COME	C ITALIA SRL	Revision nr. 1
		Dated 10/03/2016
SERIE PLT3 NEW: 1080.	1081, 1082, 121, 132, 165, 65 NR	Printed on 10/03/2016
	,,,,,	Page n. 1/18
	Safety data sheet	
SECTION 1. Identification of the sul	bstance/mixture and of the company/und	ertaking
1.1. Product identifier Product name	SERIE PLT3 NEW: 1080, 1081, 1082, 121, 132, 165, 65	NR
	,,,	
1.2. Relevant identified uses of the substance or	mixture and uses advised against	
Intended use Pad printing ink.	_	
1.3. Details of the supplier of the safety data she	et	
Name	COMEC ITALIA SRL PIAZZALE DEL LAVORO 149	
Full address District and Country	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	CENTRO ANTIVELENI OSPEDALE NIGUARDA MILAN	O Tel. 02/66101029 (24/24b) -
	CENTRO ANTIVELENI POLICLINICO A.GEMELL ROM	
	0331 219516 (8.00-12.30 / 13.00-17.30)	

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.

Hazard classification and indication:		
Flammable liquid, category 3	H226	Flammable liquid and vapour.
Reproductive toxicity, effects on or via lactation	H362	May cause harm to breast-fed children.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 2	H411	Toxic to aquatic life with long lasting effects.

2.2. Label elements.

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

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JERIE	SERIE PLT3 NEW: 1080, 1081, 1082, 121, 132, 165, 65 NR						
Signal words:	Danger						
Hazard statements:							
H226 H362	Flammable liquid and vapour. May cause harm to breast-fed children.						
H318	Causes serious eye damage.						
H315 H317	Causes skin irritation. May cause an allergic skin reaction.						
H411	Toxic to aquatic life with long lasting effects.						
Precautionary statements							
P201 P210 P233 P280 P303+P361+P353 P310	Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition source Keep container tightly closed. Wear protective gloves / eye protection / face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin w Immediately call a POISON CENTER / doctor /						
Contains:	alkanes, C14-17, chloro CYCLOHEXANONE						
	Epoxy resin (number average molecular weight <=700)						
2.3. Other hazards.							
On the basis of available	data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.						
SECTION 3. Cor	nposition/information on ingredients.						
3.1. Substances.							
Information not relevant.							
3.2. Mixtures.							
Contains:							
Identification.	Conc. %. Classification 1272/2008						

Identification.	Conc. %.	Classification 1272/2008 (CLP).		
BUTYLGLYCOL ACETATE				
CAS. 112-07-2	19,5 - 21	Acute Tox. 4 H312, Acute Tox. 4 H332		
EC. 203-933-3				
INDEX. 607-038-00-2				
Reg. no. 01-2119475112-47xxxx				
2-METHOXY-1-METHYLETHYL ACETATE				
CAS. 108-65-6	13,5 - 15	Flam. Liq. 3 H226		

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			I
EC. 203-603-9			
INDEX. 607-195-00-7			
Reg. no. 01-2119475791-29-xxxx			
Epoxy resin (number average molecular weight <=700)			
CAS. 25068-38-6	8 - 9	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411	
EC. 500-033-5			
INDEX. 603-074-00-8			
Reg. no. 01-2119456619-26-xxxx			
CYCLOHEXANONE			
CAS. 108-94-1	4,5 - 5	Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315	
EC. 203-631-1			
INDEX. 606-010-00-7			
Reg. no. 01-2119453616-35-xxxx			
XYLENE (MIXTURE OF ISOMERS)			
CAS. 1330-20-7	4 - 4,5	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, Note C	
EC. 215-535-7			
INDEX. 601-022-00-9			
Reg. no. 01-2119488216-32xxxx			
Hydrocarbons, C10, aromatics, <1% naphtalene			
CAS	3 - 3,5	Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066	
EC. 918-811-1			
INDEX			
Reg. no. 01-2119463583-34-xxxx			
alkanes, C14-17, chloro			
CAS. 85535-85-9	2 - 2,5	Lact. H362, Aquatic Chronic 1	
EC 287 477 0		H410, EUH066	

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EC. 287-477-0 INDEX. 602-095-00-X Reg. no. 01-2119519269-33-0001

Note: Upper limit is not included into the range.

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

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.

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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.

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6.1. Personal precautions, protective equipment and emergency procedures.
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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.

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The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

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

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the 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:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА
		МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА № 13 от 30
		декември 2003 г
CZE	Česká Republika	Nařízení vlády č. 361/2007 Sb. kterým se stanoví podmínky ochrany
		zdraví při práci
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
DNK	Danmark	Graensevaerdier per stoffer og materialer
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en
		España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102

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GRB ITA POL	United Kingdom Italia Polska	EH40/2005 Workplace exposure limits Decreto Legislativo 9 Aprile 2008, n.81 ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia
		16 grudnia 2011r
SWE	Sverige	Occupational Exposure Limit Values, AF 2011:18
EU	OEL ĚU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014

BUTYLGLYCOL ACETATE

Threshold Limit Value.								
Туре	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	133		333		SKIN.		
TLV	CZE	130		300		SKIN.		
AGW	DEU	130	20	520	80	SKIN.		
MAK	DEU	66	10	132	20	SKIN.		
TLV	DNK	130	20			SKIN.		
VLA	ESP	133	20	333	50	SKIN.		
VLEP	FRA	66,5	10	333	50	SKIN.		
WEL	GRB	133	20	332	50	SKIN.		
TLV	ITA	133	20	333	50	SKIN.		
NDS	POL	100		300				
MAK	SWE	70	10	140	20	SKIN.		
OEL	EU	133	20	333	50	SKIN.		
TLV-ACGIH		131	20					
Predicted no-effect concentration	- PNEC.							
Normal value in fresh water Normal value in marine water Normal value for fresh water sed Normal value for marine water se Normal value for water, intermitte Normal value of STP microorgan Normal value for the food chain (Normal value for the terrestrial co	ediment ent release iisms (secondary poison ompartment	0,		0,304 0,0304 2,03 0,203 0,56 90 0,06 0,06		mg/l mg/l mg/l mg/l mg/l g/kg g/kg		
Health - Derived no-effect I	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	18 mg/kg/d	VND	4,3 mg/kg/d				
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-METHOXY-1-METHYLETHYL ACETATE

Threshold Limit Value. Type	Country	TWA/8h	TWA/8h			
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	275		550		SKIN.
TLV	CZE	270		550		SKIN.
AGW	DEU	270	50	270	50	
MAK	DEU	270	50	270	50	
TLV	DNK	275	50			SKIN.
VLA	ESP	275	50	550	100	SKIN.

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/LEP	FRA	275	50	550	100	SKIN.		
WEL	GRB	273	50	548	100	ORIN.		
	ITA	274	50	550	100	SKIN.		
NDS	POL		50		100	SKIN.		
		260	50	520	75	OKIN		
MAK	SWE	250	50	400	75	SKIN.		
DEL Predicted no-effect concentra	EU	275	50	550	100	SKIN.		
Normal value in fresh water Normal value in marine water Normal value for fresh water Normal value for marine wate Normal value for water, interr Normal value of STP microor Normal value for the terrestria Health - Derived no-effe	sediment r sediment nittent release ganisms al compartment ct level - DNEL /	DMEL		0,635 0,0635 3,29 0,329 6,35 100 0,29	Effects on	mg/l mg/l mg/kg mg/l mg/l mg/l		
	Effects on consumers.				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Dral.			VND	1,67 mg/kg		-,		- ,
nhalation.			VND	33 mg/m3			VND	272 mg/m3
Skin.			VND	54,8 mg/kg			VND	153,5 mg/kg
Epoxy resin (number av Predicted no-effect concentra Normal value in fresh water Normal value in marine water	ition - PNEC.	weight <=700)		0,006 0,0006		mg/l mg/l		
Predicted no-effect concentra Normal value in fresh water	tion - PNEC. sediment r sediment nittent release ganisms							
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Predicted no-effect concentra Normal value in fresh water Normal value for fresh water Normal value for fresh water Normal value for marine water Normal value for mater, intern Normal value of STP microor Normal value for the food cha Normal value for the terrestria Health - Derived no-effe Route of exposure Dral. nhalation. Skin. CYCLOHEXANONE Threshold Limit Value. Type FLV AGW	ition - PNEC. sediment r sediment r sediment r sediment r sediment r sediment r sediment sediment sediment sediment clevel - DNEL / Effects on consumers. Acute local VND VND VND Country BGR CZE DEU DNK	DMEL Acute systemic 0,75 mg/kg 3,571 mg/kg TWA/8h mg/m3 40,8 40 80 40	VND VND ppm 20 10	0,0006 0,996 0,0996 0,018 10 11 0,196 Chronic systemic 0,75 mg/kg 3,571 mg/kg 3,571 mg/kg STEL/15min mg/m3 81,6 80 80	workers Acute local VND VND ppm 20	mg/l mg/kg mg/l mg/l mg/kg Mg/kg Acute systemic 12,25 mg/m3 8,33 mg/kg SKIN. SKIN. SKIN.	VND	systemic 12,25 mg/m
Predicted no-effect concentra Normal value in fresh water Normal value for fresh water Normal value for fresh water Normal value for the swater, inter Normal value of STP microor Normal value of STP microor Normal value for the food cha Normal value for the terrestria Health - Derived no-effer Route of exposure Dral. nhalation. Skin. CYCLOHEXANONE Threshold Limit Value. Type TLV AGW TLV VLA	ition - PNEC. sediment r sediment nittent release ganisms iin (secondary poisc al compartment ct level - DNEL / Effects on consumers. Acute local VND VND VND BGR CZE DEU DNK ESP	Doning) DMEL Acute systemic 0,75 mg/kg 3,571 mg/kg 3,571 mg/kg 40,8 40,	VND VND 20 10	0,0006 0,996 0,0996 0,018 10 11 0,196 Chronic systemic 0,75 mg/kg 3,571 mg/kg 3,571 mg/kg 3,571 mg/kg 81,6 80 80 80	workers Acute local VND VND ppm 20 20	mg/l mg/kg mg/l mg/l mg/kg Mg/kg Acute systemic 12,25 mg/m3 8,33 mg/kg SKIN. SKIN. SKIN.	VND	systemic 12,25 mg/m
Predicted no-effect concentra Normal value in fresh water Normal value for fresh water Normal value for fresh water Normal value for marine water Normal value for the start, inter Normal value of STP microor Normal value of the food cha Normal value for the terrestria Health - Derived no-effer Route of exposure Dral. nhalation. Skin. CYCLOHEXANONE Threshold Limit Value. Type TLV TLV AGW TLV VLA	ition - PNEC. sediment r sediment nittent release ganisms sin (secondary poisc al compartment ct level - DNEL / Effects on consumers. Acute local VND VND VND Country BGR CZE DEU DNK ESP FRA	Doning) DMEL Acute systemic 0,75 mg/kg 3,571 mg/kg 3,571 mg/kg 40,8 40,8 40,8 40 80 40 41 40,8	VND VND 20 10 10 10	0,0006 0,996 0,0996 0,018 10 11 0,196 Chronic systemic 0,75 mg/kg 3,571 mg/kg 3,571 mg/kg 3,571 mg/kg 81,6 80 80 80 82 81,6	workers Acute local VND VND ppm 20 20 20 20	mg/l mg/kg mg/l mg/kg mg/l mg/kg Mg/kg Acute systemic 12,25 mg/m3 8,33 mg/kg SKIN. SKIN. SKIN. SKIN.	VND	systemic 12,25 mg/m
Predicted no-effect concentra Normal value in fresh water Normal value for fresh water Normal value for fresh water, intern Normal value for marine water Normal value for the stresh water, intern Normal value of STP microor Normal value of the food cha Normal value for the terrestria Health - Derived no-effect Route of exposure Dral. nhalation. Skin. CYCLOHEXANONE Threshold Limit Value. Type TLV AGW TLV VLA VLEP NEL	ition - PNEC. sediment r sediment r sediment r sediment r sediment in (secondary poise al compartment ct level - DNEL / Effects on consumers. Acute local VND VND VND VND BGR CZE DEU DNK ESP FRA GRB	DMINING) DMEL Acute systemic 0,75 mg/kg 3,571 mg/kg 3,571 mg/kg 40,8 40,8 40,8 40,8 40 40,8 40 41 40,8 41	VND VND 20 10 10 10 10	0,0006 0,996 0,0996 0,018 10 11 0,196 Chronic systemic 0,75 mg/kg 3,571 mg/kg 3,571 mg/kg 3,571 mg/kg 81,6 80 80 82 81,6 82	workers Acute local VND VND 20 20 20 20 20	mg/l mg/kg mg/kg mg/l mg/kg mg/kg Acute systemic 12,25 mg/m3 8,33 mg/kg SKIN. SKIN. SKIN. SKIN. SKIN.	VND	systemic 12,25 mg/m
Predicted no-effect concentra Normal value in fresh water Normal value for fresh water Normal value for fresh water Normal value for the swater, inter Normal value of STP microor Normal value of STP microor Normal value for the food cha Normal value for the terrestria Health - Derived no-effer Route of exposure Dral. nhalation. Skin. CYCLOHEXANONE Threshold Limit Value. Type TLV TLV AGW TLV VLA VLEP NEL TLV	ition - PNEC. sediment r sediment nittent release ganisms iin (secondary poisc al compartment ct level - DNEL / Effects on consumers. Acute local VND VND VND Country BGR CZE DEU DNK ESP FRA GRB ITA	Dining) DMEL Acute systemic 0,75 mg/kg 3,571 mg/kg 3,571 mg/kg 40,8 40,8 40,8 40 80 40 40 80 40 41 40,8 41 40,8	VND VND 20 10 10 10 10	0,0006 0,996 0,0996 0,018 10 11 0,196 Chronic systemic 0,75 mg/kg 3,571 mg/kg 3,571 mg/kg 3,571 mg/kg 81,6 80 80 81,6 82 81,6 82 81,6	workers Acute local VND VND 20 20 20 20 20	mg/l mg/kg mg/kg mg/l mg/kg mg/kg Acute systemic 12,25 mg/m3 8,33 mg/kg SKIN. SKIN. SKIN. SKIN. SKIN.	VND	systemic 12,25 mg/m3

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TLV-ACGIH		80	20	201	50			
Predicted no-effect concentration	on - PNEC.							
Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water s Normal value of sTP microorga Normal value of sTP microorga	sediment tent release nisms compartment			0,1 0,01 0,512 0,0512 1 10 0,0435		mg/l mg/l mg/kg mg/kg mg/l mg/kg]	
Health - Derived no-effect	Effects on consumers.	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation.			VND	10 mg/m3		-	VND	40 mg/m3
Skin.			VND	1 mg/kg			VND	4 mg/kg/d

XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Value. Type	Country	TWA/8h		STEL/15min				
		mg/m3	ppm	mg/m3	ppm			
TLV	BGR	221		442		SKIN.		
TLV	CZE	200		400		SKIN.		
AGW	DEU	440	100	880	200	SKIN.		
MAK	DEU	440	100	880	200	SKIN.		
VLA	ESP	221	50	442	100	SKIN.		
VLEP	FRA	221	50	442	100	SKIN.		
WEL	GRB	220	50	441	100			
TLV	ITA	221	50	442	100	SKIN.		
NDS	POL	100						
MAK	SWE	221	50	442	100	SKIN.		
OEL	EU	221	50	442	100	SKIN.		
TLV-ACGIH		434	100	651	150			
Predicted no-effect concentration	n - PNEC.							
Normal value in fresh water Normal value in marine water Normal value for fresh water sec Normal value for marine water s Normal value for water, intermitt Normal value of STP microorgar Normal value for the terrestrial c	ediment ent release hisms			0,327 0,327 12,46 12,46 0,327 6,58 2,31		mg/l mg/l mg/kg mg/kg mg/l mg/l	9	
Health - Derived no-effect	level - DNEL / C Effects on consumers.	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	1,6 mg/kg/d		oyotonno-		oyotonno
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
Hydrocarbons, C10, aroma	atics, <1% naph	talene						

riyarooarbonis, oro, aromat	105, <170 nupin	laiche						
Health - Derived no-effect le	evel - DNEL / D	MEL						
	Effects on				Effects on			
	consumers.				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Quel				systemic		systemic		systemic
Oral.			VND	7,5 mg/kg/d				
Inhalation.			VND	32 mg/m3			VND	151 mg/m3
				j				
Skin.			VND	7,5 mg/kg/d			VND	12,5 mg/kg/d

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alkanes, C14-17, chloro								
Predicted no-effect concentra	ation - PNEC.							
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 Normal value of STP do chain (secondary poisoning) Normal value for the terrestrial compartment				0,001 mg/l 0,0002 mg/l 5 mg/kg 1 mg/kg 80 mg/l 10 mg/kg 10,5 mg/kg]		
Health - Derived no-effe		MEL		10,0			,	
	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	0,58 mg/kg bw/d				
Inhalation.			VND	2 mg/m3			VND	6,7 mg/m3
Skin.			VND	28,75 mg/kg bw/d			VND	47,9 mg/kg bw/d

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

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

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

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

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

SKIN PROTECTION

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

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

EYE PROTECTION

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

RESPIRATORY PROTECTION

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

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

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

ENVIRONMENTAL EXPOSURE CONTROLS.

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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.

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

10.2. Chemical stability.

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

10.3. Possibility of hazardous reactions.

The vapours may also form explosive mixtures with the air.

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

10.4. Conditions to avoid.

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

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

10.5. Incompatible materials.

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

10.6. Hazardous decomposition products.

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

SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

This product must be handled carefully because of its possible negative effects on children during the breast-feeding period.

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurvies, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

Specific target organ toxicity (STOT) - single exposure:

NOAEC> 600 mg / kg Inhalation. Rat.

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.

Epoxy resin (number average molecular weight <=700) LD50 (Oral).> 2000 mg/kg Ratto / Rat LD50 (Dermal).> 2000 mg/kg Ratto / Rat

Hydrocarbons, C10, aromatics, <1% naphtalene LD50 (Oral).6318 mg/kg Ratto / Rat

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LD50 (Dermal).> 2000 mg/kg Coniglio / Rabbit LC50 (Inhalation).> 4688 mg/kg/4h Ratto / Rat

XYLENE (MIXTURE OF ISOMERS) LD50 (Oral).3523 mg/kg Rat LD50 (Dermal).4350 mg/kg Rabbit LC50 (Inhalation).26 mg/l/4h Rat

2-METHOXY-1-METHYLETHYL ACETATE LD50 (Oral).8530 mg/kg Rat LD50 (Dermal).> 5000 mg/kg Rat LC50 (Inhalation).> 4345 ppm/6h Ratto / Rat

CYCLOHEXANONE LD50 (Oral).1535 mg/Kg Ratto / Rat LD50 (Dermal).1100 mg/Kg Coniglio / Rabbit LC50 (Inhalation).11 mg/l/4h Ratto / Rat (4h)

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

SECTION 12. Ecological information.

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment. 12.1. Toxicity.

Epoxy resin (number average molecular weight <=700)	
LC50 - for Fish.	1,5 mg/l/96h
EC50 - for Crustacea.	1,7 mg/l/48h Daphnia
EC50 - for Algae / Aquatic Plants.	9,4 mg/l/72h
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
CYCLOHEXANONE	
EC50 - for Crustacea.	527 mg/l/96h Fish, Pimephales promelas (96h)
EC50 - for Algae / Aquatic Plants.	> 100 mg/l/72h Scenedesmus subspicatus

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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	
12.2. Persistence and degradability.		
Epoxy resin (number average molecular weight <=700)		
NOT rapidly biodegradable.		
alkanes, C14-17, chloro		
NOT rapidly biodegradable.		
Hydrocarbons, C10, aromatics, <1% naphtalene Solubility in water.	mg/l immiscibile in H2O	
Rapidly biodegradable.		
XYLENE (MIXTURE OF ISOMERS) Solubility in water.	mg/l 100 - 1000	
Biodegradability: Information not available		
Rapidly biodegradable.		
2-METHOXY-1- METHYLETHYL ACETATE Solubility in water.	> 10000 mg/l	
Rapidly biodegradable.		
CYCLOHEXANONE		
Solubility in water.	mg/l 0,1 - 100	
Rapidly biodegradable.		
BUTYLGLYCOL ACETATE		
Rapidly biodegradable.		
12.3. Bioaccumulative potential.		
Epoxy resin (number average molecular weight		

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<=700) BCF.	31		
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: n- octanol/water. BCF.	3,12 25,9		
2-METHOXY-1- METHYLETHYL ACETATE Partition coefficient: n- octanol/water.	1,2		
CYCLOHEXANONE Partition coefficient: n- octanol/water.	0,86		
BUTYLGLYCOL ACETATE Partition coefficient: n- octanol/water.	1,51		
12.4. Mobility in soil.			
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: soil/water.	2,73		
CYCLOHEXANONE Partition coefficient: soil/water.	1,18		

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.

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.

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14.1. UN number.

ADR / RID, IMDG, 1210 IATA:

14.2. UN proper shipping name.

ADR / RID:	PRINTING INK or PRINTING INK RELATED
IMDG:	MATERIAL PRINTING INK or
	PRINTING INK RELATED MATERIAI
	(Epoxy resin
ΙΑΤΑ:	(number average molecular weight ≤700)) PRINTING INK or
	PRINTING INK RELATED MATERIAL

14.3. Transport hazard class(es).

ADR / RID:	Class: 3	Label: 3
IMDG:	Class: 3	Label: 3
IATA:	Class: 3	Label: 3



14.4. Packing group.

ADR / RID, IMDG, III IATA:

14.5. Environmental hazards.

ADR / RID:	Environmentally Hazardous.
IMDG:	Marine Pollutant.



IATA: NO

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

14.6. Special precautions for user.

ADR / RID:

HIN - Kemler: 30

Special Provision: 640E EMS: F-E, S-D Limited Quantities: 5 L

Limited Quantities: 5 Tunnel restriction code: (D/E)

IMDG:

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ΙΑΤΑ:	Cargo:	L Maximum	Packaging
	Cargo.	quantity: 220	instructions:
	Pass.:	L Maximum	366 Packaging
		quantity: 60 L	instructions:
	Special Instructions:	A3, A72, A192	355
14.7. Transport in bulk accord	ing to Annex II of MARPOL73/78 and the IBC	C Code.	
Information not relevant.			
SECTION 15. Regula	tory information		
oconora io. Regula			
15.1. Safety, health and envi	ronmental regulations/legislation specific fo	or the substance or mixture.	
Seveso category.	9ii, 6		
<u>Seveso calegory.</u>	511, 0		
Restrictions relating to the produ	ict or contained substances pursuant to Annex	XVII to EC Regulation 1907/2006.	
Product.			
Point.	3 - 40		
Substances in Candidate List (A	<u>rt. 59 REACH).</u>		
None.			
Substances subject to authorisa	<u>rion (Annex XIV REACH).</u>		
None.			
Substances subject to exportation	on reporting pursuant to (EC) Reg. 649/2012:		
None.			
Substances subject to the Rotter	rdam Convention:		
None.			
Substances subject to the Stock	holm Convention:		
None.			
Healthcare controls.			
	al agent must not undergo health checks, prov nodest and that the 98/24/EC directive is respec		ata prove that the risks related to the
15.2. Chemical safety assessment.			
No chemical safety assessment has been processed for the mixture and the substances it contains.			
איז איזיאנא איז	has been processed for the mixture and the SU		

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SECTION 16. Other information.

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

Flam. Liq. 3	Flammable liquid, category 3
Lact.	Reproductive toxicity, effects on or via lactation
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
Skin Sens. 1	Skin sensitization, 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
H226	Flammable liquid and vapour.
H362	May cause harm to breast-fed children.
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.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
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.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect) CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008 DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- **OEL: Occupational Exposure Level**
- PBT: Persistent bioaccumulative and toxic as REACH Regulation

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PEC: Predicted environmental Concentration PEL: Predicted exposure level PNEC: Predicted no effect concentration REACH: EC Regulation 1907/2006 RID: Regulation concerning the international transport of dangerous goods by train TLV: Threshold Limit Value TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure. TWA STEL: Short-term exposure limit TWA: Time-weighted average exposure limit VOC: Volatile organic Compounds vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation WGK: Water hazard classes (German). GENERAL BIBLIOGRAPHY 1. Regulation (EU) 1907/2006 (REACH) of the European Parliament 2. Regulation (EU) 1272/2008 (CLP) of the European Parliament 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament 4. Regulation (EU) 2015/830 of the European Parliament 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament The Merck Index. - 10th Edition Handling Chemical Safety INRS - Fiche Toxicologique (toxicological sheet) Patty - Industrial Hygiene and Toxicology N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition ECHA website 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.