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COMEC	ITALIA SRL		Revision nr. 3 Dated 30/01/2023
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			Replaced revision:2 (Dated: 27/07/2021)
	-	2020/878 and to Annex II to UK RE/	
SECTION 1. Identification of the subs	stance/mixture ar	nd of the company/unde	rtaking
1.1. Product identifier			
Product name	PLT 31 WHITE 2: 60 B		
UFI :	F4E0-D01U-800R-VX6	1	
1.2. Relevant identified uses of the substance or m Intended use Pad printing ink	ixture and uses advise	ed against	
1.3. Details of the supplier of the safety data sheet			
Name	COMEC ITALIA SRL	_	
Full address District and Country	Piazzale del lavoro 14 21044 Cavaria (VA)	9	
	ITALIA		
	Tel. +39 0331 219516		
	Fax +39 0331 216161		
e-mail address of the competent person responsible for the Safety Data Sheet Supplier:	info@comec-italia.it Edgardo Baggini		
1.4. Emergency telephone number For urgent inquiries refer to		I OSPEDALE NIGUARDA MILANC I POLICLINICO A.GEMELL ROMA	
SECTION 2. Hazards identification			
2.1. Classification of the substance or mixture			
The product is classified as hazardous pursuant to th supplements). The product thus requires a safety datash Any additional information concerning the risks for healt	neet that complies with th	ne provisions of (EU) Regulation 202	20/878.
Hazard classification and indication:			
Flammable liquid, category 3 Serious eye damage, category 1	H226 H318	Flammable liquid and vapo Causes serious eye dama	
Skin irritation, category 2	H315	Causes skin irritation.	ye.
2.2. Label elements			
Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent ar	mendments and supplements.	
Hazard pictograms:			

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Signal words:

Danger

Hazard statements:

H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H315	Causes skin irritation.
EUH208	Contains: 2-(2H-benzotriazol-2-il)-p-cresolo May produce an allergic reaction.

Precautionary statements:

P210 P305+P351+P338	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P280 P310 P370+P378 P264	Wear protective gloves/ protective clothing / eye protection / face protection. Immediately call a POISON CENTER or a doctor. In case of fire: use chemical powder, CO2 or dry send to extinguish. Wash the hands thoroughly after handling.
Contains:	CYCLOHEXANONE BUTANOL

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration \geq 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification TITANIUM DIOXIDE	x = Conc. %	Classification (EC) 1272/2008 (CLP)
INDEX -	32,5 ≤ x < 35	
EC 236-675-5		
CAS 13463-67-7		
2-METHOXY-1-METHYLETHYL ACETATE INDEX 607-195-00-7	16,5≤x< 18	Flam. Liq. 3 H226, STOT SE 3 H336
EC 203-603-9 CAS 108-65-6		

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REACH Reg. 01-2119475791-29- xxxx CYCLOHEXANONE		
INDEX 606-010-00-7	16,5 ≤ x < 18	Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4
EC 203-631-1		H332, Eye Dam. 1 H318, Skin Irrit. 2 H315 LD50 Oral: 1535 mg/kg, LD50 Dermal: 1100 mg/kg, LC50 Inhalation vapours: 11 mg/l/4h
CAS 108-94-1		
REACH Reg. 01-2119453616-35-		
BUTYLGLYCOL ACETATE		
INDEX 607-038-00-2	9 ≤ x < 10,5	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332
EC 203-933-3		LD50 Oral: 1880 mg/kg, LD50 Dermal: 1500 mg/kg, STA Inhalation vapours: 11 mg/l
CAS 112-07-2		
REACH Reg. 01-2119475112- 47xxxx BUTANOL		
INDEX 603-004-00-6	1,5≤x< 2	Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336
EC 200-751-6		STA Oral: 500 mg/kg
CAS 71-36-3		
REACH Reg. 01-2119484630-38		
2-(2H-benzotriazol-2-il)-p-cresolo		
INDEX -	0,23 ≤ x < 0,25	Skin Sens. 1B H317, Aquatic Chronic 1 H410 M=1
EC 219-470-5		
CAS 2440-22-4		
REACH Reg. 01-2119583811-34- 0000		

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.

SKIN: Remove contaminated clothing. Rinse skin with a shower 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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

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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.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

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

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product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and 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	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ,
	·	СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари
		2020г.)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se
		stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte.
		MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher
		Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste
DDT		lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit
PRT	Portugal	Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes guímicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à
		exposição durante o trabalho a agentes cancerígenos ou mutagénicos
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie
FOL	FOISKA	w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w
		środowisku pracy
ROU	România	Hotárárea nr. 53/2021 pentru modificarea hotárârii guvernului nr. 1.218/2006, precum si pentru modificarea
	. contained	si completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS
	0	2018:1)
TUR	Türkiye	Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983;
		Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
		2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

TITANIUM DIOXIDE

Threshold Limit Valu	ie						
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	10				RESP	
TLV	DNK	6					Som Ti
VLA	ESP	10					
VLEP	FRA	10					
NDS/NDSCh	POL	10				INHAL	
TLV	ROU	10		15			
NGV/KGV	SWE	5					Totaldamm

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WEL	GBR	10				INHAL		
WEL	GBR	4				RESP		
TLV-ACGIH		2,5				RESP		
Predicted no-effect concentra	tion - PNEC							
Normal value in fresh water				0,127	mg	g/l		
Normal value in marine water				1	mg	g/l		
Normal value for fresh water	sediment			1000	mg	g/kg		
Normal value for marine wate	er sediment			100	mg	g/kg		
Normal value for water, interr	nittent release			0,61	mg	g/I		
Normal value of STP microor	ganisms			100	mg	g/l		
Normal value for the terrestria	al compartment			100	mç	g/kg		
Health - Derived no-effe	ct level - DNEL / I Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral				systemic 700 mg/m3		systemic		systemic
Inhalation								10 mg/m3
2-METHOXY-1-METHYL	ETHYL ACETATE							
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks	1	
		mg/m3	ppm	mg/m3	ppm	Observat	ions	
TLV	BGR	275	50	550	100	SKIN		
TLV	CZE	270	49,14	550	100,1	SKIN		
AGW	DEU	270	50	270	50			
MAK	DEU	270	50	270	50			
TLV		275	50	210		SKIN	E	
VLA	ESP	275	50	550	100	SKIN	-	
VLEP	FRA	275	50	550	100	SKIN		
VLEP	ITA	275	50	550	100	SKIN		
TGG	NLD	550		000	100			
VLE	PRT	275	50	550	100	SKIN		
NDS/NDSCh	POL	260	60	520	100	SKIN		
TLV	ROU	275	50	550	100	SKIN		
NGV/KGV	SWE	275	50	550	100	SKIN		
ESD	TUR	275	50	550	100	SKIN		
WEL	GBR	275	50	548	100	SKIN		
OEL	EU	274	50	550	100	SKIN		
Predicted no-effect concentra		215	50	550	100	GNIN		
	IUOII - FINEC			0.625		×/I		
Normal value in fresh water Normal value in marine water				0,635	mç			
				0,0635	mç	-		
Normal value for fresh water				3,29		g/kg		
Normal value for marine wate				0,329	mç			
Normal value for water, interr	nittent release			6,35	mç	J/I		

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Normal value of STP microor					-			
Normal value for the terrestria	al compartment			0,29	mg/	kg		
Health - Derived no-effe	ct level - DNEL / I 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
Oral			VND	1,67 mg/kg				
Inhalation			33 mg/m3	33 mg/m3	550 mg/m3		VND	275 mg/m3
Skin			VND	54,8 mg/kg			VND	153,5 mg/kg
CYCLOHEXANONE								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm	00001144		
TLV	BGR	40,8	10	81,6	20	SKIN		
TLV	CZE	40	9,8	80	196	SKIN		
AGW	DEU	80	20	80	20	SKIN		
TLV	DNK	41	10			SKIN	E	
VLA	ESP	41	10	82	20	SKIN		
VLEP	FRA	40,8	10	81,6	20			
VLEP	ITA	40,8	10	81,6	20	SKIN		
TGG	NLD			50		SKIN		
VLE	PRT	40,8	10	81,6	20	SKIN		
NDS/NDSCh	POL	40		80		SKIN		
TLV	ROU	40,8	10	81,6	20	SKIN		
NGV/KGV	SWE	41	10	81	20	SKIN		
ESD	TUR	40,8	10	81,6	20	SKIN		
WEL	GBR	41	10	82	20	SKIN		
OEL	EU	40,8	10	81,6	20	SKIN		
TLV-ACGIH		80	20	201	50	SKIN		
Predicted no-effect concentra	tion - PNEC							
Normal value in fresh water				0,1	mg/	1		
Normal value in marine water				0,01	mg/			
Normal value for fresh water				0,512	mg/			
Normal value for marine wate				0,0512	mg/	-		
Normal value for water, intern	nittent release			0,329	mg/			
Normal value of STP microor				10	mg/			
Normal value for the terrestria	-			0,0435	mg/			
Health - Derived no-effe		DMEL			Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral		-,		systemic 1,5 mg/kg		systemic		systemic
) (ND	bw/d			1410	40 1 5
Inhalation			VND	10 mg/m3			VND	40 mg/m3

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BUTYLGLYCOL ACETATE

Туре	Country	TWA/8h		STEL/15min		Remarks / Observation		
		mg/m3	ppm	mg/m3	ppm			
ſLV	BGR	133	20	333	50	SKIN		
۲LV	CZE	130	19,5	300	45	SKIN		
AGW	DEU	65	10	130 (C)	20 (C)	SKIN	11	
MAK	DEU	66	10	132	20	SKIN	Hinweis	
ſLV	DNK	134	20			SKIN	E	
/LA	ESP	133	20	333	50	SKIN		
/LEP	FRA	66,5	10	333	50			
/LEP	ITA	133	20	333	50	SKIN		
rgg	NLD	135		333		SKIN		
/LE	PRT	133	20	333	50	SKIN		
NDS/NDSCh	POL	100		300		SKIN		
ΓLV	ROU	133	20	333	50	SKIN		
NGV/KGV	SWE	70	10	333	50	SKIN		
ESD	TUR	133	20	333	50	SKIN		
WEL	GBR	133	20	332	50	SKIN		
DEL	EU	133	20	333	50	SKIN		
LV-ACGIH		131	20					
Predicted no-effect concent	ration - PNEC							
Normal value in fresh water				0,304	mg	/I		
Normal value in marine wate	er			0,03	mg			
Normal value for fresh water	r sediment			2,03	mg			
Normal value for marine wat	ter sediment			0,203	mg			
Normal value for water, inter				0,56	mg			
Normal value of STP microo				90	mg			
Normal value for the food ch		ing)		60	mg			
Normal value for the terrestr		ing)		0,415	-	/kg/d		
	-			0,415	mg	/kg/u		
Health - Derived no-eff	Effects on consumers	JWIEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Dral	VND	36 mg/kg/d	VND	systemic 4,3 mg/kg/d		systemic		systemic
nhalation	200 mg/m3	499 mg/m3	VND	80 mg/m3	333 mg/m3	773 mg/m3	VND	133 mg/m3
Skin	200 Hig/Ho	72 mg/kg bw/d	VND	102 mg/kg/d	102 mg/kg/d	27 mg/kg/d	VND	169 mg/kg/d
BUTANOL								
Threshold Limit Value	Country	TWA/8h		STEL/15min		Remarks /	1	
		mg/m3	ppm	mg/m3	ppm	Observatio	ons	
TLV	BGR	100	2411	150	ppin			
			07.5		105			
TLV	CZE	300	97,5	600	195			
AGW	DEU	310	100	310	100			

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halation							VND	1 mg/m3
Dral			VND	1,2 mg/kg				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
	Effects on consumers				Effects on workers			
lealth - Derived no-effect		MEL						
lormal value for the terrestria				11		j/kg		
lormal value of STP microorg				1	mg			
Jormal value for water, interm				1	mg	-		
Normal value for marine water				0,0136		j/kg		
Normal value for fresh water s	ediment			0,136		j/kg		
Normal value in marine water				0,000026	mg			
Normal value in fresh water				0,00026	mç	g/l		
2-(2H-benzotriazol-2-il)-p Predicted no-effect concentrat								
TLV	ROU	mg/m3 200	ppm	mg/m3 300	ppm	SKIN		
,	Country		nnm		ppm		rvations	
Threshold Limit Value	Country	TWA/8h		STEL/15min		Rema	arks /	
POLYSILOXANES			-					
nhalation			55 mg/m3	VND			310 mg/m3	VND
Dral			VND	systemic 3125 mg/kg		systemic		systemic
Route of exposure	Effects on consumers Acute local	Acute systemic	Chronic local	Chronic	Effects on workers Acute local	Acute	Chronic local	Chronic
lealth - Derived no-effec		DMEL						
Normal value for the terrestria				0,015	mg	j/kg		
lormal value of STP microorg	janisms			2476	mç	j/l		
Normal value for water, interm	nittent release			2,25	mç	j/l		
Normal value for marine water	rsediment			0,0178	mç	j/kg		
Normal value for fresh water s	ediment			0,178	mç	j/kg		
Normal value in marine water				0,0082	mç	j/l		
Normal value in fresh water				0,082	mç	<u>а/I</u>		
Predicted no-effect concentrat	tion - PNEC							
TLV-ACGIH		61	20					
WEL	GBR			154	50	SKIN		
NGV/KGV	SWE	45	15	90	30	SKIN		
TLV	ROU	100	33	200	66			
NDS/NDSCh	POL	50		150		SKIN		
TGG	NLD			45				
VLEP	FRA			150	50			
VLA	ESP	61	20	154	50			
MAK	DEU	310	100	310 150 (C)	50 (C)	SKIN		
					100			

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Skin			VND	1,2 mg/kg			VND	2,5 mg/kg
reaction mass of isomer		-(3,5-di-tert-buty	I-4-hydroxyph	enyl)propionat	te			
Predicted no-effect concentrat	tion - PNEC							
Normal value in fresh water				0,018	mg	J/I		
Normal value in marine water				0,0018	mg	J/I		
Normal value for fresh water s	sediment			2	mg	ı/kg/d		
Normal value for marine water	r sediment			0,2	mg	/kg/d		
Normal value for water, interm	nittent release			0,018	mg	J/I		
Normal value of STP microorg	ganisms			100	mg	J/I		
Normal value for the food cha	in (secondary poison	ing)		41,33	mg	ı/kg		
Normal value for the terrestria	l compartment			10	mg	/kg/d		
Health - Derived no-effect	ct level - DNEL / C Effects on consumers	DMEL			Effects on workers			
Route of exposure Oral	Acute local	Acute systemic	Chronic local	Chronic systemic 0,93 mg/kg	Acute local	Acute systemic	Chronic local	Chronic systemic
				bw/d				
Inhalation				1,62 mg/m3				6,6 mg/m3
Skin				0,83 mg/kg bw/d				1,67 mg/kg bw/d
Soybean oil, epoxidized Health - Derived no-effect		DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		5 mg/kg/d		0,8 mg/kg/d				
Inhalation		17,5 mg/m3		2,8 mg/m3		70 mg/m3		11,9 mg/m3
Skin		5 mg/kg/d		0,8 mg/kg/d	10 mg/kg/d	10 mg/kg/d		1,7 mg/kg/d
HYDROM HYDROPHONE Threshold Limit Value	E SILICATE							
Туре	Country	TWA/8h		STEL/15min		Remarks Observa		
		mg/m3	ppm	mg/m3	ppm	0000174		
AGW	DEU	4				INHAL		

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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

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.

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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 Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

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

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

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

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

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

ENVIRONMENTAL EXPOSURE CONTROLS

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

Properties	Value	Information
Appearance	liquid	
Colour	white	
Odour	characteristic of solvent	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	23 ≤ T ≤ 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
рН	not available	
Kinematic viscosity	not available	
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	not available	

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Vapour pressure	not available
Density and/or relative density	not available
Relative vapour density	not available
Particle characteristics	not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes	
Information not available	
9.2.2. Other safety characteristics	

VOC (Directive 2010/75/EU)	45,19 %
VOC (volatile carbon)	28,49 %

SECTION 10. Stability and reactivity

10.1. Reactivity

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

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

CYCLOHEXANONE

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

BUTANOL

Attacks various types of plastic materials.

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.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances, strong acids, alkaline metals.

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CYCLOHEXANONE

Risk of explosion on contact with: hydrogen peroxide, nitric acid, heat, mineral acids. May react violently with: oxidising agents. Forms explosive mixtures with: air.

BUTANOL

Reacts violently developing heat on contact with: aluminium,strong oxidising agents,strong reducing agents,hydrochloric acid.Forms explosive mixtures with: air.

10.4. Conditions to avoid

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

CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

BUTANOL

Avoid exposure to: sources of heat, naked flames.

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances, strong acids, 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

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.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

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2-METHOXY-1-METHYLETHYL ACETATE WORKERS: inhalation; contact with the skin.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

2-METHOXY-1-METHYLETHYL ACETATE

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture:
ATE (Oral) of the mixture:
ATE (Dermal) of the mixture:

TITANIUM DIOXIDE

LD50 (Oral): LC50 (Inhalation mists/powders):

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

CYCLOHEXANONE

LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):

BUTYLGLYCOL ACETATE

LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): STA (Inhalation vapours):

BUTANOL

LD50 (Dermal):

> 20 mg/l >2000 mg/kg >2000 mg/kg

> 5000 mg/l Ratto/Rat > 6,82 mg/l Ratto/Rat

> 5000 mg/kg Coniglio / Rabbit 8500 mg/kg Ratto / Rat 4345 ppm/6h Ratto / Rat

1100 mg/kg 794 - 3160 / Coniglio / Rabbit 1535 mg/kg Ratto / Rat 11 mg/l/4h Ratto / Rat (4h)

1500 mg/kg Coniglio / Rabbit 1880 mg/kg Ratto / Rat 0,4 mg/l/4h Ratto - Rat 11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

3400 mg/kg Rabbit

Revision nr. 3 **COMEC ITALIA SRL** Dated 30/01/2023 Printed on 31/01/2023 PLT 31 WHITE 2: 60 BN, Page n. 15/22 Replaced revision:2 (Dated: 27/07/2021) LD50 (Oral): 2290 mg/kg Rat STA (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture) LC50 (Inhalation vapours): 17,76 mg/l/4h Rat Tillplast ATBC LD50 (Oral): 31400 mg/kg Ratto - Rat POLYSILOXANES LD50 (Oral): > 30 mg/kg Ratto / Rat 2-(2H-benzotriazol-2-il)-p-cresolo > 2000 mg/kg ratto (OECD - linea guida 402) Analogismo: valutazione LD50 (Dermal): derivante da prodotti chimicamente simili. > 10000 mg/kg (OECD-Linea guida 423) > 0,59 mg/l 4 h ratto (OCSE - linea guida 403) concentrazione a piu' alta LD50 (Oral): LC50 (Inhalation mists/powders): testabilita' **SKIN CORROSION / IRRITATION** Causes skin irritation SERIOUS EYE DAMAGE / IRRITATION Causes serious eye damage RESPIRATORY OR SKIN SENSITISATION May produce an allergic reaction. Contains: 2-(2H-benzotriazol-2-il)-p-cresolo GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

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Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Tillplast ATBC	
LC50 - for Fish	> 38 mg/l/96h
TITANIUM DIOXIDE	
LC50 - for Fish	> 10000 mg/l/96h Cypridonon variegatus
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

BUTANOL

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LC50 - for Fish	1376 mg/l/96h Pimephales promelas
EC50 - for Crustacea	1328 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	225 mg/l/96h 96h - Selenastrum capricornutum
CYCLOHEXANONE	
LC50 - for Fish	527 mg/l/96h 527 - 732 / Pimephales promelas
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Scenedesmus subspicatus
BUTYLGLYCOL ACETATE	
LC50 - for Fish	> 20 mg/l/96h Fish 20-40 mg/kg (48h)
EC50 - for Crustacea	145 mg/l/24h Daphnia Magna (24h)
EC50 - for Algae / Aquatic Plants	1570 mg/l/72h Scenedesmus subspicatus
2-(2H-benzotriazol-2-il)-p-cresolo	
LC50 - for Fish	> 0,17 mg/l/96h Oncorhynchus mykiss (OECD - linea guida 203, semistatico)
EC50 - for Crustacea	> 1000 mg/l/48h CE50 (24 h), Daphnia magna (OECD - linea guida 202, parte 1, statico)
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Desmodesmus subspicatus
Chronic NOEC for Crustacea	0,013 mg/l Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	33 mg/l/72h (biomassa) Desmodesmus subspicatus (OECD - linea guida 201)
12.2. Persistence and degradability	
2-(2H-benzotriazol-2-il)-p-cresolo Not readily biodegradable. 2-METHOXY-1-METHYLETHYL ACETATE	
Solubility in water	> 10000 mg/l
Rapidly degradable OECD GI 301F 83% 10 d BUTANOL	
Solubility in water	78 mg/l
Rapidly degradable CYCLOHEXANONE	
Solubility in water	86 mg/l
Rapidly degradable BUTYLGLYCOL ACETATE	
Solubility in water	15000 mg/l
Rapidly degradable 2-(2H-benzotriazol-2-il)-p-cresolo	
Solubility in water	0,173 mg/l @20°C
NOT rapidly degradable	

12.3. Bioaccumulative potential

2-(2H-benzotriazol-2-il)-p-cresolo

Assessment of bioaccumulation potential: The product can accumulate in the body. Bioaccumulative potential: Bioconcentration factor: 548 - 895 (70 d), Cyprinus carpio (OECD - guideline 305 C) The product has not been tested. The statement has been derived from products of a similar structure and composition. Bioconcentration factor: 44 to 220 (56 d), Cyprinus carpio (OECD - guideline 305 C).

Tillplast ATBC

Partition coefficient: n-octanol/water

4,86

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2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water	1,2
BCF	100
BUTANOL	
Partition coefficient: n-octanol/water	1
BCF	3,16
CYCLOHEXANONE	
Partition coefficient: n-octanol/water	0,86
BUTYLGLYCOL ACETATE	
Partition coefficient: n-octanol/water	1,51
2-(2H-benzotriazol-2-il)-p-cresolo	
Partition coefficient: n-octanol/water	4,2 mg/l @25°C
BCF	548 548 - 895 / Cyprinus carpio - 70d

12.4. Mobility in soil

2-METHOXY-1-METHYLETHYL ACETATE	
Partition coefficient: soil/water	1,7
BUTANOL	
Partition coefficient: soil/water	0,388
CYCLOHEXANONE	
Partition coefficient: soil/water	1,18
2-(2H-benzotriazol-2-il)-p-cresolo	
Partition coefficient: soil/water	3,71

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 \geq than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

Information not available

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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

14.1. UN number or ID number

ADR / RID, IMDG, IATA:	1210

14.2. UN proper shipping name

ADR / RID:	PRINTING INK
IMDG:	PRINTING INK
IATA:	PRINTING INK

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, IATA:

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 30

ш

IMDG:

Special provision: 163, 367 EMS: F-E, S-D Limited Quantities: 5 L

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



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Т Maximum IATA: Cargo: Packaging quantity: 220 instructions: 366 Pass.: Packaging Maximum quantity: 60 L instructions: 355 Special provision: A3, A72, A192 14.7. Maritime transport in bulk according to IMO instruments Information not relevant **SECTION 15. Regulatory information** 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Seveso Category - Directive 2012/18/EU: P5c Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Product 3 - 40 Point Contained substance Point 75 Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors not applicable Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%. Substances subject to authorisation (Annex XIV REACH) None Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012: None Substances subject to the Rotterdam Convention: None Substances subject to the Stockholm Convention: None

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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

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

Flam. Liq. 3	Flammable liquid, category 3
Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H318	Causes serious eye damage.
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.

LEGEND:

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

- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration

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- REACH: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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 (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
- 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 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 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP) 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP) 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
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- 20. Delegated Regulation (UE) 2020/1102 (XV Atp. CLP) 21. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP) 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP) 22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- 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
- IFA GESTIS website
- ECHA website

Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

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.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified: 02 / 03 / 08 / 09 / 11 / 12 / 14 / 15 / 16.