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	Safaty data abaat	
	Safety data sheet	
SECTION 1. Identification of the subs	stance/mixture and of the company/under	taking
1.1. Product identifier		
Product name	SERIE PLT47	
1.2. Relevant identified uses of the substance or mIntended usePad printing ink.	nixture and uses advised against	
1.3. Details of the supplier of the safety data sheet		
Name Full address	COMEC ITALIA SRL PIAZZALE DEL LAVORO 149	
District and Country	21044 CAVARIA VA	
	TALIA Tel. 0331 219516	
	Fax 0331 216161	
e-mail address of the competent person		
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
Asp. Tox. 1	H304
STOT RE 2	H373
Eye Irrit. 2	H319
Skin Irrit. 2	H315
STOT SE 3	H335

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

Danger Symbols: Xn R phrases:

10-20/21-36/37/38-48/20-65

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

2.2. Label elements.

	CO	MEC ITALIA SP	RL	Revision nr. 7
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azard labelling pursu azard pictograms:	uant to EC Regulation 127	2/2008 (CLP) and subse	equent amendments and supplemen	ts.
Signal words:	Danger			
azard statements:				
H226 H304 H373 H319 H315 H335 EUH208		llowed and enters airwa e to organs through prol e irritation. on. tory irritation.	ys. onged or repeated exposure.	
	May produce an al	lergic reaction.		
Precautionary stateme	ents:			
P210 P233 P264 P280 P301+P310 P304+P340	Keep container tigh Wash the hands th Wear protective glo IF SWALLOWED:	ntly closed. oroughly after handling. oves / protective clothing Immediately call a POIS	es / hot surfaces. No smoking. g / eye protection / face protection. GN CENTER or doctor / physician. nd keep at rest in a position comforta	ble for breathing.
Contains:	XYLENE (MIXTUR	E OF ISOMERS)		
2.3. Other hazards.				
nformation not availa	ble.			
SECTION 3. C	omposition/inforr	mation on ingred	lients.	
3.1. Substances.				
nformation not releva	nt.			
3.2. Mixtures.				
Contains:				
Identification.	OF ISOMERS)	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
XYLENE (MIXTURE		20 - 21,5	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,
XYLENE (MIXTURE CAS. 1330-20-7				Note C

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INDEX. 601-022-00-9			
Reg. no. 01-2119488216-32xxxx			
ETHYLBENZENE			
CAS. 100-41-4 EC. 202-849-4	6 - 7	F R11, Xn R20	Flam. Liq. 2 H225, Acute Tox. 4 H332
INDEX. 601-023-00-4			
Reg. no. 01-2119489370-35-xxxx			
BUTYLGLYCOL ACETATE			
CAS. 112-07-2 EC. 203-933-3	6 - 7	Xn R20/21	Acute Tox. 4 H312, Acute Tox. 4 H332
INDEX. 607-038-00-2			
Reg. no. 01-2119475112-47xxxx			
2-ETHOXY-1-METHYLETHYL ACETATE			
CAS. 54839-24-6 EC. 259-370-9	5 - 6	R10, R67	Flam. Liq. 3 H226, STOT SE 3 H336
INDEX. 603-177-00-8			
Reg. no. 01-2119475116-39xxxx			
Aromatic hydrocarbons, C9			
CAS. 64742-95-6	1 - 1,5	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			
TOLUENE			
CAS. 108-88-3	0,2 - 0,3	Repr. Cat. 3 R63, R67, F R11, Xn R48/20, Xn R65, Xi R38	Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336
EC. 203-625-9			
INDEX. 601-021-00-3			
Reg. no. 01-2119471310-51-XXXX			
neodecanoate 2,3-epoxypropyl			
CAS. 26761-45-5	0,2 - 0,3	Muta. Cat. 3 R68, Xi R43, N R51/53	Muta. 2 H341, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC. 247-979-2			
INDEX			
Reg. no. 01-2119431597-33			
2-METHOXY-1-METHYLETHYL ACETATE			
CAS. 108-65-6 EC. 203-603-9	0 - 0,1	R10	Flam. Liq. 3 H226
INDEX. 607-195-00-7			
Reg. no. 01-2119475791-29-xxxx			

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.

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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.

6.3. Methods and material for containment and cleaning up.

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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

XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Value. Type	Country	TWA/8h		STEL/15min		
туре	Country			STEL/TSHIII		
		mg/m3	ppm	mg/m3	ppm	
OEL	IRL	221	50	442	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	
WEL	UK	220	50	441	100	
Predicted no-effect concentration	- PNEC.					

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Normal value for the terrestrial of Normal value in fresh water Normal value for water, intermitt Normal value in marine water Normal value for fresh water sed Normal value for marine water s Normal value of STP microorga	tent release diment sediment nisms			2,31 0,327 0,327 0,327 12,46 12,46 6,58		mg/kg mg/l mg/l mg/kg mg/kg mg/kg	I	
Health - Derived no-effect	Effects on	MEL			Effects on workers			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral. Inhalation. Skin.	174 mg/m3	174 mg/m3	VND VND VND	systemic 1,6 mg/kg/d 14,8 mg/m3 108 mg/kg/d	289 mg/m3 174 mg/m3	systemic 289 mg/m3 VND	77 mg/m3 VND	systemic 77 mg/m3 180 mg/kg
ETHYLBENZENE Threshold Limit Value.		774/20						
Туре	Country	TWA/8h	nom	STEL/15min	nnm			
OEL	EU	mg/m3 442	ppm 100	mg/m3 884	200	SKIN		
OEL	IRL	442	100	884	200	SKIN		
TLV-ACGIH		87	20	00 r	200	ORIN		
WEL	UK	441	100	552	125	SKIN		
BUTYLGLYCOL ACETATE	_							
Threshold Limit Value.	-							
Туре	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 concentratio Normal value for the food chain Normal value for the terrestrial of Normal value in fresh water Normal value for water, intermitt Normal value in marine water so Normal value for fresh water set Normal value for marine water so Normal value of STP microorgan Health - Derived no-effect	(secondary poison compartment tent release diment sediment nisms			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		
Route of exposure	Effects on consumers. Acute local	Acute systemic	Chronic local	Chronic	Effects on workers Acute local	Acute	Chronic local	Chronic
Oral.	VND	18 mg/kg/d	VND	systemic 4,3 mg/kg/d		systemic		systemic
Inhalation. 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
2-ETHOXY-1-METHYLETH Predicted no-effect concentratio								
Normal value for the food chain Normal value for the terrestrial of Normal value in fresh water Normal value for water, intermitt Normal value in marine water Normal value for fresh water set Normal value for marine water so Normal value of STP microorgan Health - Derived no-effect	compartment tent release diment sediment nisms			117 1,34 1,3 0,13 6,4 0,64 62,5		mg/kg mg/kg mg/l mg/l mg/kg mg/kg mg/kg		

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	F (())				F ((),			
	Effects on consumers.				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral.			VND	systemic 13,1 mg/kg		systemic		systemic
Inhalation.	VND	365 mg/m3	VND	181 mg/m3	VND	608 mg/m3	VND	302 mg/m3
Skin.			VND	62 mg/kg			VND	103 mg/kg
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 le	evel - DNEL / DI	MEL						
	Effects on				Effects on			
Route of exposure	consumers. Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral.			VND	systemic 11 mg/kg		systemic		systemic
Inhalation.			VND	32 mg/m3			VND	150 mg/m3
Skin.			VND	11 mg/kg			VND	25 mg/kg
				55				- 5.5
TOLUENE								
Threshold Limit Value.								
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
OEL	EU	192	50	384	100	SKIN		
OEL	IRL	192	50	384	100	SKIN		
TLV-ACGIH		75,4	20					
WEL	UK	191	50	384	100	SKIN		
Predicted no-effect concentration	- PNEC.							
Normal value for the terrestrial co Normal value in fresh water	mpartment			2,31 0,327		mg/Kg mg/l	l	
Normal value for water, intermitter	nt release			0,327		mg/l		
Normal value in marine water Normal value for fresh water sedir	ment			0,327 12,46		mg/l mg/Kg	l	
Normal value for marine water ser Normal value of STP microorganis				12,46 6,58		mg/Kg mg/l	l	
Health - Derived no-effect le	evel - DNEL / DI	MEL		0,00		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
Oral.			VND	8,13 mg/Kg/d		Systemic		Systemic
Inhalation.	226 mg/m3	226 mg/m3	56,5 mg/m3	56,5 mg/m3	384 mg/m3	384 mg/m3	192 mg/m3	192 mg/m3
Skin.			VND	226 mg/Kg/d			VND	384 mg/Kg/d
neodecanoate 2,3-epoxypro Predicted no-effect concentration								
Normal value in fresh water				0,0035		mg/l		
Normal value for water, intermitter	nt release			0,035		mg/l		
Normal value in marine water Normal value of STP microorganis	sms			0,00035 50		mg/l mg/l		
Normal Value of OTT Thioroorgani								
Health - Derived no-effect le					Effects on			
Health - Derived no-effect le	Effects on consumers.				Effects on workers			-
	Effects on	Acute systemic	Chronic local	Chronic systemic		Acute systemic	Chronic local	Chronic systemic
Health - Derived no-effect le	Effects on consumers.		Chronic local VND		workers		Chronic local	
Health - Derived no-effect le	Effects on consumers.			systemic	workers		Chronic local	
Health - Derived no-effect le Route of exposure Oral.	Effects on consumers.		VND	systemic 1,1 mg/kg/d	workers			systemic

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Skin.			VND	0,7 mg/kg/d			VND	1,4 mg/kg/d
2-METHOXY-1-METHYLE	THYL ACETATE							
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	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 set Normal value for marine water Normal value of STP microorga	ttent release ediment sediment anisms			0,29 0,635 6,35 0,0635 3,29 0,329 100		mg/k mg/l mg/l mg/l mg/l mg/l	-	
Health - Derived no-effect	t level - DNEL / E Effects on	MEL			Effects on	Ĩ		
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

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Skin.

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.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

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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.

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

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

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. TOLUENE: breaks down in sunlight.

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.

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.

TOLUENE: risk of explosion on contact with fuming sulphuric acid, nitric acid, silver perchlorates, nitrogen dioxide, non-metal halogenides, acetic acid, organic nitrocompounds. Can form explosive mixtures with the air. May react dangerously with: strong oxidising agents, strong acids, sulphur (in the presence of heat).

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.

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.

This product may cause functional disorders or morphological mutations after repeated or prolonged exposure and/or may accumulate inside the human body and is thus graded as dangerous.

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.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly irritate the upper respiratory trait. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

Acute effects: vapour inhalation may irritate the lower and upper respiratory tract and cause cough and respiratory disorders. At higher concentrations it can also cause pulmonary edema. Ingestion may cause health problems, including stomach pain and sting, nausea and sickness.

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

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cular irritation on direct contact. No chronic effects have been reported in man.	
FOLUENE: it has a toxic effect on the central and peripheral nervous system (with encephalopat cornea and respiratory apparatus.	thies and polyneuritis). Irritating to the skin, conjunctivae

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.

neodecanoate 2,3-epoxypropyl LD50 (Oral). 9600 mg/Kg Ratto / Rat LD50 (Dermal). 3800 mg/Kg Coniglio / Rabbit

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

2-ETHOXY-1-METHYLETHYL ACETATE LD50 (Oral). > 5000 mg/Kg Ratto / Rat LD50 (Dermal). 13,42 ml/Kg Coniglio / Rabbit LC50 (Inhalation). 6,99 mg/l/4h Rat

TOLUENE LD50 (Oral). 5580 mg/kg Rat LD50 (Dermal). 12124 mg/kg Rabbit LC50 (Inhalation). 28,1 mg/l/4h 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.

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil, sewers and waterways. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

12.1. Toxicity.

neodecanoate 2,3-epoxypropyl LC50 - for Fish. 5 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea. 4,8 mg/l/48h Dapnhia Magna

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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 / Aguatic 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 2-ETHOXY-1-METHYLETHYL ACETATE LC50 - for Fish. 140 mg/l/48h Oncorhynchus mykiss (test 48h) EC50 - for Crustacea. 110 mg/l/48h Daphnia magna EC50 - for Algae / Aquatic Plants. > 100 mg/l/72h Scenedesmus subspicatus TOLUENE LC50 - for Fish. 5,8 mg/l/96h Oncorhynchus mykiss EC50 - for Algae / Aquatic Plants. 12,5 mg/l/72h Pseudokirchneriella subcapitata 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.

XYLENE (MIXTURE OF ISOMERS)

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Rapidly biodegradable.

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

2-ETHOXY-1-METHYLETHYL ACETATE Solubility in water. 6,96 g/l 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

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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 ar	nd rail transport: ADR/RID Class:	3	UN:	1210
V	Packing Group:	Ш		
	Label:	3		
	Nr. Kemler:	30		
	Limited Quantity.	5 L		
	Tunnel restriction code.	(D/E)		
	Proper Shipping Name:	PRINTING IN	IK or PRINTING INK RELATED MATER	IAL
	Special Provision:	640E		
Carriage	e by sea (shipping): IMO Class:	3	UN:	1210
3	Packing Group:	Ш		
	Label:	3		
	EMS:	F-E, S-D		
	Marine Pollutant.	NO		
	Proper Shipping Name:	PRINTING IN	IK or PRINTING INK RELATED MATER	IAL
Transpo	ort by air: 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:		IK or PRINTING INK RELATED MATER	IAL
		_		

SECTION 15. Regulatory information.

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

Seveso category.

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

Product. Point.

6

3 - 40

Contained substance.

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Point.

48

TOLUENE Reg. no.: 01-2119471310-51-XXXX

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
Muta. 2	Germ cell mutagenicity, category 2
Repr. 2	Reproductive toxicity, category 2
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 Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
H225	Highly flammable liquid and vapour.

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H226	Flammable liquid and vapour.
H341	Suspected of causing genetic defects.
H361d	Suspected of damaging the unborn child.
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.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
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.
R36/37/38	IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.
R37	IRRITATING TO RESPIRATORY SYSTEM.
R38	IRRITATING TO SKIN.
R43	MAY CAUSE SENSITISATION BY SKIN CONTACT.
R48/20	HARMFUL: DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE THROUGH INHALATION.
R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
Repr. Cat. 3	Reproductive toxicity, development, category 3.
R63	POSSIBLE RISK OF HARM TO THE UNBORN CHILD.
R65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
R66	REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING.
R67	VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.
Muta. Cat. 3	Mutagenicity, category 3.
R68	POSSIBLE RISK OF IRREVERSIBLE EFFECTS.

LEGEND:

ADR: European Agreement concerning the carriage of Dangerous goods by Road
CAS NUMBER: Chemical Abstract Service Number

- CE50: Effective concentration (required to induce a 50% effect)

- CE NUMBER: Identifier in ESIS (European archive of existing substances) - CLP: EC Regulation 1272/2008

DNEL: Derived No Effect Level

EmS: Emergency Schedule

GHS: Globally Harmonized System of classification and labeling of chemicals IATA DGR: International Air Transport Association Dangerous Goods Regulation

IC50: Immobilization Concentration 50%

IMDG: International Maritime Code for dangerous goods

IMO: International Maritime Organization

INDEX NUMBER: Identifier in Annex VI of CLP

- LC50: Lethal Concentration 50%

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- LD50: Lethal dose 50%
- **OEL: Occupational Exposure Level**
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. 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) 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: 02 / 07 / 11 / 12.