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	Safety data sheet	
SECTION 1. Identification of the sub	stance/mixture and of the company/under	taking
1.1. Product identifier Product name	SERIE PLT15	
1.2. Relevant identified uses of the substance or n Intended use Pad printing ink.	nixture and uses advised against	
1.3. Details of the supplier of the safety data sheet Name Full address District and Country	COMEC ITALIA SRL PIAZZALE DEL LAVORO 149 21044 CAVARIA VA ITALIA	
	Tel. 0331 219516	
e-mail address of the competent person	Fax 0331 216161	
responsible for the Safety Data Sheet Product distribution by	<u>info@comec-italia.it</u> EDGARDO BAGGINI	
1.4. Emergency telephone number For urgent inquiries refer to	+39 0331 219516	
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 EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Hazard classification and indication:	
Flam. Liq. 3	H226
Eye Dam. 1	H318
Aquatic Chronic 3	H412

2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments. Danger Symbols:

Xn R phrases:

10-20/21-36-52/53

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

2.2. Label elements.

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

		EC ITALIA SF	νL	Dated 17/11/2014				
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lazard pictograms:								
Signal words:	Danger							
azard statements:								
H226	Flammable liquid and v							
H318 H412	Causes serious eye da Harmful to aquatic life v		ects.					
Precautionary statements	S:							
P210			es / hot surfaces. No smoking.					
P233 P280	Keep container tightly c Wear protective gloves	/ protective clothing	g / eye protection / face protection.					
P280Wear protective gloves / protective clothing / eye protection / face protection.P303+P361+P353IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.P310Immediately call a POISON CENTER or doctor / physician.P370+P378In case of fire: Use CO2, chemical powder for extinction.								
Contains:	BUTANOL							
Contains: 2.3. Other hazards.	BUTANOL							
2.3. Other hazards.								
2.3. Other hazards.		ion on ingred	lients.					
2.3. Other hazards.		ion on ingred	lients.					
2.3. Other hazards. nformation not available SECTION 3. Col		ion on ingred	lients.					
2.3. Other hazards. formation not available SECTION 3. Col 3.1. Substances.		ion on ingred	lients.					
 2.3. Other hazards. anformation not available SECTION 3. Condition 3.1. Substances. anformation not relevant. 3.2. Mixtures. 		ion on ingred	lients.					
 2.3. Other hazards. aformation not available SECTION 3. Col 3.1. Substances. aformation not relevant. 3.2. Mixtures. 		ion on ingred	lients. Classification 67/548/EEC.	Classification 1272/2008 (CLP).				
 2.3. Other hazards. anformation not available SECTION 3. Contains: a.1. Substances. biomation not relevant. a.2. Mixtures. Contains: Identification. 				Classification 1272/2008 (CLP). Flam. Liq. 3 H226, Acute Tox. 4 H332				
2.3. Other hazards. formation not available SECTION 3. Con 3.1. Substances. formation not relevant. 3.2. Mixtures. contains: Identification. CYCLOHEXANONE CAS. 108-94-1	mposition/informat	Conc. %.	Classification 67/548/EEC.					
 2.3. Other hazards. aformation not available SECTION 3. Con 3.1. Substances. aformation not relevant. 3.2. Mixtures. contains: Identification. CYCLOHEXANONE CAS. 108-94-1 EC. 203-631-1 	mposition/informat	Conc. %.	Classification 67/548/EEC.					
 2.3. Other hazards. aformation not available SECTION 3. Conditional statements 3.1. Substances. aformation not relevant. 3.2. Mixtures. ontains: Identification. CYCLOHEXANONE CAS. 108-94-1 EC. 203-631-1 INDEX. 606-010-00-7 Reg. no. 01-21194536 2-METHOXY-1-METHY 	mposition/informat	Conc. %.	Classification 67/548/EEC. R10, Xn R20	Flam. Liq. 3 H226, Acute Tox. 4 H332				
 2.3. Other hazards. aformation not available SECTION 3. Colling 3.1. Substances. aformation not relevant. 3.2. Mixtures. contains: Identification. CYCLOHEXANONE CAS. 108-94-1 EC. 203-631-1 INDEX. 606-010-00-7 	mposition/informat	Conc. %.	Classification 67/548/EEC.					
2.3. Other hazards. Information not available SECTION 3. Con 3.1. Substances. Information not relevant. 3.2. Mixtures. Contains: Identification. CYCLOHEXANONE CAS. 108-94-1 EC. 203-631-1 INDEX. 606-010-00-7 Reg. no. 01-21194530 2-METHOXY-1-METHY CAS. 108-65-6	mposition/informat	Conc. %. 21 - 22,5	Classification 67/548/EEC. R10, Xn R20	Flam. Liq. 3 H226, Acute Tox. 4 H332				
2.3. Other hazards. Information not available SECTION 3. Con 3.1. Substances. Information not relevant. 3.2. Mixtures. Contains: Identification. CYCLOHEXANONE CAS. 108-94-1 EC. 203-631-1 INDEX. 606-010-00-7 Reg. no. 01-21194530 2-METHOXY-1-METHY CAS. 108-65-6 EC. 203-603-9 INDEX. 607-195-00-7 Reg. no. 01-21194755	mposition/informat	Conc. %. 21 - 22,5	Classification 67/548/EEC. R10, Xn R20	Flam. Liq. 3 H226, Acute Tox. 4 H332				
2.3. Other hazards. Information not available SECTION 3. Con 3.1. Substances. Information not relevant. 3.2. Mixtures. Contains: Identification. CYCLOHEXANONE CAS. 108-94-1 EC. 203-631-1 INDEX. 606-010-00-7 Reg. no. 01-21194530 2-METHOXY-1-METHY CAS. 108-65-6 EC. 203-603-9 INDEX. 607-195-00-7	mposition/informat	Conc. %. 21 - 22,5	Classification 67/548/EEC. R10, Xn R20	Flam. Liq. 3 H226, Acute Tox. 4 H332				

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EC. 204-626-7			
INDEX. 603-016-00-1			
Reg. no. 01-2119473975-21xxxx			
Hydrocarbons, C10, aromatics, <1% naphtalene			
CAS	6 - 7	R66, R67, Xn R65, N R51/53	Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066
EC. 918-811-1			
INDEX			
Reg. no. 01-2119463583-34-xxxx			
BUTANOL			
CAS. 71-36-3	3 - 3,5	R10, R67, Xn R22, Xi R37/38, Xi R41	Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336
EC. 200-751-6			STOT SE 3 H330
INDEX. 603-004-00-6			
Reg. no. 01-2119484630-38			
Aromatic hydrocarbons, C9			
CAS. 64742-95-6	0,8 - 0,9	R10, R66, R67, Xn R65, Xi R37, N R51/53, Note P	Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066, Note P
EC. 918-668-5			
INDEX. 649-356-00-4			
Reg. no. 01-2119486773-35-xxxx			
METHANOL			
CAS. 67-56-1	0 - 0,1	F R11, T R23/24/25, T R39/23/24/25	Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370
EC. 200-659-6			
INDEX. 603-001-00-X			

Note: Upper limit is not included into the range.

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet. T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

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SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

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

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

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.

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. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

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

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. 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

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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:

United Kingdom	EH40/2005 Workplace exposure limits. Containing the list of workplace exposure limits for use with the Control of Substances Hazardous to Health Regulations (as
	amended).
Éire	Code of Practice Chemical Agent Regulations 2011.
OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive
	2000/39/EC.
TLV-ACGIH	ACGIH 2012

CYCLOHEXANONE

Threshold Limit Value.	Country	TWA/8h		STEL/15min					
		mg/m3	ppm	mg/m3	ppm				
OEL	EU	40,8	10	81,6	20	SKIN			
OEL	IRL	40,8	10	81,6	20	SKIN			
TLV-ACGIH		80	20	201	50				
WEL	UK	41	10	82	20	SKIN			
Predicted no-effect concentration - PNEC.									
Normal value for the terrestrial compartment0,0143mg/KgNormal value in fresh water0,0329mg/lNormal value in marine water0,0329mg/lNormal value for fresh water sediment0,0951mg/l							g		
Health - Derived no-effect	level - DNEL / Effects on	DMEL			Effects on				
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	workers Acute local	Acute systemic	Chronic local	Chronic systemic	
Inhalation.				oyotonno		oyotonno	120 mg/m3	20 mg/m3	
Skin.							VND	20 mg/kg/d	
2-METHOXY-1-METHYLET	HYL ACETATE	E							
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min					
		mg/m3	ppm	mg/m3	ppm				
OEL	EU	275	50	550	100	SKIN			
OEL	IRL	275	50	550	100	SKIN			
WEL	UK	274	50	548	100				
Predicted no-effect concentration	n - PNEC.								
Normal value for the terrestrial c	ompartment			0,29		mg/kg	9		

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Normal value in fresh water				0,635		mg/l		
Normal value for water, intern	nittent release			6,35		mg/l		
Normal value in marine water				0,0635		mg/l		
Normal value for fresh water	sediment			3,29		mg/kg	1	
Normal value for marine wate				0,329		mg/l		
Normal value of STP microor				100		mg/l		
Health - Derived no-effe	ct level - DNEL / D	MEL						
	Effects on				Effects on			
	consumers.				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
				systemic		systemic		systemic
Oral.			VND	1,67 mg/kg				
Inhalation.			VND	33 mg/m3			VND	272 mg/m3
aidididini				oo mg/mo				2.2.mg/o
Skin.			VND	54,8 mg/kg			VND	153,5 mg/kg
4-HYDROXY-4-METHYL	PENTAN-2-ONE							
Threshold Limit Value								

Threshold Limit Value. Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
OEL	IRL	240	50	360	75
TLV-ACGIH		238	50		
WEL	UK	241	50	362	75

DIMETHYL ADIPATE, DIMETHYL GLUTARATE, DIMETHYL SUCCINATE, REACTION MASS Predicted no-effect concentration - PNEC.

Normal value for the terrestrial compartment		0,09		mg/k	.g/d	
Normal value in fresh water		0,018		mg/l		
Normal value for water, intermittent release		0,18		mg/l		
Normal value in marine water		0,0018		mg/l		
Normal value for fresh water sediment		0,16		mg/k	.g/d	
Normal value for marine water sediment		0,016		mg/k	g/d	
Normal value of STP microorganisms		10		mg/l		
Health - Derived no-effect level - DNEL / DMEL						
Effects on			Effects on			
consumers.			workers			
Route of exposure Acute local Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
		systemic		systemic		systemic
Inhalation.	5 mg/m3	VND			8,3 mg/m3	VND

Hydrocarbons, C10, aromatics, <1% naphtalene Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers.				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	7,5 mg/kg/d				
Inhalation.			VND	32 mg/m3			VND	151 mg/m3
Skin.			VND	7,5 mg/kg/d			VND	12,5 mg/kg/d
BUTANOL								
Threshold Limit Value.								
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
OEL	IRL		20			SKIN		
TLV-ACGIH		61	20					
WEL	UK			154	50	SKIN		
Predicted no-effect concentration - PNEC.								

Normal value for the terrestrial compartment	0,015	mg/kg
Normal value in fresh water	0,082	mg/l
Normal value for water, intermittent release	2,25	mg/l

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						I		
ormal value in marine water ormal value for fresh water se ormal value for marine water ormal value of STP microorga lealth - Derived no-effect	sediment anisms	MEI		0,0082 0,178 0,0178 2476		mg/l mg/kg mg/l		
leann - Denveu no-eneci	Effects on consumers.				Effects on workers			
Route of exposure Oral.	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
nhalation.			55 mg/m3	3125 mg/kg VND			310 mg/m3	VND
Aromatic hydrocarbons,	C9							
Threshold Limit Value.	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		100	20	250	50			
Health - Derived no-effect	t level - DNEL / E Effects on consumers.	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	11 mg/kg				
Inhalation.			VND	32 mg/m3			VND	150 mg/m3
Skin.			VND	11 mg/kg			VND	25 mg/kg
METHANOL Threshold Limit Value.								
Type	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	260	200			SKIN		
OEL	IRL	260	200			SKIN		
TLV-ACGIH		262	200	328	250			
WEL	UK	266	200	333	250	SKIN		
Predicted no-effect concentration	on - PNEC.							
Normal value for the terrestrial Normal value in fresh water Normal value for water, intermi Normal value in marine water Normal value for fresh water se Normal value of STP microorga	ttent release ediment anisms			23,5 154 1540 15,4 570,4 100		mg/kg mg/l mg/l mg/l mg/kg mg/l		
Health - Derived no-effect	t level - DNEL / C Effects on consumers.				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation. Skin.	50 mg/m3 VND	50 mg/m3 8 mg/kg/d	50 mg/m3 VND	50 mg/m3 8 mg/kg/d	260 mg/m3 VND	260 mg/m3 40 mg/kg/d	260 mg/m3 VND	260 mg/m3 40 mg/kg/d
egend:								

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.

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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 I 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 a hood visor or protective visor combined with airtight goggles (see standard EN 166).

RESPIRATORY PROTECTION

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

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

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

ENVIRONMENTAL EXPOSURE CONTROLS.

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

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.

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Decomposition temperature. Viscosity Explosive properties Oxidising properties

Not available. Not available. Not available. Not available.

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

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

1-METHOXY-2-PROPANOL ACETATE: stable but with the air it may slowly develop peroxides that explode with an increase in temperature. BUTANOL: attacks various types of plastic.

4-HYDROXY-4-METHYLPENTAN-2-ONE: decomposes at tempratures above 90°C.

CYCLOHEXANONE: may condense under the effect of heat to form resinous compounds. Attacks various types of plastic.

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.

1-METHOXY-2-PROPANOL ACETATE: may react violently with oxidising agents and strong acids and alkaline metals.

BUTANOL: reacts violently developing heat with: aluminium, strong oxidising agents, strong reducing agents, hydrochloric acid. Forms explosive mixtures with the air.

4-HYDROXY-4-METHYLPENTAN-2-ONE: risk of explosion on contact with the air and sources of heat. Can react dangerously with: alkaline metals, amines, oxidising agents, acids.

CYCLOHEXANONE: risk of explosion on contact with: hydrogen peroxide, nitric acid, heat, mineral acids. Can react violently with oxidising agents. Forms explosive mixtures with the air.

10.4. Conditions to avoid.

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

1-METHOXY-2-PROPANOL ACETATE: store in an inert atmosphere, sheletered from moisture because it hydrolises easily. BUTANOL: avoid exposure to sources of heat and naked flames. 4-HYDROXY-4-METHYLPENTAN-2-ONE: avoid exposure to light, sources of heat and naked flames. CYCLOHEXANONE: avoid exposure to sources of heat and naked flames.

10.5. Incompatible materials.

1-METHOXY-2-PROPANOL ACETATE: oxidising agents, strong acids and alkaline metals.

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.

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

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In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product. This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Specific target organ toxicity (STOT) - single exposure: NOAEC> 600 mg / kg Inhalation. Rat.

1-METHOXY-2-PROPANOL ACETATE: the main way of entry is the skin, whereas the respiratory way is less important owing to the low vapour tension of the product. Concentrations above 100 ppm cause eye irritation, nose and oropharynx. At 1000 ppm disturbance in the equilibrium and severe eye irritation is observed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and ocular irritation on direct contact. No chronic effects have been reported in man.

METHANOL: The minimal lethal dose following ingestion is considered to be in the range of 300-1000 mg/kg. Ingestion of as little as 4-10 ml methanol in adults may cause permanent blindness (IPCS).

4-HYDROXY-4-METHYLPENTAN-2-ONE: its acute toxicity is manifested by eye irritation, nose and throat in man at 100 ppm (476 mg/kg) and by pulmonary disorders at 400 ppm. No chronic effects have been reported in man.

Hydrocarbons, C10, aromatics, <1% naphtalene LD50 (Oral). 6318 mg/kg Ratto / Rat LD50 (Dermal). > 2000 mg/kg Coniglio / Rabbit LC50 (Inhalation). > 4688 mg/kg/4h Ratto / Rat

2-METHOXY-1-METHYLETHYL ACETATE LD50 (Oral). > 5000 mg/kg Ratto / Rat LD50 (Dermal). > 2000 mg/kg Ratto / Rat LC50 (Inhalation). > 4345 ppm/6h Ratto / Rat

METHANOL

LD50 (Oral). > 1000 mg/Kg Ratto / Rat LD50 (Dermal). 11700 mg/Kg Coniglio / Rabbit

BUTANOL LD50 (Oral). 790 mg/kg Rat LD50 (Dermal). 3400 mg/kg Rabbit LC50 (Inhalation). 8000 ppm/4h Rat

4-HYDROXY-4-METHYLPENTAN-2-ONE LD50 (Oral). 4000 mg/kg Rat LC50 (Inhalation). > 7600 mg/l Ratto / Rat

CYCLOHEXANONE LD50 (Oral). > 1535 mg/Kg Ratto / Rat LD50 (Dermal). 948 mg/Kg Coniglio / Rabbit LC50 (Inhalation). > 8000 mg/l Ratto / Rat

Aromatic hydrocarbons, C9 LD50 (Oral). > 2000 mg/Kg LD50 (Dermal). > 2000 mg/Kg LC50 (Inhalation). > 5 mg/l

DIMETHYL ADIPATE, DIMETHYL GLUTARATE, DIMETHYL SUCCINATE, REACTION MASS LD50 (Oral). > 5000 mg/kg Rat LD50 (Dermal). > 2000 mg/kg Rat LC50 (Inhalation). > 11 mg/l Rat (4h)

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SECTION 12. Ecological information.	
his product is dangerous for the environment and the aquatic organisms. In the long term, it have 12.1. Toxicity.	negative effects on aquatic environment.
-METHOXY-1-METHYLETHYL ACETATE	
C50 - for Fish. 134 mg/l/96h Pesce, Oncorhynchus mykiss OECD 203	
C50 - for Crustacea. > 500 mg/l/48h Daphnia magna	
C50 - for Algae / Aquatic Plants.	
> 1000 mg/l/72h Selenastrum capricornutum OECD 201 hronic NOEC for Fish.	
47,5 mg/l Oryzias latipes 14 gg OECD 204	
Chronic NOEC for Crustacea. 100 mg/l Dapnia magna 21 gg OECD 202	
/ETHANOL	
C50 - for Fish.	
15400 mg/l/96h C50 - for Crustacea.	
> 10000 mg/l/48h	
UTANOL	
C50 - for Fish. > 100 mg/l/96h Pimephales promelas	
C50 - for Crustacea.	
> 100 mg/l/48h Daphnia magna	
-HYDROXY-4-METHYLPENTAN-2-ONE	
C50 - for Fish. > 100 mg/l/96h Fish	
C50 - for Crustacea.	
> 1000 mg/l/48h Daphnia magna	
CYCLOHEXANONE EC50 - for Crustacea.	
527 mg/l/48h Fish, Pimephales promelas (96h)	
vromatic hydrocarbons, C9	
C50 - for Fish.	
> 1 mg/l/96h ALGHE: TOSSICO: 1< LC/EC/IC50 <= 10 mg/l C50 - for Crustacea.	
> 10 mg/l/48h INVERTEBRATI ACQUATICI: TOSSICO: 1 < LC/EC/IC50 <= 10 mg/l C50 - for Algae / Aquatic Plants.	
> 100 mg/l/72h PESCE: TOSSICO: 1 < LC/EC/IC50 <= 10 mg/l	
DIMETHYL ADIPATE, DIMETHYL GLUTARATE, DIMETHYL SUCCINATE, REACTION MASS	
.C50 - for Fish. >18 mg/l/96h Fish (Pimephales promelas) (72h)	
EC50 - for Crustacea.	
> 112 mg/l/48h Daphnia Magna	
12.2. Persistence and degradability.	
Biodegrabilità aerobica ultima	
acilmente biodegradabile 98 % - 19 d /letodo: OECD TG 301	
Rapporti non pubblicati.	
lydrocarbons, C10, aromatics, <1% naphtalene	
olubility in water.	

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mg/l immiscibile in H2O Rapidly biodegradable.

2-METHOXY-1-METHYLETHYL ACETATE Solubility in water. 198000 mg/l Rapidly biodegradable.

METHANOL Rapidly biodegradable.

BUTANOL Rapidly biodegradable.

4-HYDROXY-4-METHYLPENTAN-2-ONE Rapidly biodegradable.

CYCLOHEXANONE Rapidly biodegradable.

Aromatic hydrocarbons, C9 Rapidly biodegradable.

DIMETHYL ADIPATE, DIMETHYL GLUTARATE, DIMETHYL SUCCINATE, REACTION MASS Rapidly biodegradable. 12.3. Bioaccumulative potential.

Bioconcentration factor (BCF): 2.7 Bibliographic Not bioaccumulative.

2-METHOXY-1-METHYLETHYL ACETATE Partition coefficient: n-octanol/water. 1,2 mg/l

BUTANOL BCF. 2,7 **12.4. Mobility in soil.**

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%. **12.6. Other adverse effects.**

Information not available.

SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Avoid littering. Do not contaminate soil, sewers and waterways.

Waste transportation may be subject to ADR restrictions.

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CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information.

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and	rail transport: ADR/RID Class:	3	UN:	1210
3	Packing Group:	111		
	Label:	3		
	Nr. Kemler:	30		
	Limited Quantity.	5 L		
	Tunnel restriction code.	(D/E)		
	Proper Shipping Name:	PRINTING IN	IK or PRINTING INK RELATED MATERI	AL
	Special Provision:	640E		
arriage b	y sea (shipping): IMO Class:	3	UN:	1210
•	Packing Group:	Ш		
	Label:	3		
	EMS:	F-E, S-D		
	Marine Pollutant.	NO		
	Proper Shipping Name:	PRINTING IN	K or PRINTING INK RELATED MATERI	AL
ransport	by air:			
	IATA:	3	UN:	1210
V	Packing Group:	Ш		
	Label:	3		
	Cargo:			
	Packaging instructions:	366	Maximum quantity:	220 L
	Pass.:			
	Packaging instructions:	355	Maximum quantity:	60 L
	Special Instructions:	A3, A72		
	Proper Shipping Name:		IK or PRINTING INK RELATED MATERI	A1

SECTION 15. Regulatory information.

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.

Seveso category.

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

Product. Point.

3 - 40

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisarion (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	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 3	Acute toxicity, category 3
STOT SE 1	Specific target organ toxicity - single exposure, category 1
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
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
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2

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Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3	
H225	Highly flammable liquid and vapour.	
H226	Flammable liquid and vapour.	
H301	Toxic if swallowed.	
H311	Toxic in contact with skin.	
H331	Toxic if inhaled.	
H370	Causes damage to organs.	
H302	Harmful if swallowed.	
H332	Harmful if inhaled.	
H304	May be fatal if swallowed and enters airways.	

R10	FLAMMABLE.
R11	HIGHLY FLAMMABLE.
R20	HARMFUL BY INHALATION.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R22	HARMFUL IF SWALLOWED.
R23/24/25	TOXIC BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R36	IRRITATING TO EYES.
R37	IRRITATING TO RESPIRATORY SYSTEM.
R37/38	IRRITATING TO RESPIRATORY SYSTEM AND SKIN.
R39/23/24/25	TOXIC: DANGER OF VERY SERIOUS IRREVERSIBLE EFFECTS THROUGH INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.
R41	RISK OF SERIOUS DAMAGE TO EYES.
R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R52/53	HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
R66	REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

LEGEND:

H318

H319

H315

H335

H336

H411

H412

EUH066

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

Causes serious eye damage.

Causes serious eye irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life with long lasting effects.

Harmful to aquatic life with long lasting effects.

Repeated exposure may cause skin dryness or cracking.

Causes skin irritation.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

- 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

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 IC50: Immobilization Concentration 50% IMDG: International Maritime Organization INDEX NUMBER: Identifier in Annex VI of CLP LC50: Lethal Concentration 50% UD50: Lethal dose 50% OEL: Occupational Exposure Level PBT: Persistent bioaccumulative and toxic as REACH Regulation PEC: Predicted environmental Concentration PEL: 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. Directive 1999/45/EC and following amendments 2. Directive 67/548/EEC and following amendments and adjustments 3. Regulation (EC) 1907/2006 (REACH) of the European Parliament 4. Regulation (EC) 1272/2008 (CLP) of the European Parliament 5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament 6. Regulation (EC) 286/2011 (II Atp. CLP) of the European Parliament 7. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament 8. Regulation (EC) 618/2012 (III Atp. CLP) of the European Parliament 9. The Merck Index 10th Edition 10. Handling Chemical Safety 11. Niosh - Registry of Toxic Effects of Chemical Substances 12. INRS - Fiche Toxicologique (toxicological sheet) 13. Patty - Industrial Hygiene and Toxicology 14. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition 15. ECHA website FOR PROFESSIONAL USE ONLY This safety data sheet is prepared in accordance with the instructions provided on the relevant safety data sheets Note for users:	s by our suppliers.

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 / 08 / 09 / 11 / 12 / 16.