN



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SECTION 11. Toxicological information .../>>

TOLUENE

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

ACUTE TOXICITY

LC50 (Inhalation) 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)

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

4-METHYLPENTAN-2-ONE LD50 (Oral) LD50 (Dermal) LC50 (Inhalation) 19,70 mg/l 1020 mg/kg >2000 mg/kg

3523 mg/kg Rat 4350 mg/kg Rabbit 26 mg/l/4h Rat

5760 mg/kg Rat

> 5000 mg/kg Rat
 > 2000 mg/kg Rabbit
 13,9 mg/l/4h Rat

5580 mg/kg Rat 12124 mg/kg Rabbit 28,1 mg/l/4h Rat

2080 mg/kg Rat > 16000 mg/kg Rabbit > 8,2 mg/l/4h Rat

Hydrocarbons, C9-C12 n-alkanes, ISOALCANI, CYCLIC, AROMATIC (2-25%)LD50 (Oral)> 5000 mg/kg RatLD50 (Dermal)> 4 ml/Kg RabbitLC50 (Inhalation)> 8,2 mg/l 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: Anethole Alpha-Pinene (R)-P-MENTHA-1,8-DIENE

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



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SECTION 11. Toxicological information/>>

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 is toxic for aquatic organisms. In the long term, it have negative effects on acquatic 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.

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

@EPY 9.4.5 - SDS 1004.11



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SECTION 12. Ecological information ... / >>

TOLUENE Solubility in water Rapidly degradable	100 - 1000 mg/l
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
TOLUENE Partition coefficient: n-octanol/water BCF	2,73 90
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:	

EN



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SECTION 12. Ecological information ... / >>

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

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: II

14.5. Environmental hazards

Marine Pollutant

NO



IATA:

IMDG:

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

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SECTION 14. Transport information/>>

14.6. Special precautions for user

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

P5c-E2

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:	

Restrictions related	ting to the product or cor	ntained substances	pursuant to Annex	XVII to EC Regulation 19	907/2006
Product					
Point	3 - 40				

Point	3 - 40	
Contained substance		
Point	57	CYCLOHEXANE
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: None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

15.2. Chemical safety assessment

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 Carc. 2 Repr. 2 Acute Tox. 3	Flammable liquid, category 2 Flammable liquid, category 3 Carcinogenicity, category 2 Reproductive toxicity, category 2 Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
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	Skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1



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SECTION 16. Other information ... / >>

Aquatic Chronic 2 H225 H226 H351 H361d H331 H302+H332 H302 H312 H332 H304 H373 H314 H319 H315 H335	 Hazardous to the aquatic environment, chronic toxicity, category 2 Highly flammable liquid and vapour. Flammable liquid and vapour. Suspected of causing cancer. Suspected of damaging the unborn child. Toxic if inhaled. Harmful if swallowed or if inhaled. Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. May be fatal if swallowed and enters airways. May cause damage to organs through prolonged or repeated exposure. Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.
	, , ,
H314	
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	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
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)



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SECTION 16. Other information ... / >>

- 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 / 04 / 08 / 09 / 10 / 11 / 12. Changed TLVs in section 8.1 for following countries: CZE,