COMEC	ITALIA SRL	Revision nr. 8 Dated 01.06.2015
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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 PLT22	
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	
	Fax 0331 216161	
e-mail address of the competent person		
responsible for the Safety Data Sheet Product distribution by	info@comec-italia.it 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 Irrit. 2	H319
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:

10-20/21-52/53

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.

	COM	EC ITALIA SF	KL	Dated 01.06.2015
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lazard pictograms:				
AN /	î V			
	•			
Signal words:	Warning			
lazard statements:				
H226 H319	Flammable liquid and Causes serious eye irr			
H412	Harmful to aquatic life		ects.	
recautionary statements:				
P210			es / hot surfaces. No smoking.	
P233 P264	Keep container tightly Wash the hands thorough	ughly after handling.		
P280	Wear protective gloves	s / protective clothing	g / eye protection / face protection.	
D202 . D264 . D252				
P303+P361+P353 P337+P313	If eye irritation persists	: Get medical advice	nmediately all contaminated clothing e / attention.	J. Rinse skin with water / shower.
	If eye irritation persists	Remove / Take off in Set medical advice	nmediately all contaminated clothing e / attention.). Rinse skin with water / shower.
P337+P313	If eye irritation persists	Remove / Take off in S: Get medical advice	nmediately all contaminated clothing e / attention.	. Kinse skin with water / shower.
P337+P313 2.3. Other hazards.	If eye irritation persists	: Get medical advice	e / attention.). Kinse skin with water / shower.
P337+P313 2.3. Other hazards. nformation not available.	If eye irritation persists	: Get medical advice	e / attention.). Kinse skin with water / shower.
P337+P313 2.3. Other hazards. nformation not available. SECTION 3. Com 3.1. Substances.	If eye irritation persists	: Get medical advice	e / attention.). Kinse skin with water / shower.
P337+P313 2.3. Other hazards. nformation not available. SECTION 3. Com	If eye irritation persists	: Get medical advice	e / attention.	, Kinse skin with water / shower.
P337+P313 2.3. Other hazards. Information not available. SECTION 3. Com 3.1. Substances. Information not relevant. 3.2. Mixtures.	If eye irritation persists	: Get medical advice	e / attention.). Kinse skin with water / shower.
P337+P313 2.3. Other hazards. Information not available. SECTION 3. Com 3.1. Substances. Information not relevant. 3.2. Mixtures.	If eye irritation persists	: Get medical advice	e / attention.	Classification 1272/2008 (CLP).
P337+P313 2.3. Other hazards. Information not available. SECTION 3. Com 3.1. Substances. Information not relevant. 3.2. Mixtures. Contains: Identification.	If eye irritation persists	:: Get medical advice	e / attention.	
P337+P313 2.3. Other hazards. Information not available. SECTION 3. Com 3.1. Substances. Information not relevant. 3.2. Mixtures. Contains: Identification. 2-METHOXY-1-METHYL CAS. 108-65-6 EC. 203-603-9 INDEX. 607-195-00-7	If eye irritation persists	:: Get medical advice tion on ingred	e / attention. lients. Classification 67/548/EEC.	Classification 1272/2008 (CLP).
P337+P313 2.3. Other hazards. Information not available. SECTION 3. Com 3.1. Substances. Information not relevant. 3.2. Mixtures. Contains: Identification. 2-METHOXY-1-METHYL CAS. 108-65-6 EC. 203-603-9 INDEX. 607-195-00-7 Reg. no. 01-211947579	If eye irritation persists	:: Get medical advice tion on ingred	e / attention. lients. Classification 67/548/EEC.	Classification 1272/2008 (CLP).
P337+P313 2.3. Other hazards. Information not available. SECTION 3. Com 3.1. Substances. Information not relevant. 3.2. Mixtures. Intains: Identification. 2-METHOXY-1-METHYL CAS. 108-65-6 EC. 203-603-9 INDEX. 607-195-00-7 Reg. no. 01-211947579 CYCLOHEXANONE	If eye irritation persists	tion on ingred Conc. %. 25,5 - 27	e / attention. lients. Classification 67/548/EEC. R10	Classification 1272/2008 (CLP). Flam. Liq. 3 H226
P337+P313 2.3. Other hazards. Information not available. SECTION 3. Com 3.1. Substances. Information not relevant. 3.2. Mixtures. Contains: Identification. 2-METHOXY-1-METHYL CAS. 108-65-6 EC. 203-603-9 INDEX. 607-195-00-7 Reg. no. 01-211947579 CYCLOHEXANONE CAS. 108-94-1 EC. 203-631-1	If eye irritation persists	:: Get medical advice tion on ingred	e / attention. lients. Classification 67/548/EEC.	Classification 1272/2008 (CLP).
P337+P313 2.3. Other hazards. iformation not available. SECTION 3. Com 3.1. Substances. iformation not relevant. 3.2. Mixtures. contains: Identification. 2-METHOXY-1-METHYL CAS. 108-65-6 EC. 203-603-9 INDEX. 607-195-00-7 Reg. no. 01-211947579 CYCLOHEXANONE CAS. 108-94-1 EC. 203-631-1 INDEX. 606-010-00-7	If eye irritation persists position/informa	tion on ingred Conc. %. 25,5 - 27	e / attention. lients. Classification 67/548/EEC. R10	Classification 1272/2008 (CLP). Flam. Liq. 3 H226
P337+P313 2.3. Other hazards. information not available. SECTION 3. Com 3.1. Substances. information not relevant. 3.2. Mixtures. Contains: Identification. 2-METHOXY-1-METHYL CAS. 108-65-6 EC. 203-603-9 INDEX. 607-195-00-7 Reg. no. 01-211947578 CYCLOHEXANONE CAS. 108-94-1 EC. 203-631-1 INDEX. 606-010-00-7 Reg. no. 01-211945361	If eye irritation persists position/informa ETHYL ACETATE 01-29-xxxx	tion on ingred Conc. %. 25,5 - 27	e / attention. lients. Classification 67/548/EEC. R10	Classification 1272/2008 (CLP). Flam. Liq. 3 H226
P337+P313 2.3. Other hazards. information not available. SECTION 3. Com 3.1. Substances. information not relevant. 3.2. Mixtures. contains: Identification. 2-METHOXY-1-METHYL CAS. 108-65-6 EC. 203-603-9 INDEX. 607-195-00-7 Reg. no. 01-211947579 CYCLOHEXANONE CAS. 108-94-1 EC. 203-631-1 INDEX. 606-010-00-7	If eye irritation persists position/informa ETHYL ACETATE 01-29-xxxx	tion on ingred Conc. %. 25,5 - 27	e / attention. lients. Classification 67/548/EEC. R10	Classification 1272/2008 (CLP). Flam. Liq. 3 H226

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INDEX. 607-038-00-2			
Reg. no. 01-2119475112-47xxxx			
4-HYDROXY-4-METHYLPENTAN-2-ONE			
CAS. 123-42-2 EC. 204-626-7	6 - 7	Xi R36	Flam. Liq. 3 H226, Eye Irrit. 2 H319
INDEX. 603-016-00-1			
Reg. no. 01-2119473975-21xxxx			
Aromatic hydrocarbons, C9			
CAS. 64742-95-6	2 - 2,5	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			
quaternary ammonium eto sulphate			
CAS. 68308-64-5	2 - 2,5	Xn R22, Xi R38, Xi R41, N R50	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1
EC. 269-662-8			
INDEX			
Reg. no. auto classificazione			
N-BUTYL ACETATE			
CAS. 123-86-4 EC. 204-658-1	2 - 2,5	R10, R66, R67	Flam. Liq. 3 H226, STOT SE 3 H336, EUH066
INDEX. 607-025-00-1			
Reg. no. 01-2119485493-29-xxxx			
Amines, coco alkyldimethyl, N-oxides			
CAS. 61788-90-7	0,1 - 0,2	Xn R22, Xi R38, Xi R41, N R50	Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=10
EC. 263-016-9			
INDEX			

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.

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Information not available.

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.

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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:

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

2-METHOXY-1-METHYLETHYL ACETATE

2-METHOXY-1-METHYLET Threshold Limit Value.	HIL ACEIAIE	- 						
Туре	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 concentratio	Predicted no-effect concentration - PNEC.							
Normal value for the terrestrial of Normal value in fresh water Normal value for water, intermitt Normal value for marine water Normal value for fresh water set Normal value for marine water so Normal value of STP microorga	ent release diment ediment nisms			0,29 0,635 6,35 0,0635 3,29 0,329 100		mg/kg mg/l mg/l mg/kg mg/l mg/l		
Health - Derived no-effect	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	1,67 mg/kg				
Inhalation.			VND	33 mg/m3			VND	272 mg/m3
Skin.			VND	54,8 mg/kg			VND	153,5 mg/kg
CYCLOHEXANONE Threshold Limit Value.								
Type	Country	TWA/8h		STEL/15min				

mg/m3

ppm

mg/m3

ppm

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OEL	EU	40,8	10	81,6	20	SKIN		
OEL	IRL	40,8	10	81,6	20	SKIN		
TLV-ACGIH		80	20	201	50	orari		
WEL	UK	41	10	82	20	SKIN		
Predicted no-effect concentration			10	02	20	Grant		
Normal value for the terrestrial co				0,0143		mg/k	ία	
Normal value in fresh water				0,0329		mg/l	-9	
Normal value in marine water Normal value for fresh water sedi	iment			0,0329 0,0951		mg/l mg/l		
Health - Derived no-effect l	evel - DNEL / I Effects on	DMEL			Effects on			
	consumers.		.	- · ·	workers			.
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation.							120 mg/m3	20 mg/m3
Skin.							VND	20 mg/kg/d
BUTYLGLYCOL ACETATE								
Threshold Limit Value.	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	133	20	333	50	SKIN		
OEL	IRL	133	20	333	50	SKIN		
TLV-ACGIH		131	20					
WEL	UK	133	20	332	50	SKIN		
Predicted no-effect concentration			20			U		
Normal value for the food chain (Normal value for the terrestrial cc Normal value in fresh water Normal value for water, intermitte Normal value in marine water sed Normal value for fresh water sed Normal value of STP microorgan	ompartment ent release iment ediment	0		0,06 0,06 0,304 0,56 0,0304 2,03 0,203 90		g/kg g/kg mg/l mg/l mg/l mg/l mg/l		
Health - Derived no-effect l	evel - DNEL / I	DMEL		00		iiig/i		
	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
Dral.	VND	18 mg/kg/d	VND	4,3 mg/kg/d		Systemic		Systemic
nhalation. Skin.	166 mg/m3	499 mg/m3	VND VND	67 mg/m3 36 mg/kg/d	333 mg/m3 102 mg/kg/d	773 mg/m3 27 mg/kg/d	VND VND	133 mg/m3 102 mg/kg/d
4-HYDROXY-4-METHYLPE	NTAN-2-ONE							
Threshold Limit Value.	Country	TWA/8h		STEL/15min				
1 900	Country		nnm		nnm			
DEL	IRL	mg/m3	ppm	mg/m3	ppm			
JEL TLV-ACGIH	IRL	240 238	50	360	75			
WEL			50	362	75			
	UK	241	50	362	75			
Aromatic hydrocarbons, C9 Threshold Limit Value.		TWA/8h		STEL/15min				
Aromatic hydrocarbons, C9 Threshold Limit Value.	9 Country		ppm		ppm			
Aromatic hydrocarbons, C Threshold Limit Value. Type TLV-ACGIH		TWA/8h mg/m3 100	ppm 20	STEL/15min mg/m3 250	ppm 50			

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	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	11 mg/kg				
Inhalation.			VND	32 mg/m3			VND	150 mg/m3
Skin.			VND	11 mg/kg			VND	25 mg/kg
N-BUTYL ACETATE								
Threshold Limit Value.								
Type	Country	TWA/8h		STEL/15min				

туре	Country	I WAVOII		STEL/TSHIII	
		mg/m3	ppm	mg/m3	ppm
OEL	IRL	710	150	950	200
TLV-ACGIH		713	150	950	200
WEL	UK	724	150	966	200

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 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 airtight protective 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.

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

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

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance Colour	liquid various
Odour Odour threshold	typical of solvent Not available.
pH.	Not available.
Melting point / freezing point.	Not available.
Initial boiling point.	> 115 °C.
Boiling range.	Not available.
Flash point.	> 23 °C.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	Not available.
Solubility	insoluble
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	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. 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. N-BUTYL ACETATE: decomposes readily with water, especially when warm.

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.

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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.

N-BUTYL ACETATE: risk of explosion on contact with: strong oxidising agents. Can react dangerously with alkaline hydroxides, potassium tert-butoxide. 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. 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. N-BUTYL ACETATE: avoid exposure to moisture, sources of heat and naked flames.

10.5. Incompatible materials.

1-METHOXY-2-PROPANOL ACETATE: oxidising agents, strong acids and alkaline metals. N-BUTYL ACETATE: water, nitrates, strong oxidising agents, acids and alkalis and potassium tert-butoxide.

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.

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. Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Vapour inhalation may moderately irritate the upper respiratory trait. Contact with skin may cause slight irritation.

Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

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.

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.

N-BUTYL ACETATE:in humans the substance's vapours cause irritation to the eues and nose. In the event of repeated exposure, there is skin irritation, dermatosis (with driness and flaking of the skin) and keratitis.

Amines, coco alkyldimethyl, N-oxides LD50 (Oral). > 2000 mg/Kg 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

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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

N-BUTYL ACETATE LD50 (Oral). > 6400 mg/kg Rat LD50 (Dermal). > 5000 mg/kg Rabbit LC50 (Inhalation). 21,1 mg/l/4h Rat

BUTYLGLYCOL ACETATE LD50 (Oral). 2000 mg/Kg Ratto / Rat LD50 (Dermal). 2000 mg/Kg Coniglio / Rabbit

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

quaternary ammonium eto sulphate LD50 (Oral). 940 mg/Kg Topo / Mouse

SECTION 12. Ecological information.

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment. 12.1. Toxicity. M-Factor Quaternary ammonium compounds, coco alkylethyldimethyl, ethyl sulfates Acute aquatic toxicity = 1(according to the Globally Harmonized System (GHS) and Regulation (EC) No 1272/2008) amines, coco alkyldimethyl Acute aquatic toxicity = 1 (according to the Globally Harmonized System (GHS) and Regulation (EC) No 1272/2008). Amines, coco alkyldimethyl, N-oxides LC50 - for Fish. 12,6 mg/l/96h Salmo gairdneri EC50 - for Crustacea. 2,9 mg/l/48h Daphnia magna 2-METHOXY-1-METHYLETHYL ACETATE LC50 - for Fish. 134 mg/l/96h Pesce, Oncorhynchus mykiss OECD 203 EC50 - for Crustacea. > 500 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants. > 1000 mg/l/72h Selenastrum capricornutum OECD 201 Chronic 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 4-HYDROXY-4-METHYLPENTAN-2-ONE LC50 - for Fish. > 100 mg/l/96h Fish EC50 - for Crustacea. > 1000 mg/l/48h Daphnia magna

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CYCLOHEXANONE EC50 - for Crustacea. 527 mg/l/48h Fish, Pimephales promelas (96h)

N-BUTYL ACETATE LC50 - for Fish. 18 mg/l/96h Fish EC50 - for Crustacea. 44 mg/l/48h Daphnia Magna BUTYLGLYCOL ACETATE

LC50 - for Fish. > 10 mg/l/96h Fish 10-100 mg/kg (48h) EC50 - for Crustacea. > 100 mg/l/48h Daphnia Magna (24h) EC50 - for Algae / Aquatic Plants. > 100 mg/l/72h Scenedesmus subspicatus Aromatic hydrocarbons, C9 LC50 - for Fish. > 1 mg/l/96h ALGHE: TOSSICO: 1< LC/EC/IC50 <= 10 mg/l

> 1 mg/l/96h ALGHE: TOSSICO: 1 < LC/EC/IC50 <= 10 mg/l
 EC50 - for Crustacea.
 > 10 mg/l/48h INVERTEBRATI ACQUATICI: TOSSICO: 1 < LC/EC/IC50 <= 10 mg/l
 EC50 - for Algae / Aquatic Plants.
 > 100 mg/l/72h PESCE: TOSSICO: 1 < LC/EC/IC50 <= 10 mg/l

12.2. Persistence and degradability.

Ultimate aerobic biodegradability Completely biodegradable 71% - 28 d Method: According to ISO 14593 Unpublished internal reports.

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

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

CYCLOHEXANONE Rapidly biodegradable.

BUTYLGLYCOL ACETATE Rapidly biodegradable.

Aromatic hydrocarbons, C9 Rapidly biodegradable.

quaternary ammonium eto sulphate Entirely biodegradable. 12.3. Bioaccumulative potential.

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

12.4. Mobility in soil.

Information not available.

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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.

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.

	d rail transport: ADR/RID Class:	3	UN:	1210
	Packing Group:	III		
	Label:	3		
	Nr. Kemler:	30		
	Limited Quantity.	5 L		
	Tunnel restriction code.	(D/E)		
	Proper Shipping Name:	PRINTING IN	IK or PRINTING INK RELATED N	IATERIAL
	Special Provision:	640E		
arriage	by sea (shipping):	3	LIN-	1210
arriage	IMO Class:	3	UN:	1210
arriage	IMO Class: Packing Group:	III	UN:	1210
arriage	IMO Class:	III 3	UN:	1210
arriage	IMO Class: Packing Group:	III 3 F-E, S-D	UN:	1210
arriage	IMO Class: Packing Group: Label:	III 3	UN:	1210
arriage	IMO Class: Packing Group: Label: EMS:	III 3 F-E, S-D NO	UN: IK or PRINTING INK RELATED N	
	IMO Class: Packing Group: Label: EMS: Marine Pollutant.	III 3 F-E, S-D NO	-	

C	COMEC ITALIA SRL		Revision nr. 8 Dated 01.06.2015
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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:	PRINTING INK	or PRINTING INK RELATED MATE	ERIAL
SECTION 15. Regulatory info	rmation.		
15.1. Safety, health and environmental r	egulations/legislation specific	for the substance or mixture.	
Seveso category. 6			
Restrictions relating to the product or contair	ned substances pursuant to Anne	ex XVII to EC Regulation 1907/2006	<u>).</u>
Product. Point. 3 -	40		
Substances in Candidate List (Art. 59 REAC			
	<u></u>		
None.			
Substances subject to authorisarion (Annex	<u>XIV REACH).</u>		
None.			
Substances subject to exportation reporting	pursuant to (EC) Reg. 649/2012:		
None.			
Substances subject to the Rotterdam Conve	ntion:		
None.			
Substances subject to the Stockholm Conve	ntion:		
None.			
Healthcare controls.			
Workers exposed to this chemical agent mu workers' health and safety are modest and the	st not undergo health checks, pro nat the 98/24/EC directive is resp	ovided that available risk-assessme pected.	ent data prove that the risks related to the
15.2. Chemical safety assessment.			
No chemical safety assessment has been pr	ocessed for the mixture and the	substances it contains.	

SECTION 16. Other information.

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

Flam. Liq. 3	Flammable liquid, category 3
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 Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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

R10	FLAMMABLE.
R20	HARMFUL BY INHALATION.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R22	HARMFUL IF SWALLOWED.
R36	IRRITATING TO EYES.
R37	IRRITATING TO RESPIRATORY SYSTEM.
R38	IRRITATING TO SKIN.
R41	RISK OF SERIOUS DAMAGE TO EYES.
R50	VERY TOXIC TO AQUATIC ORGANISMS.
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.

COMEC ITALIA SRL Perform : 8 Revision R: 8 Developing 2005 2015 SERIE PLT22 Primad on 01.05.2015 Page n. 15/15 Page n. 15/15 LEGEND: - ADR: European Agreement concerning the carriage of Dangerous goods by Road - Cost NUMBER: Chemical Abstract Service Number COSN DEflective concentration (required to induce a 60% effect) - Cost NUMBER: Chemical Abstract Service Number COBE: Deflective concentration (required to induce a 60% effect) - Cost NUMBER: Chemical Service Number COBE: Derived No Effect Level - Fors: European Schedule
SERIE PLT22 Primed on 01.08.2015 Page n. 15:15 Page n. 15:15 LEGEND: - ADR: European Agreement concerning the carriage of Dangerous goods by Road - Cash NUMBER: Chemical Abstract Service Number CESN Differ. Chemical Abstract Service Number - Cash NUMBER: Chemical Abstract Service Number - Cash NUMBER: Chemical Abstract Service Number CESN Differ. Chemical Abstract Service Number - Cash NUMBER: Chemical Identifier in ESIS (European archive of existing substances) - Cash NUMBER: Not Reflect Level OHL: Derived No Effect Level - Cash Signature No Effect Level - Cash Signature Not Reflect Level OHL: Derived No Effect Level - Cash Signature No Effect Level - Cash Signature Not Reflect Level OHL: Derived No Effect Level - Cash Signature Not Reflect Level - Cash Signature Not Reflect Level OHD: International Martime Crganization - None Not Chematonian Martime Crganization - None Not
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 - GHS: Globally Harmonized System of classification and labeling of chemicals - IATA DGR: International Antime Code for dangerous goods - IMOC: International Maritime Code for dangerous goods - IMO: International Maritime Code for dangerous goods - IDSO: Lethal Concentration 50% - CDSO: Lethal Concentration 50% - DEC: Predicted environmental Concentration - PEC: Predicted environmental Concentration - PEC: Predicted now from table and txxic as REACH Regulation - PEC: Predicted now from table concentration - REACH: EC Regulation 1907/2006 - REACH: EC Regulation concerning the international transport of dangerous goods by train - TU: VC TILING: Concentration that should not be exceeded during any time of occupational exposure. - TWA: Sine-weighted average exposure limit - VOC: Volatile organic Compounds - VPB: Very Persistent and very Bioaccumulative as for REACH Regulation - WA: Time-weighted average exposure limit - VOC: Volatile organic Compounds - VPB: Very Persistent and very Bioaccumulative as for REACH Regulation - WGK: Water hazard classes (German). - GENERAL BIBLIOGRAPHY 1. Directive 1999/45/EC and following amendments and adjustments 3. Regulation (EC) 1727/2006 (REACH) of the European Parliament 5. Regulation (EC) 1727/2006 (REACH) of the European Parliament 7. Regulation (EC) 278/2002 (UP) of the European Parliament 7. Regulation (EC) 458/2012 (UP) of the European Parliament 7. Regulati
 IATA DGR: International Air Transport Association Dangerous Goods Regulation IGS0: Immobilization Concentration 50% IMDC International Maritime Code for dangerous goods IMD: International Maritime Cryptic Particle Parti
 LCS0: Immobilization Concentration 50% LMDC: International Maritime Code for dangerous goods IMO: International Maritime Code for dangerous goods IMO: International Maritime Code for dangerous goods LDS2: NUMBER: Identifies in Annex VI of CLP LCS0: Lethal Concentration 50% LDS0: Lethal Concentration 50% CDE: Occupational Exposure Level PB: Persistent bioaccumulative and txxic as REACH Regulation PEC: Predicted environmental Concentration PEC: Predicted onvironmental Concentration PEC: Predicted onvironmental Concentration PEC: Predicted onvironmental Concentration REACH: EC Regulation 1907/2006 RED: Regulation concerning the international transport of dangerous goods by train TU: VCEILNG: Concentration that should not be exceeded during any time of occupational exposure. TWA STIE: Short-term exposure limit VOC: Volatile organic Compounds vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation vPVB: Very Persistent and very Bioaccumulative as for REACH Regulation vWGX: Water hazard classes (German). GENERAL BIBLIOGRAPHY Directive 57/544/ECC and following amendments Regulation (EC) 1972/2006 (REACH) of the European Parliament Regulation (EC) 1972/2006 (REACH) of the European Parliament Regulation (EC) 453/2003 (LP) of the European Parliament Regulation (EC) 67/202009 (I Ap. CLP) of the European Parliament Regulation (EC) 67/202009 (I Ap. CLP) of the European Parliament Regulation (EC) 67/202009 (I Ap. CLP) of the European Parliament Regulation (EC) 67/202009 (I Ap. CLP) of the European Parliament Regulation (EC) 67/202009 (I Ap. CLP) of the European Parliament Regulation (EC) 67/202009 (I Ap. CLP) of the European Parliament Regulation (EC) 67/845/ECC and following amendments Regulation (EC
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Changes to previous review: The following sections were modified: 02 / 09 / 16.