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COMEC	CITALIA SRL	Revision nr. 2
		Dated 7/1/2015
SERIE PI TZ	' : METALLIZZATI	Printed on 01.06.2015
OEINET ET/		Page n. 1/17
	Cofety data also at	
	Safety data sheet	
CECTION 4. Identification of the out		
SECTION 1. Identification of the sur	ostance/mixture and of the company/under	такілд
1.1. Product identifier		
Product name	SERIE PLT7 : METALLIZZATI	
1.2. Relevant identified uses of the substance or Intended use Pad printing ink.	mixture and uses advised against	
1.3. Details of the supplier of the safety data shee		
Name Full address	COMEC ITALIA SRL PIAZZALE DEL LAVORO N. 149	
District and Country	21044 CAVARI A (VA)	
	ITALIA	
	Tel. 0331 219516	
	Fax 0331 216161	
e-mail address of the competent person		
responsible for the Safety Data Sheet	info@comec-italia.it	
Product distribution by	EDGARDO BAGGINI	
1.4. Emergency telephone number		
For urgent inquiries refer to	+39 0331 219516 (8.00 - 12.30 13.30 - 17.30)	
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

Flam. Liq. 3	H226
Asp. Tox. 1	H304
Aquatic Acute 1	H400
Aquatic Chronic 2	H411

2.1.2. 67/548/EEC and 1999/45/EC Directives and following amendments and adjustments. Danger Symbols: Xn-N R phrases:

10-20/21-51/53-65

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.

		ITALIA SF		Dated 7/1/2015
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				Page n. 2/17
ard pictograms:				
\wedge				
<u>(@)</u> (ふ〉〈峚〉			
\checkmark	\vee \vee			
Signal words:	Danger			
azard statements:				
H226	Flammable liquid and vapo			
H304 H400	May be fatal if swallowed a Very toxic to aquatic life.		ys.	
H411	Toxic to aquatic life with lo	ng lasting effects	5.	
ecautionary statemen	ts:			
P210	Keep away from heat / spa	arks / open flame	es / hot surfaces. No smoking.	
P233 P280	Keep container tightly clos Wear protective gloves / p		/ eye protection / face protection.	
P301+P310 P303+P361+P353	IF SWALLOWED: Immedia	ately call a POIS	ON CENTER or doctor / physician. mediately all contaminated clothing	Rinse skin with water / shower
9370+P378	In case of fire: Use CO2, c			. Kinse skin with water / shower.
Contains:	XYLENE (MIXTURE OF IS	SOMERS)		
2.3. Other hazards.				
formation not available	ә.			
SECTION 3. Co	mposition/information	n on ingred	ients.	
3.1. Substances.				
formation not relevant				
3.2. Mixtures.				
ontains:				
ontains: Identification. BUTYLGLYCOL ACE	TATE	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP)
Identification. BUTYLGLYCOL ACE CAS. 112-07-2	TATE	Conc. %. 18 - 19,5	Classification 67/548/EEC.	Classification 1272/2008 (CLP) Acute Tox. 4 H312, Acute Tox. 4 H332
dentification. BUTYLGLYCOL ACE CAS. 112-07-2 EC. 203-933-3				
dentification. BUTYLGLYCOL ACE CAS. 112-07-2 EC. 203-933-3 NDEX. 607-038-00-	2			
dentification. BUTYLGLYCOL ACE CAS. 112-07-2 EC. 203-933-3 NDEX. 607-038-00- Reg. no. 01-2119475	2 5112-47xxxx			
Identification. BUTYLGLYCOL ACE CAS. 112-07-2 EC. 203-933-3 INDEX. 607-038-00- Reg. no. 01-2119475 ALUMINIUM POWDE CAS. 7429-90-5	2 5112-47xxxx			
Identification.	2 5112-47xxxx R (STABILIZED)	18 - 19,5	Xn R20/21	Acute Tox. 4 H312, Acute Tox. 4 H332

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2-METHOXY-1-METHYLETHYL ACETATE			
CAS. 108-65-6 EC. 203-603-9	7 - 8	R10	Flam. Liq. 3 H226
INDEX. 607-195-00-7			
Reg. no. 01-2119475791-29-xxxx			
XYLENE (MIXTURE OF ISOMERS)			
CAS. 1330-20-7	5 - 6	R10, Xn R20/21, Xn R48/20, Xn R65, Xi R36/37/38, Note C	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335,
EC. 215-535-7			Note C
INDEX. 601-022-00-9			
Reg. no. 01-2119488216-32xxxx			
COPPER			
CAS. 7440-50-8 EC. 231-159-6	4,5 - 5	Xn R22, N R50/53	Acute Tox. 4 H302, Aquatic Acute 1 H400 M=10
INDEX			
HYDROCARBONS, C10-C13, n-alkanes, soalkanes, CYCLIC, <2% AROMATIC			App. Tev. 4 1/204 [111/000
CAS EC. 918-481-9	2,5 - 3	R66, Xn R65	Asp. Tox. 1 H304, EUH066
INDEX			
Reg. no. 01-2119457273-39-xxxx			
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			
ETHYLBENZENE			
CAS. 100-41-4 EC. 202-849-4	1 - 1,5	F R11, Xn R20	Flam. Liq. 2 H225, Acute Tox. 4 H332
INDEX. 601-023-00-4			
Reg. no. 01-2119489370-35-xxxx			
ZINC POWDER - ZINC DUST			
CAS. 7440-66-6	1 - 1,5	N R50/53	Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10
EC. 231-175-3			
INDEX. 030-001-01-9			
Reg. no. 01-2119467174-37			
Amines, hydrogenated tallow alkyl			
CAS. 61788-45-2	0 - 0,1	Xn R48/22, Xi R38, Xi R41, N R50	STOT RE 2 H373, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=10
EC. 262-976-6			
INDEX			
Reg. no. 01-2119473799-15**			
ote: Upper limit is not included into the range.			
he full wording of the Risk (R) and hazard (H) phras + = Very Toxic(T+), T = Toxic(T), Xn = Harmfu lammable(F+), F = Highly Flammable(F), N = Dange	I(Xn), C = Corrosive	(C), Xi = Irritant(Xi), O = Oxidi	zing(O), E = Explosive(E), F+ = Extrem

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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.

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.

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.

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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. 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:

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

BUTYLGLYCOL ACETATE

Threshold Limit Value. Type	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

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					Page r	1. 0/1/		
TLV-ACGIH		131	20					
WEL	UK	133	20	332	50	SKIN		
Predicted no-effect concentration	- PNEC.							
Normal value for the food chain (Normal value for the terrestrial co Normal value in fresh water Normal value for water, intermitte Normal value for marine water Normal value for fresh water sedi Normal value of STP microorgan	ompartment int release ment idiment isms			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 lo	evel - DNEL / D Effects on	MEL			Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral.	VND		VND	systemic 4,3 mg/kg/d		systemic		systemic
Inhalation.	166 mg/m3	18 mg/kg/d 499 mg/m3	VND	4,3 mg/kg/u 67 mg/m3	333 mg/m3	773 mg/m3	VND	133 mg/m3
Skin.	100 mg/mo	400 mg/mo	VND	36 mg/kg/d	102 mg/kg/d	27 mg/kg/d	VND	102 mg/kg/d
ALUMINIUM POWDER (STA	BILIZED)							
Threshold Limit Value.		TWA/8h		STEL/15min				
Туре	Country	mg/m3	nnm	mg/m3	DDM			
OEL	IRL	1	ppm	mg/ma	ppm			
OEL TLV-ACGIH	IRL	1	0,9					
WEL	UK	4	0,9					
VV CL	UN	4						
2-METHOXY-1-METHYLETH								
2-METHOXY-1-METHYLETF Threshold Limit Value.	TIL AGETATE							
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 concentration	- PNEC.							
Normal value for the terrestrial compartment Normal value in fresh water Normal value for water, intermittent release Normal value in marine water Normal value for fresh water sediment Normal value for marine water sediment Normal value of STP microorganisms				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 le	evel - DNEL / D Effects on	MEL			Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic systemic	workers 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
XYLENE (MIXTURE OF ISO	MERS)							
Threshold Limit Value.	ŕ	T14/4 (2)						
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
OEL	IRL	221	50	442	100	SKIN		
OEL	EU	221	50	442	100	SKIN		

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TLV-ACGIH		434	100	651	150	
WEL	UK	220	50	441	100	
	-	==0			100	
Predicted no-effect conce	ntration - PNEC.					
Normal value for the terre				2,31		mg/kg
Normal value in fresh wat				0,327		mg/l
Normal value for water, in				0,327		mg/l
Normal value in marine w				0,327		mg/l
Normal value for fresh wa				12,46		mg/kg
Normal value for marine v				12,46		mg/kg
Normal value of STP micr				6,58		mg/l
Health - Derived no-e						
	Effects on				Effects on	

nealth - Derived no-effect le	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	1,6 mg/kg/d				
Inhalation. Skin.	174 mg/m3	174 mg/m3	VND VND	14,8 mg/m3 108 mg/kg/d	289 mg/m3 174 mg/m3	289 mg/m3 VND	77 mg/m3 VND	77 mg/m3 180 mg/kg

COPPER												
Threshold Limit Value.												
Туре	Country	TWA/8h		STEL/15min								
		mg/m3	ppm	mg/m3	ppm							
OEL	IRL	1		2								
TLV-ACGIH		0,2										
WEL	UK	1		2								
Predicted no-effect concentratio	Predicted no-effect concentration - PNEC.											
Normal value for the terrestrial c Normal value in fresh water Normal value in marine water Normal value for fresh water sec Normal value for marine water s Normal value of STP microorgan	diment ediment			65,5 0,0078 0,0052 87 676 0,23		mg/kg mg/l mg/l mg/kg mg/kg mg/l]					
Health - Derived no-effect	level - DNEL / E Effects on consumers.	DMEL			Effects on workers							
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic				
Inhalation.	VND	20 mg/m3		· · ·	VND	20 mg/m3						
Skin.	VND	273 mg/kg			VND	273 mg/kg	VND	137 mg/kg				

HYDROCARBONS, C10-C13	HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC										
Threshold Limit Value.											
Туре	Country	TWA/8h		STEL/15min							
		mg/m3	ppm	mg/m3	ppm						
TLV-ACGIH		1200	184								

Country	TWA/8h		STEL/15min								
	mg/m3	ppm	mg/m3	ppm							
	100	20	250	50							
Health - Derived no-effect level - DNEL / DMEL											
Effects on consumers.				Effects on workers							
Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic				
		VND	11 mg/kg								
		VND	32 mg/m3			VND	150 mg/m3				
	I - DNEL / DN iffects on onsumers.	mg/m3 100 I - DNEL / DMEL ffects on onsumers.	mg/m3 ppm 100 20 I - DNEL / DMEL iffects on onsumers. acute local Acute systemic Chronic local VND	mg/m3 ppm mg/m3 100 20 250 I - DNEL / DMEL Iffects on onsumers. Acute systemic VND 11 mg/kg	mg/m3 ppm mg/m3 ppm 100 20 250 50 I - DNEL / DMEL Effects on onsumers. Effects on workers Acute systemic Chronic local Chronic systemic VND 11 mg/kg	mg/m3 ppm mg/m3 ppm 100 20 250 50 I - DNEL / DMEL (ffects on onsumers. Acute local Effects on workers Acute local Effects on workers Acute local Acute systemic VND 11 mg/kg 11 mg/kg	mg/m3 ppm mg/m3 ppm 100 20 250 50 I - DNEL / DMEL (ffects on onsumers. Acute local Effects on workers Acute local Effects on workers Acute local Chronic local Kute local Acute systemic Chronic local Chronic systemic Acute local Acute systemic Chronic local				

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Skin.			VND	11 mg/kg			VND	25 mg/kg
ETHYLBENZENE								
Threshold Limit Value. Type	Country	TWA/8h		STEL/15min				
туре	Country							
		mg/m3	ppm	mg/m3	ppm			
TLV-ACGIH		87	20					
WEL	UK	441	100	552	125	SKIN		
OEL	EU	442	100	884	200	SKIN		
OEL	IRL	442	100	884	200	SKIN		
ZINC POWDER - ZINC DUS	ST							
Predicted no-effect concentratio	n - PNEC.							
Normal value for the terrestrial compartment Normal value in fresh water Normal value in marine water Normal value for fresh water sediment Normal value for marine water sediment Normal value of STP microorganisms			35,6 0,0206 0,0061 117,8 56,5 0,052		mg/kg mg/l mg/l mg/kg mg/kg mg/l	I		
Health - Derived no-effect	level - 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
Oral.			VND	0,83 mg/kg				
Inhalation.			VND	2,5 mg/m3			VND	5 mg/m3
Skin.			VND	83 mg/kg			VND	83 mg/kg

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

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

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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.

Solid content.

46,60 %

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.

10.2. Chemical stability.

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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.

ZINC POWDER - ZINC DUST: risk of explosion on contact with: ammonium nitrate, ammonium sulphide, barium peroxide, lead nitride, chlorates, chromium trioxide, sodium hydroxide solutions, oxidising agents, performic acid, acids, tetrachloromethane, water. May react dangerously with alkali hydroxides, bromine pentafluoride, calcium chloride solution, fluorine, hexachloroethane, nitrobenzene, potassium dioxide, carbon disulphide, silver. Reacts with acids and strong alkalis developing hydrogen.

XYLENE (MIXTURE OF ISOMERS): stable, but may develop violent reactions in the presence of strong oxidising agents such as sulphuric and nitric acids and perchlorates. May form explosive mixtures with the air.

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

ETHYLBENZENE: reacts violently with strong oxidising agents and attacks various types of plastics. Can form 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.

10.5. Incompatible materials.

ZINC POWDER - ZINC DUST: water, strong alkalis and acids. 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.

ETHYLBENZENE: methane, styrene, hydrogen, ethane.

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. The introduction of even small quantities of this liquid into the respiratory system in case of ingestion or vomit may cause bronchopneumonia and pulmonary edema.

XYLENE (MIXTURE OF ISOMERS): has a toxic effect on the CNS (encephalopathies). Irritating to the skin, conjunctivae, cornea and respiratory apparatus.

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.

ETHYLBENZENE: like the benzene homologues, may exert an effect on the CNS with depression, narcosis, often preceded by dizziness and accompanied by headache. It is irritating to the skin, conjunctivae and respiratory apparatus.

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polyester polyol LD50 (Oral). > 2000 mg/kg Ratto / Rat

HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC LD50 (Oral). > 5000 mg/kg bw Rat LD50 (Dermal). > 2000 mg/kg bw Rat LC50 (Inhalation). > 50000 mg/m3 8h Rat

ALUMINIUM POWDER (STABILIZED) LC50 (Inhalation). > 5 mg/l Ratto / Rat (4h)

ZINC POWDER - ZINC DUST LD50 (Oral). > 2000 mg/Kg Ratto / Rat LC50 (Inhalation). 5,41 mg/l Ratto / Rat (4h)

XYLENE (MIXTURE OF ISOMERS) LD50 (Oral). 5627 mg/kg Rat LD50 (Dermal). > 5000 mg/kg Rabbit LC50 (Inhalation). 20 mg/l/4h 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

ETHYLBENZENE LD50 (Oral). 3500 mg/kg Rat LD50 (Dermal). 15354 mg/kg Rabbit LC50 (Inhalation). 17,2 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

SECTION 12. Ecological information.

This product is dangerous for the environment and highly toxic for aquatic organisms.

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.

polyester polyol LC50 - for Fish. > 100 mg/l/96h Danio rerio EC50 - for Crustacea. > 100 mg/l/48h Daphnia magna

HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC LC50 - for Fish. > 1000 mg/l/96h Oncorthyncus mykiss OECD 203 EC50 - for Crustacea. > 1000 mg/l/48h Daphnia magna

ZINC POWDER - ZINC DUST LC50 - for Fish. 7,1 mg/l/96h Nothobranchius guentheri EC50 - for Crustacea.

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2,8 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants. 0,015 mg/l/72h Pseudokirchneriella subcapitata XYLENE (MIXTURE OF ISOMERS) LC50 - for Fish. 2.6 mg/l/96h Fish EC50 - for Crustacea. 1 mg/l/48h Daphnia magna EC10 for Algae / Aquatic Plants. 1,9 mg/l/72h Selenastrum capricornutum 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 ETHYLBENZENE LC50 - for Fish. 4,2 mg/l/96h Oncorhynchus mykiss OECD TG 203 EC50 - for Crustacea. 2,9 mg/l/48h Daphnia magna (database Ecotox) EC50 - for Algae / Aquatic Plants. 4.6 mg/l/72h Pseudokirchneriella subcapitata (IUCLID) 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 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. polyester polyol NOT rapidly biodegradable. HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC Rapidly biodegradable. XYLENE (MIXTURE OF ISOMERS) Rapidly biodegradable.

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

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Rapidly biodegradable.

ETHYLBENZENE Rapidly biodegradable.

BUTYLGLYCOL ACETATE Rapidly biodegradable.

Aromatic hydrocarbons, C9 Rapidly biodegradable. 12.3. Bioaccumulative potential.

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

ETHYLBENZENE Partition coefficient: n-octanol/water. 3,15 mg/l 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.

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:

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UN:

1210



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) JUL				
\sim	Packing Group:	Ш		
	Label:	3		
	Nr. Kemler:	30		
	Limited Quantity.	5 L		
	Tunnel restriction code.	(D/E)		
	Proper Shipping Name:	PRINTING INK of	r PRINTING INK RELATED MATER	RIAL
	Special Provision:	640E		
Carriage	by sea (shipping): IMO Class:	3	UN:	1210
	Packing Group:	III		
	Label:	3		
	EMS:	F-E, S-D		
	Marine Pollutant.	YES		
	Proper Shipping Name:	PRINTING INK of	r PRINTING INK RELATED MATER	RIAL (COPPER)
Transpo	rt by air:			
۲	IATA:	3	UN:	1210
	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	r PRINTING INK RELATED MATER	RIAL
	For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.			

SECTION 15. Regulatory information.

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

Seveso category. 9ii, 6

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

Product. Point.

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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
Flam. Sol. 1	Flammable solid, category 1
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
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 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.

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H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
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.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

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

R10	FLAMMABLE.
R11	HIGHLY FLAMMABLE.
R20	HARMFUL BY INHALATION.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R22	HARMFUL IF SWALLOWED.
R36/37/38	IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
R37	IRRITATING TO RESPIRATORY SYSTEM.
R38	IRRITATING TO SKIN.
R41	RISK OF SERIOUS DAMAGE TO EYES.
R48/20	HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION.
R48/22	HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE IF SWALLOWED.
R50	VERY TOXIC TO AQUATIC ORGANISMS.
R50/53	VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R51/53	TOXIC 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:

- 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

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- 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

- Directive 1999/45/EC and following amendments
 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) 453/2010 of the European Parliament
- 7. Regulation (EC) 286/2011 (II 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 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:
- 01 / 02 / 03 / 04 / 07 / 08 / 09 / 10 / 11 / 12 / 15 / 16.