# Revision nr. 4 **COMEC ITALIA SRL** Dated 06/12/2022 Printed on 06/12/2022 **PLT 15 WHITE 2: 60 BN,** Page n. 1/25 Replaced revision:3 (Dated: 08/03/2021)

Safety Data Sheet
According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

# SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

PLT 15 WHITE 2: 60 BN, Product name UFI: 6FA2-4004-W00Q-YTUT

# 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 sheet

**COMEC ITALIA SRL** Full address Piazzale del lavoro 149 District and Country 21044 Cavaria (VA) ΙΤΔΙ ΙΔ

Tel. +39 0331 219516 Fax +39 0331 216161

e-mail address of the competent person

responsible for the Safety Data Sheet info@comec-italia.it Supplier: Edgardo Baggini

# 1.4. Emergency telephone number

For urgent inquiries refer to CENTRO ANTIVELENI OSPEDALE NIGUARDA MILANO Tel. 02/66101029 (24/24h) -CENTRO ANTIVELENI POLICLINICO A.GEMELL ROMA Tel. 06/3054343 (24/24h) -

# **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 (EU) Regulation 2020/878. 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. Causes serious eye damage. Serious eye damage, category 1 H318 Skin irritation, category 2 H315 Causes skin irritation. Skin sensitization, category 1A May cause an allergic skin reaction. H317

Harmful to aquatic life with long lasting effects. Hazardous to the aquatic environment, chronic toxicity, H412

category 3

# 2.2. Label elements

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

# **PLT 15 WHITE 2: 60 BN,**

Revision nr. 4

Dated 06/12/2022 Printed on 06/12/2022

Page n. 2/25

Replaced revision:3 (Dated: 08/03/2021)

#### Hazard pictograms:







Signal words:

Danger

#### Hazard statements:

H226 Flammable liquid and vapour. H318 Causes serious eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

# Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

Wear protective gloves/ protective clothing / eye protection / face protection. P280

P310 Immediately call a POISON CENTER or a doctor.

P370+P378 In case of fire: use chemical powder, CO2 or dry send to extinguish.

P261 Avoid breathing dust, gas or vapours.

Contains: CYCLOHEXANONE

MALEIC ANHYDRIDE

**BUTANOL** 

# 2.3. Other hazards

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

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

# **SECTION 3. Composition/information on ingredients**

# 3.2. Mixtures

Contains:

Identification Classification (EC) 1272/2008 (CLP) x = Conc. %

**TITANIUM DIOXIDE** 

INDEX - $32,5 \le x < 35$ 

EC 236-675-5 CAS 13463-67-7 Acrylate resin

**INDEX**  $16,5 \le x < 18$ Eye Irrit. 2 H319, Skin Irrit. 2 H315

# Revision nr. 4 **COMEC ITALIA SRL** Dated 06/12/2022 Printed on 06/12/2022 **PLT 15 WHITE 2: 60 BN,** Page n. 3/25 Replaced revision:3 (Dated: 08/03/2021)

EC

CAS -

**CYCLOHEXANONE** 

INDEX 606-010-00-7  $13.5 \le x < 15$ 

H332, Eye Dam. 1 H318, Skin Irrit. 2 H315

EC 203-631-1

LD50 Oral: 1535 mg/kg, LD50 Dermal: 1100 mg/kg, LC50 Inhalation vapours:

Flam. Lig. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4

11 mg/l/4h

REACH Reg. 01-2119453616-35-

XXXX

4-HYDROXY-4-METHYLPENTAN-

2-ONE

INDEX 603-016-00-1  $6 \le x < 7$ Flam. Liq. 3 H226, Eye Irrit. 2 H319

EC 204-626-7 CAS 123-42-2

CAS 108-94-1

REACH Reg. 01-2119473975-

21xxxx

2-METHOXY-1-METHYLETHYL

**ACETATE** 

INDEX 607-195-00-7 Flam. Lig. 3 H226, STOT SE 3 H336  $5 \le x < 6$ 

EC 203-603-9 CAS 108-65-6

REACH Reg. 01-2119475791-29-

XXXX

Hydrocarbons, C10, aromatics,

<1% naphtalene

INDEX - $5 \le x < 6$ Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066

EC 918-811-1

CAS -

REACH Reg. 01-2119463583-34-

XXXX **BUTANOL** 

INDEX 603-004-00-6

Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, STOT SE 3 H336  $1.5 \le x < 2$ 

STA Oral: 500 mg/kg

EC 200-751-6

CAS 71-36-3

REACH Reg. 01-2119484630-38

**AROMATIC HYDROCARBONS, C9** 

Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336. INDEX - $0.7 \le x < 0.8$ 

Aquatic Chronic 2 H411, EUH066, Classification note according to Annex VI

to the CLP Regulation: P

EC 918-668-5

CAS -

REACH Reg. 01-2119455851-35-

xxxx

**MALEIC ANHYDRIDE** 

Acute Tox. 4 H302, STOT RE 1 H372, Skin Corr. 1B H314, Eye Dam. 1 INDEX 607-096-00-9  $0,001 \le x < 0,01$ 

H318, Resp. Sens. 1 H334, Skin Sens. 1A H317, EUH071

EC 203-571-6 Skin Sens. 1A H317: ≥ 0,001%

CAS 108-31-6 LD50 Oral: 400 mg/kg

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

# **SECTION 4. First aid measures**

COMEC ITALIA SRL	Revision nr. 4
	Dated 06/12/2022
PLT 15 WHITE 2: 60 BN,	Printed on 06/12/2022
, ,	Page n. 4/25
	Replaced revision:3 (Dated: 08/03/2021)

#### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

# 4.2. Most important symptoms and effects, both acute and delayed

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

#### 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.

COMEC ITALIA SRL	Revision nr. 4
	Dated 06/12/2022
PLT 15 WHITE 2: 60 BN,	Printed on 06/12/2022
,	Page n. 5/25
	Replaced revision:3 (Dated: 08/03/2021)

#### 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 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 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 químicos. 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 w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy

# PLT 15 WHITE 2: 60 BN,

Revision nr. 4

Dated 06/12/2022

Printed on 06/12/2022

Page n. 6/25

Replaced revision:3 (Dated: 08/03/2021)

ROU România

SWE

Inhalation

CYCL OHEYANONE

Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea

şi completarea hotărârii guvernului nr. 1.093/2006 Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS

TUR Türkiye United Kingdom OEL EU GBR EU

Sverige

Nygerilska graisvarderi, Arbeidrinjoverieta iotosamici odri alimiania (da sin rygerilaria graisvarderi, Arbeidrinjoverieta iotosamici odri alimiania (da sin rygerilaria) (2018:1)

Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/183; 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

Threshold Limit Value								
Гуре	Country	TWA/8h		STEL/15min		Remarks / Observatio	ns	
		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					Totaldam	ım
WEL	GBR	10				INHAL		
WEL	GBR	4				RESP		
TLV-ACGIH		2,5				RESP		
Predicted no-effect concentr	ation - PNEC							
Normal value in fresh water				0,127	mg	/I		
Normal value in marine water	er			1	mg	/I		
Normal value for fresh water	sediment			1000	mg	/kg		
Normal value for marine wat	er sediment			100	mg	/kg		
Normal value for water, inter	mittent release			0,61	mg	/I		
Normal value of STP microo	rganisms			100	mg	/I		
Normal value for the terrestr	ial compartment			100	mg.	/kg		
Health - Derived no-effe		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				700 mg/m3		-,0.0		- 30.0

Inhalation	10 mg/m3

Туре	Country	TWA/8h		STEL/15min		Remarks / Observatior	าร	
		mg/m3	ppm	mg/m3	ppm			
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		

		evision nr. 4 ated 06/12/2022						
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	PLI	15 WHITE	2: 60 BN,				age n. 7/25	
							eplaced revision:3 (Date	ed: 08/03/2021)
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 concentrati	on - PNEC		20	201		ORIN		
Normal value in fresh water				0,1	mg	g/l		
Normal value in marine water				0,01	mç			
Normal value for fresh water se	ediment			0,512		g/kg		
				0,0512		g/kg		
Normal value for marine water					mç			
	ittent release			0.329				
Normal value for water, intermi				0,329				
Normal value for water, intermi	anisms			0,329 10 0,0435	mç	g/l		
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial	anisms  compartment  t level - DNEL / I  Effects on	DMEL		10	mç mç Effects on			
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effec	anisms compartment t level - DNEL / I	DMEL  Acute systemic	Chronic local	10 0,0435 Chronic	mç mç	g/l g/kg Acute	Chronic local	Chronic
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure	compartment  t level - DNEL / I  Effects on consumers		Chronic local	10 0,0435  Chronic systemic	mg Effects on workers	g/l g/kg	Chronic local	Chronic systemic
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure	compartment  t level - DNEL / I  Effects on consumers			10 0,0435  Chronic systemic 1,5 mg/kg bw/d	mg Effects on workers	g/l g/kg Acute		systemic
Normal value for marine water Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin	compartment  t level - DNEL / I  Effects on consumers		VND	Chronic systemic 1,5 mg/kg bw/d 10 mg/m3	mg Effects on workers	g/l g/kg Acute	VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure	compartment  t level - DNEL / I  Effects on consumers			10 0,0435  Chronic systemic 1,5 mg/kg bw/d	mg Effects on workers	g/l g/kg Acute		systemic
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral	compartment  t level - DNEL / I  Effects on  consumers  Acute local		VND	Chronic systemic 1,5 mg/kg bw/d 10 mg/m3	mg Effects on workers	g/l g/kg Acute	VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 4-HYDROXY-4-METHYLP Threshold Limit Value	compartment  t level - DNEL / I Effects on consumers Acute local	Acute systemic	VND	Chronic systemic 1,5 mg/kg bw/d 10 mg/m3 1 mg/kg bw/d	mg Effects on workers	g/l g/kg Acute systemic	VND VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 4-HYDROXY-4-METHYLP Threshold Limit Value	compartment  t level - DNEL / I  Effects on  consumers  Acute local		VND	Chronic systemic 1,5 mg/kg bw/d 10 mg/m3	mg Effects on workers	g/l g/kg Acute	VND VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 4-HYDROXY-4-METHYLP Threshold Limit Value	compartment  t level - DNEL / I Effects on consumers Acute local	Acute systemic	VND	Chronic systemic 1,5 mg/kg bw/d 10 mg/m3 1 mg/kg bw/d	mg Effects on workers	g/l g/kg Acute systemic	VND VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 4-HYDROXY-4-METHYLP Threshold Limit Value Type	compartment  t level - DNEL / I  Effects on consumers Acute local  ENTAN-2-ONE  Country	Acute systemic	VND VND	Chronic systemic 1,5 mg/kg bw/d 10 mg/m3 1 mg/kg bw/d	Effects on workers Acute local	g/l g/kg Acute systemic	VND VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 4-HYDROXY-4-METHYLP Threshold Limit Value Type	compartment  t level - DNEL / I Effects on consumers Acute local  ENTAN-2-ONE Country	Acute systemic  TWA/8h  mg/m3	VND VND	10 0,0435  Chronic systemic 1,5 mg/kg bw/d 10 mg/m3 1 mg/kg bw/d  STEL/15min mg/m3	Effects on workers Acute local	g/l g/kg Acute systemic	VND VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 4-HYDROXY-4-METHYLP	compartment  t level - DNEL / I  Effects on consumers Acute local  ENTAN-2-ONE  Country	TWA/8h mg/m3 200	VND VND ppm 41,4	Chronic systemic 1,5 mg/kg bw/d 10 mg/m3 1 mg/kg bw/d STEL/15min mg/m3 300	Effects on workers Acute local	Acute systemic  Remark Observ	VND VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin  4-HYDROXY-4-METHYLP Threshold Limit Value Type  TLV AGW	compartment  t level - DNEL / I Effects on consumers Acute local  ENTAN-2-ONE Country  CZE DEU	TWA/8h mg/m3 200 96	VND VND ppm 41,4 20	Chronic systemic 1,5 mg/kg bw/d 10 mg/m3 1 mg/kg bw/d 300 192	ppm 62,1 40	Acute systemic  Remark Observers	VND VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin  4-HYDROXY-4-METHYLP Threshold Limit Value Type  TLV  AGW MAK TLV	compartment  t level - DNEL / I  Effects on consumers Acute local  ENTAN-2-ONE  Country  CZE  DEU  DEU	TWA/8h mg/m3 200 96 96	VND VND ppm 41,4 20 20	Chronic systemic 1,5 mg/kg bw/d 10 mg/m3 1 mg/kg bw/d 300 192	ppm 62,1 40	Acute systemic  Remark Observers	VND VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin  4-HYDROXY-4-METHYLP Threshold Limit Value Type  TLV AGW MAK TLV VLA	ENTAN-2-ONE  Country  CZE  DEU  DNK  ESP  FRA	TWA/8h mg/m3 200 96 96 240	VND VND ppm 41,4 20 20 50	Chronic systemic 1,5 mg/kg bw/d 10 mg/m3 1 mg/kg bw/d 300 192	ppm 62,1 40	Acute systemic  Remark Observers	VND VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin 4-HYDROXY-4-METHYLP Threshold Limit Value Type  TLV AGW MAK	ENTAN-2-ONE  Country  CZE  DEU  DNK  ESP	TWA/8h mg/m3 200 96 96 240 241	PPM 41,4 20 20 50 50	Chronic systemic 1,5 mg/kg bw/d 10 mg/m3 1 mg/kg bw/d 300 192	ppm 62,1 40	Acute systemic  Remark Observers	VND VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin  4-HYDROXY-4-METHYLP Threshold Limit Value Type  TLV AGW MAK TLV VLA	ENTAN-2-ONE  Country  CZE  DEU  DNK  ESP  FRA	TWA/8h mg/m3 200 96 96 240 241 240	PPM 41,4 20 20 50 50	Chronic systemic 1,5 mg/kg bw/d 10 mg/m3 1 mg/kg bw/d 300 192	ppm 62,1 40	Acute systemic  Remark Observ	VND VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin  4-HYDROXY-4-METHYLP Threshold Limit Value Type  TLV AGW MAK TLV VLA VLEP TGG	ENTAN-2-ONE  Country  CZE  DEU  DNK  ESP  FRA  NLD	TWA/8h mg/m3 200 96 240 241 240 120	PPM 41,4 20 20 50 50	Chronic systemic 1,5 mg/kg bw/d 10 mg/m3 1 mg/kg bw/d 300 192	ppm 62,1 40	Acute systemic  Remark Observ	VND VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin  4-HYDROXY-4-METHYLP Threshold Limit Value Type  TLV AGW MAK TLV VLA VLEP TGG NDS/NDSCh TLV	ENTAN-2-ONE  Country  CZE  DEU  DNK  ESP  FRA  NLD  POL	TWA/8h mg/m3 200 96 96 240 241 240 120 240	PPM 41,4 20 20 50 50 50	10 0,0435  Chronic systemic 1,5 mg/kg bw/d 10 mg/m3 1 mg/kg bw/d  STEL/15min mg/m3 300 192 192	ppm 62,1 40	Acute systemic  Remark Observ	VND VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin  4-HYDROXY-4-METHYLP Threshold Limit Value Type  TLV AGW MAK TLV VLA VLEP TGG NDS/NDSCh TLV NGV/KGV	ENTAN-2-ONE  Country  CZE  DEU  DNK  ESP  FRA  NLD  POL  ROU	TWA/8h mg/m3 200 96 96 240 241 240 120 240 150	VND VND VND ppm 41,4 20 20 50 50	Chronic systemic 1,5 mg/kg bw/d 10 mg/m3 1 mg/kg bw/d 10 mg/m3 2 300 192 192	ppm 62,1 40 40	Acute systemic  Remark Observ	VND VND	systemic 40 mg/m3
Normal value for water, intermi Normal value of STP microorga Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin  4-HYDROXY-4-METHYLP Threshold Limit Value Type  TLV AGW MAK TLV VLA VLEP TGG NDS/NDSCh	ENTAN-2-ONE  Country  CZE  DEU  DNK  ESP  FRA  NLD  POL  ROU  SWE	TWA/8h mg/m3 200 96 96 240 241 240 120 240 150	Ppm 41,4 20 20 50 50 50 32 25	10 0,0435  Chronic systemic 1,5 mg/kg bw/d 10 mg/m3 1 mg/kg bw/d  STEL/15min mg/m3 300 192 192 250 240 (C)	ppm 62,1 40 40 53 50 (C)	Acute systemic  Remark Observ	VND VND	systemic 40 mg/m3

	C	OMEC ITAL	IA SRL				Revision nr. 4  Dated 06/12/2022		
	PLT	15 WHITE	2: 60 BN				inted on 06/12/2022		
			55 511,			Pa	age n. 8/25		
						Re	eplaced revision:3 (Date	ed: 08/03/2021)	
Normal value in fresh water				2	mg	/I			
Normal value in marine water				0,2	mg	/I			
Normal value for fresh water so	ediment			9,06	mg	/kg			
Normal value for marine water	sediment			0,91	mg	/kg			
Normal value for water, interm	ittent release			1	mg	/I			
Normal value of STP microorg	anisms			82	mg	/I			
Normal value for the terrestrial	compartment			0,63	mg	/kg			
Health - Derived no-effec	t 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				3,4 mg/kg					
Inhalation				11,8 mg/m3				66,4 mg/m3	
Skin				3,4 mg/kg				9,4 mg/kg	
DIETUVI ENE CUNCO:	IONOFTING ET	IED							
DIETHYLENE GLYCOL M Threshold Limit Value	IONOE I HYL ETH	1EK							
Туре	Country	TWA/8h		STEL/15min		Remark Observ			
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	35	6	70	12		11		
NGV/KGV	SWE	80	15	170 (C)	30 (C)	SKIN			
Predicted no-effect concentration	ion - PNEC			1.00					
Normal value in fresh water				1,98	mg				
				0,198	mg	/1			
	ediment			7 32	ma	/ka/d			
Normal value for fresh water so				7,32		/kg/d			
Normal value for fresh water so	sediment			0,732	mg	/kg/d			
Normal value for fresh water so Normal value for marine water Normal value of STP microorg	sediment	ning)		0,732 500	mg mg	/kg/d /l			
Normal value for fresh water so Normal value for marine water Normal value of STP microorg Normal value for the food chair	sediment anisms n (secondary poisor	ing)		0,732 500 444	mg mg mg	/kg/d /I /kg			
Normal value for fresh water so Normal value for marine water Normal value of STP microorg Normal value for the food chain Normal value for the terrestrial	sediment anisms n (secondary poisor compartment	<u> </u>		0,732 500	mg mg mg	/kg/d /l			
Normal value for fresh water so Normal value for marine water Normal value of STP microorg Normal value for the food chain Normal value for the terrestrial	sediment anisms n (secondary poisor compartment t level - DNEL / I Effects on	<u> </u>		0,732 500 444	mg mg mg	/kg/d /I /kg			
Normal value for fresh water so Normal value for marine water Normal value of STP microorg Normal value for the food chair Normal value for the terrestrial Health - Derived no-effec	sediment anisms n (secondary poisor compartment t level - DNEL / I	<u> </u>	Chronic local	0,732 500 444 0,34	mg mg mg	/kg/d //kg/d //kg //kg/d Acute	Chronic local	Chronic	
Normal value for fresh water so Normal value for marine water Normal value of STP microorg Normal value for the food chain Normal value for the terrestrial Health - Derived no-effect Route of exposure	sediment anisms n (secondary poisor compartment t level - DNEL / [ Effects on consumers	DMEL	Chronic local	0,732 500 444 0,34	mg mg mg	/kg/d //l //kg //kg/d	Chronic local	Chronic systemic	
Normal value for fresh water so Normal value for marine water Normal value of STP microorg Normal value for the food chain Normal value for the terrestrial Health - Derived no-effect Route of exposure	sediment anisms n (secondary poisor compartment t level - DNEL / [ Effects on consumers	DMEL	Chronic local	0,732 500 444 0,34  Chronic systemic 50 mg/kg	mg mg mg	/kg/d //kg/d //kg //kg/d Acute	Chronic local 30 mg/m3		
Normal value in marine water Normal value for fresh water so Normal value for marine water Normal value of STP microorg Normal value for the food chain Normal value for the terrestrial Health - Derived no-effect  Route of exposure  Oral Inhalation  Skin	sediment anisms n (secondary poisor compartment t level - DNEL / [ Effects on consumers	DMEL		0,732 500 444 0,34  Chronic systemic 50 mg/kg bw/d	mg mg mg	/kg/d //kg/d //kg //kg/d Acute		systemic	
Normal value for fresh water so Normal value for marine water Normal value of STP microorg Normal value for the food chain Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin	sediment anisms n (secondary poisor compartment t level - DNEL / I Effects on consumers Acute local	DMEL  Acute systemic		0,732 500 444 0,34  Chronic systemic 50 mg/kg bw/d 37 mg/m3 25 mg/kg	mg mg mg	/kg/d //kg/d //kg /kg/d Acute		systemic 61 mg/m3 83 mg/kg	
Normal value for fresh water so Normal value for marine water Normal value of STP microorg Normal value for the food chain Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral	sediment anisms n (secondary poisor compartment t level - DNEL / I Effects on consumers Acute local	Acute systemic  TWA/8h	18 mg/m3	0,732 500 444 0,34  Chronic systemic 50 mg/kg bw/d 37 mg/m3 25 mg/kg bw/d STEL/15min	mg mg mg mg mg selffects on workers Acute local	/kg/d //kg/d //kg /kg/d Acute	30 mg/m3	systemic 61 mg/m3 83 mg/kg	
Normal value for fresh water so Normal value for marine water Normal value of STP microorg Normal value for the food chain Normal value for the terrestrial Health - Derived no-effect Route of exposure  Oral Inhalation Skin  2-METHOXY-1-METHYLE Threshold Limit Value Type	sediment anisms n (secondary poisor compartment tt level - DNEL / I Effects on consumers Acute local	Acute systemic  TWA/8h  mg/m3	18 mg/m3	0,732  500  444  0,34  Chronic systemic 50 mg/kg bw/d 37 mg/m3  25 mg/kg bw/d STEL/15min mg/m3	mg mg mg mg mg Effects on workers Acute local	/kg/d //kg //kg //kg Acute systemic  Remark Observ	30 mg/m3	systemic 61 mg/m3 83 mg/kg	
Normal value for fresh water so Normal value for marine water Normal value of STP microorg Normal value for the food chain Normal value for the terrestrial Health - Derived no-effect Route of exposure  Oral Inhalation  Skin  2-METHOXY-1-METHYLE Threshold Limit Value  Type	sediment anisms n (secondary poisor compartment t level - DNEL / I Effects on consumers Acute local	Acute systemic  TWA/8h mg/m3 275	18 mg/m3  ppm 50	0,732 500 444 0,34  Chronic systemic 50 mg/kg bw/d 37 mg/m3 25 mg/kg bw/d  STEL/15min mg/m3 550	mg mg mg mg mg mg mg Effects on workers Acute local	/kg/d //l //kg //kg/d Acute systemic  Remark Observ	30 mg/m3	systemic 61 mg/m3 83 mg/kg	
Normal value for fresh water so Normal value for marine water Normal value of STP microorg Normal value for the food chain Normal value for the terrestrial Health - Derived no-effect Route of exposure  Oral Inhalation  Skin  2-METHOXY-1-METHYLE Threshold Limit Value Type  TLV  TLV	sediment anisms n (secondary poisor compartment It level - DNEL / I Effects on consumers Acute local  THYL ACETATE  Country  BGR  CZE	TWA/8h mg/m3 275 270	18 mg/m3  ppm 50 49,14	0,732 500 444 0,34  Chronic systemic 50 mg/kg bw/d 37 mg/m3 25 mg/kg bw/d  STEL/15min mg/m3 550 550	mg m	/kg/d //kg //kg //kg Acute systemic  Remark Observ	30 mg/m3	systemic 61 mg/m3 83 mg/kg	
Normal value for fresh water so Normal value for marine water Normal value of STP microorg Normal value for the food chain Normal value for the terrestrial Health - Derived no-effect Route of exposure Oral Inhalation Skin  2-METHOXY-1-METHYLE Threshold Limit Value	sediment anisms n (secondary poisor compartment t level - DNEL / I Effects on consumers Acute local	Acute systemic  TWA/8h mg/m3 275	18 mg/m3  ppm 50	0,732 500 444 0,34  Chronic systemic 50 mg/kg bw/d 37 mg/m3 25 mg/kg bw/d  STEL/15min mg/m3 550	mg mg mg mg mg mg mg Effects on workers Acute local	/kg/d //l //kg //kg/d Acute systemic  Remark Observ	30 mg/m3	systemic 61 mg/m3 83 mg/kg	

	Revision nr. 4  Dated 06/12/2022							
							Printed on 06/12/2022	
	PLT	15 WHITE	2: 60 BN,				Printed on 06/12/2022 Page n. 9/25	
							Replaced revision:3 (Date	ed: 08/03/2021)
TLV	DNK	275	50			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						
VLE	PRT	275	50	550	100	SKIN		
NDS/NDSCh	POL	260		520		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	274	50	548	100	SKIN		
OEL	EU	275	50	550	100	SKIN		
Predicted no-effect concentration	on - PNEC			0.05=		,		
Normal value in fresh water				0,635	mg			
Normal value in marine water				0,0635	mg	ı/I		
Normal value for fresh water se				3,29	mg	ı/kg		
Normal value for marine water	sediment			0,329	mg	ı/I		
Normal value for water, intermit				6,35	mg	ı/I		
Normal value of STP microorga	anisms			100	mg	ı/I		
Normal value for the terrestrial	compartment			0,29	mg	ı/kg		
	t level - DNEL / [	OMEL		0,29	_	ı/kg		
Health - Derived no-effect	Effects on consumers				Effects on workers			
Health - Derived no-effect	t level - DNEL / I Effects on	OMEL  Acute systemic	Chronic local	0,29  Chronic systemic	Effects on	Acute systemic	Chronic local	Chronic systemic
Health - Derived no-effect	Effects on consumers		Chronic local	Chronic	Effects on workers	Acute	Chronic local	
Health - Derived no-effect  Route of exposure  Oral	Effects on consumers			Chronic systemic	Effects on workers	Acute	Chronic local VND	
Health - Derived no-effect  Route of exposure  Oral  Inhalation	Effects on consumers		VND	Chronic systemic 1,67 mg/kg	Effects on workers Acute local	Acute		systemic
Health - Derived no-effect  Route of exposure  Oral  Inhalation	Effects on consumers		VND 33 mg/m3	Chronic systemic 1,67 mg/kg 33 mg/m3	Effects on workers Acute local	Acute	VND	systemic 275 mg/m3
Route of exposure  Oral Inhalation Skin  Hydrocarbons, C10, arom	t level - DNEL / I Effects on consumers Acute local	Acute systemic	VND 33 mg/m3	Chronic systemic 1,67 mg/kg 33 mg/m3	Effects on workers Acute local	Acute	VND	systemic 275 mg/m3
Route of exposure  Oral Inhalation Skin  Hydrocarbons, C10, arom	t level - DNEL / I Effects on consumers Acute local	Acute systemic	VND 33 mg/m3	Chronic systemic 1,67 mg/kg 33 mg/m3	Effects on workers Acute local	Acute	VND	systemic 275 mg/m3
Route of exposure  Oral Inhalation Skin  Hydrocarbons, C10, arom Health - Derived no-effect	t level - DNEL / I  Effects on consumers  Acute local  Acute local  attics, <1% naple t level - DNEL / I  Effects on consumers	Acute systemic  ntalene DMEL	VND 33 mg/m3 VND	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg	Effects on workers  Acute local  550 mg/m3  Effects on workers	Acute systemic	VND VND	275 mg/m3 153,5 mg/kg
Route of exposure Oral Inhalation Skin Hydrocarbons, C10, arom Health - Derived no-effect	t level - DNEL / I  Effects on consumers  Acute local  natics, <1% napl t level - DNEL / I  Effects on	Acute systemic	VND 33 mg/m3 VND  Chronic local	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg	Effects on workers Acute local 550 mg/m3	Acute	VND	systemic 275 mg/m3
Route of exposure  Oral Inhalation Skin  Hydrocarbons, C10, arom Health - Derived no-effect  Route of exposure  Oral	t level - DNEL / I  Effects on consumers  Acute local  Acute local  attics, <1% naple t level - DNEL / I  Effects on consumers	Acute systemic  ntalene DMEL	VND 33 mg/m3 VND Chronic local	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg Chronic systemic 7,5 mg/kg/d	Effects on workers  Acute local  550 mg/m3  Effects on workers	Acute systemic	VND VND Chronic local	275 mg/m3 153,5 mg/kg Chronic systemic
Route of exposure  Oral Inhalation Skin  Hydrocarbons, C10, arom Health - Derived no-effect  Route of exposure  Oral Inhalation	t level - DNEL / I  Effects on consumers  Acute local  Acute local  attics, <1% naple t level - DNEL / I  Effects on consumers	Acute systemic  ntalene DMEL	VND 33 mg/m3 VND  Chronic local VND VND	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg Chronic systemic 7,5 mg/kg/d 32 mg/m3	Effects on workers  Acute local  550 mg/m3  Effects on workers	Acute systemic	VND VND Chronic local	275 mg/m3 153,5 mg/kg Chronic systemic
Route of exposure  Oral Inhalation Skin  Hydrocarbons, C10, arom Health - Derived no-effect  Route of exposure  Oral Inhalation	t level - DNEL / I  Effects on consumers  Acute local  Acute local  attics, <1% naple t level - DNEL / I  Effects on consumers	Acute systemic  ntalene DMEL	VND 33 mg/m3 VND Chronic local	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg Chronic systemic 7,5 mg/kg/d	Effects on workers  Acute local  550 mg/m3  Effects on workers	Acute systemic	VND VND Chronic local	275 mg/m3 153,5 mg/kg Chronic systemic
Route of exposure  Oral Inhalation Skin  Hydrocarbons, C10, arom Health - Derived no-effect  Route of exposure  Oral Inhalation Skin	t level - DNEL / I  Effects on consumers  Acute local  Acute local  attics, <1% naple t level - DNEL / I  Effects on consumers	Acute systemic  ntalene DMEL	VND 33 mg/m3 VND  Chronic local VND VND	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg Chronic systemic 7,5 mg/kg/d 32 mg/m3	Effects on workers  Acute local  550 mg/m3  Effects on workers	Acute systemic	VND VND Chronic local	275 mg/m3 153,5 mg/kg Chronic systemic
Health - Derived no-effect  Route of exposure  Oral  Inhalation  Skin  Hydrocarbons, C10, arom Health - Derived no-effect  Route of exposure  Oral  Inhalation  Skin  BUTANOL	t level - DNEL / I  Effects on consumers  Acute local  Acute local  attics, <1% naple t level - DNEL / I  Effects on consumers	Acute systemic  ntalene DMEL	VND 33 mg/m3 VND  Chronic local VND VND	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg Chronic systemic 7,5 mg/kg/d 32 mg/m3	Effects on workers  Acute local  550 mg/m3  Effects on workers	Acute systemic	VND VND Chronic local	275 mg/m3 153,5 mg/kg Chronic systemic
Route of exposure  Oral Inhalation Skin  Hydrocarbons, C10, arom Health - Derived no-effect  Route of exposure  Oral Inhalation  Skin  BUTANOL Threshold Limit Value	t level - DNEL / I  Effects on consumers  Acute local  Acute local  attics, <1% naple t level - DNEL / I  Effects on consumers	Acute systemic  ntalene DMEL	VND 33 mg/m3 VND  Chronic local VND VND	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg Chronic systemic 7,5 mg/kg/d 32 mg/m3	Effects on workers  Acute local  550 mg/m3  Effects on workers	Acute systemic  Acute systemic	VND VND Chronic local VND VND	275 mg/m3 153,5 mg/kg Chronic systemic
Route of exposure  Oral  Inhalation  Skin  Hydrocarbons, C10, arom Health - Derived no-effect  Route of exposure  Oral  Inhalation  Skin  BUTANOL  Threshold Limit Value	t level - DNEL / I  Effects on consumers  Acute local  natics, <1% napi t level - DNEL / I  Effects on consumers  Acute local	Acute systemic  Intalene DMEL  Acute systemic	VND 33 mg/m3 VND  Chronic local VND VND	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg Chronic systemic 7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d	Effects on workers  Acute local  550 mg/m3  Effects on workers	Acute systemic  Acute systemic	VND VND  Chronic local  VND VND	275 mg/m3 153,5 mg/kg Chronic systemic
Route of exposure  Oral Inhalation Skin  Hydrocarbons, C10, arom Health - Derived no-effect  Route of exposure  Oral Inhalation Skin  BUTANOL Threshold Limit Value Type	t level - DNEL / I  Effects on consumers  Acute local  natics, <1% napi t level - DNEL / I  Effects on consumers  Acute local	Acute systemic  Intalene DMEL  Acute systemic	VND 33 mg/m3 VND  Chronic local VND  VND  VND	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg Chronic systemic 7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min	Effects on workers Acute local  550 mg/m3  Effects on workers Acute local	Acute systemic  Acute systemic	VND VND Chronic local VND VND	275 mg/m3 153,5 mg/kg Chronic systemic
Route of exposure  Oral Inhalation Skin  Hydrocarbons, C10, arom Health - Derived no-effect  Route of exposure  Oral Inhalation Skin  BUTANOL Threshold Limit Value Type	t level - DNEL / I  Effects on consumers  Acute local  natics, <1% napl t level - DNEL / I  Effects on consumers  Acute local	Acute systemic  Intalene DMEL  Acute systemic  TWA/8h  mg/m3	VND 33 mg/m3 VND  Chronic local VND  VND  VND	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg  Chronic systemic 7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min mg/m3	Effects on workers Acute local  550 mg/m3  Effects on workers Acute local	Acute systemic  Acute systemic	VND VND Chronic local VND VND	275 mg/m3 153,5 mg/kg Chronic systemic
Route of exposure  Oral Inhalation Skin  Hydrocarbons, C10, arom Health - Derived no-effect  Route of exposure  Oral Inhalation Skin  BUTANOL Threshold Limit Value Type	t level - DNEL / I Effects on consumers Acute local  natics, <1% napl t level - DNEL / I Effects on consumers Acute local  Country	Acute systemic  ntalene DMEL  Acute systemic  TWA/8h  mg/m3  100	VND 33 mg/m3 VND Chronic local VND VND VND	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg  Chronic systemic 7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min mg/m3 150	Effects on workers Acute local  550 mg/m3  Effects on workers Acute local	Acute systemic  Acute systemic	VND VND Chronic local VND VND	275 mg/m3 153,5 mg/kg Chronic systemic
Route of exposure  Oral  Inhalation  Skin  Hydrocarbons, C10, arom Health - Derived no-effect  Route of exposure  Oral  Inhalation  Skin  BUTANOL Threshold Limit Value  TLV  TLV  AGW	t level - DNEL / I Effects on consumers Acute local  natics, <1% napl t level - DNEL / I Effects on consumers Acute local  Country  BGR CZE DEU	Acute systemic  Intalene  DMEL  Acute systemic  TWA/8h  mg/m3  100  300  310	VND 33 mg/m3 VND Chronic local VND VND VND Ppm 97,5 100	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg  Chronic systemic 7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min mg/m3 150 600 310	Effects on workers Acute local  550 mg/m3  Effects on workers Acute local  ppm  ppm  195 100	Acute systemic  Acute systemic	VND VND Chronic local VND VND	275 mg/m3 153,5 mg/kg Chronic systemic
Normal value for the terrestrial  Health - Derived no-effect  Route of exposure  Oral  Inhalation  Skin  Hydrocarbons, C10, arom Health - Derived no-effect  Route of exposure  Oral  Inhalation  Skin  BUTANOL Threshold Limit Value  Type  TLV  TLV  AGW  MAK  TLV	t level - DNEL / I Effects on consumers Acute local  natics, <1% naple t level - DNEL / I Effects on consumers Acute local  Country  BGR CZE	Acute systemic  Intalene DMEL  Acute systemic  TWA/8h  mg/m3  100  300	VND 33 mg/m3 VND Chronic local VND VND VND Ppm 97,5	Chronic systemic 1,67 mg/kg 33 mg/m3 54,8 mg/kg Chronic systemic 7,5 mg/kg/d 32 mg/m3 7,5 mg/kg/d STEL/15min mg/m3 150 600	Effects on workers Acute local  550 mg/m3  Effects on workers Acute local  ppm  195	Acute systemic  Acute systemic	VND VND Chronic local VND VND	275 mg/m3 153,5 mg/kg Chronic systemic

		evision nr. 4 ated 06/12/2022						
		inted on 06/12/2022						
	PLI	15 WHITE	2. 00 DIN,			Pa	ige n. 10/25	
							eplaced revision:3 (Date	ed: 08/03/2021)
						<b>'</b>		
VLA	ESP	61	20	154	50			
VLEP	FRA			150	50			
TGG	NLD			45				
NDS/NDSCh	POL	50		150		SKIN		
TLV	ROU	100	33	200	66			
NGV/KGV	SWE	45	15	90	30	SKIN		
WEL	GBR			154	50	SKIN		
TLV-ACGIH		61	20					
Predicted no-effect concentr	ration - PNEC							
Normal value in fresh water				0,082	mg	g/l		
Normal value in marine wate	er			0,0082	mg	g/l		
Normal value for fresh water	rsediment			0,178	mg	g/kg		
Normal value for marine wat	er sediment			0,0178	mg	g/kg		
Normal value for water, inter	rmittent release			2,25	mg	g/l		
Normal value of STP microo	rganisms			2476	mg	g/l		
Normal value for the terrestr	ial compartment			0,015	mg	g/kg		
Health - Derived no-effe		OMEL						
	- cc ·				Effects on workers			
	Effects on consumers				WOIKEIS			
Route of exposure		Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
	consumers	Acute systemic	Chronic local VND	Chronic systemic 3125 mg/kg		Acute systemic	Chronic local	Chronic systemic
Oral	consumers	Acute systemic		systemic			Chronic local 310 mg/m3	
Oral	consumers	Acute systemic	VND	systemic 3125 mg/kg				systemic
Oral Inhalation  AROMATIC HYDROCA	consumers Acute local	Acute systemic	VND	systemic 3125 mg/kg				systemic
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value	consumers Acute local	Acute systemic	VND	systemic 3125 mg/kg			310 mg/m3	systemic
Route of exposure  Oral  Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type	consumers Acute local  RBONS, C9	TWA/8h	VND 55 mg/m3	systemic 3125 mg/kg VND STEL/15min	Acute local	systemic	310 mg/m3	systemic
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type	consumers Acute local  RBONS, C9  Country	TWA/8h mg/m3	VND 55 mg/m3	systemic 3125 mg/kg VND		systemic  Remark	310 mg/m3	systemic VND
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP	Consumers Acute local  RBONS, C9  Country	TWA/8h mg/m3	VND 55 mg/m3 ppm 20	systemic 3125 mg/kg VND STEL/15min	Acute local	systemic  Remark	310 mg/m3 as / ations 1,2,3 trim	vnD vnD
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP OEL	consumers Acute local  RBONS, C9  Country	TWA/8h mg/m3	VND 55 mg/m3 ppm 20 20	systemic 3125 mg/kg VND STEL/15min	Acute local	systemic  Remark	310 mg/m3 25 / ations 1,2,3 trim	vnD vnD etilbenzene
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL TLV-ACGIH	Consumers Acute local  RBONS, C9  Country  ITA EU	TWA/8h mg/m3 100 100	VND 55 mg/m3 ppm 20	systemic 3125 mg/kg VND STEL/15min	Acute local	systemic  Remark	310 mg/m3 25 / ations 1,2,3 trim	vnD vnD
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL TLV-ACGIH	consumers Acute local  RBONS, C9  Country  ITA  EU  ect level - DNEL / Effects on	TWA/8h mg/m3 100 100	VND 55 mg/m3 ppm 20 20	systemic 3125 mg/kg VND STEL/15min	ppm  Effects on	systemic  Remark	310 mg/m3 25 / ations 1,2,3 trim	vnD vnD etilbenzene
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL  TLV-ACGIH  Health - Derived no-effe	consumers Acute local  RBONS, C9  Country  ITA  EU  ect level - DNEL / I  Effects on consumers	TWA/8h mg/m3 100 100	VND 55 mg/m3  ppm 20 20 25	systemic 3125 mg/kg VND STEL/15min mg/m3	ppm  Effects on workers	Remark Observa	310 mg/m3  2s / ations  1,2,3 trim  1,2,3 trim	vnD  etilbenzene etilbenzene etilbenzene
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL TLV-ACGIH Health - Derived no-effet Route of exposure	consumers Acute local  RBONS, C9  Country  ITA  EU  ect level - DNEL / Effects on	TWA/8h mg/m3 100 100	VND 55 mg/m3  ppm 20 20 25  Chronic local	systemic 3125 mg/kg VND  STEL/15min mg/m3	ppm  Effects on	systemic  Remark	310 mg/m3 25 / ations 1,2,3 trim	etilbenzene etilbenzene etilbenzene etilbenzene systemic
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL  TLV-ACGIH  Health - Derived no-effet  Route of exposure  Oral	consumers Acute local  RBONS, C9  Country  ITA  EU  ect level - DNEL / I  Effects on consumers	TWA/8h mg/m3 100 100	VND 55 mg/m3  ppm 20 20 25  Chronic local VND	systemic 3125 mg/kg VND  STEL/15min mg/m3  Chronic systemic 11 mg/kg	ppm  Effects on workers	Remark Observa	310 mg/m3  310 mg/m3  1,2,3 trim  1,2,3 trim  Chronic local	etilbenzene etilbenzene etilbenzene tilbenzene etilbenzene etilbenzene
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL TLV-ACGIH Health - Derived no-effet Route of exposure  Oral Inhalation	consumers Acute local  RBONS, C9  Country  ITA  EU  ect level - DNEL / I  Effects on consumers	TWA/8h mg/m3 100 100	VND 55 mg/m3  ppm 20 20 25  Chronic local VND VND	systemic 3125 mg/kg VND  STEL/15min mg/m3  Chronic systemic 11 mg/kg 32 mg/m3	ppm  Effects on workers	Remark Observa	310 mg/m3 as / ations 1,2,3 trim 1,2,3 trim Chronic local	etilbenzene etilbenzene etilbenzene etilbenzene itilbenzene
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL  TLV-ACGIH  Health - Derived no-effet  Route of exposure  Oral	consumers Acute local  RBONS, C9  Country  ITA  EU  ect level - DNEL / I  Effects on consumers	TWA/8h mg/m3 100 100	VND 55 mg/m3  ppm 20 20 25  Chronic local VND	systemic 3125 mg/kg VND  STEL/15min mg/m3  Chronic systemic 11 mg/kg	ppm  Effects on workers	Remark Observa	310 mg/m3  310 mg/m3  1,2,3 trim  1,2,3 trim  Chronic local	etilbenzene etilbenzene etilbenzene tilbenzene etilbenzene etilbenzene
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL TLV-ACGIH Health - Derived no-effet Route of exposure  Oral Inhalation Skin	Consumers Acute local  RBONS, C9  Country  ITA  EU  ect level - DNEL / Effects on consumers Acute local	TWA/8h mg/m3 100 100	VND 55 mg/m3  ppm 20 20 25  Chronic local VND VND	systemic 3125 mg/kg VND  STEL/15min mg/m3  Chronic systemic 11 mg/kg 32 mg/m3	ppm  Effects on workers	Remark Observa	310 mg/m3 as / ations 1,2,3 trim 1,2,3 trim Chronic local	etilbenzene etilbenzene etilbenzene etilbenzene itilbenzene
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL TLV-ACGIH Health - Derived no-effet Route of exposure  Oral Inhalation	Consumers Acute local  RBONS, C9  Country  ITA  EU  ect level - DNEL / Effects on consumers Acute local	TWA/8h mg/m3 100 100  DMEL  Acute systemic	VND 55 mg/m3  ppm 20 20 25  Chronic local VND VND	systemic 3125 mg/kg VND  STEL/15min mg/m3  Chronic systemic 11 mg/kg 32 mg/m3 11 mg/kg	ppm  Effects on workers	Remark Observe	310 mg/m3  310 mg/m3  1,2,3 trim  1,2,3 trim  Chronic local  VND  VND	etilbenzene etilbenzene etilbenzene etilbenzene itilbenzene
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL  TLV-ACGIH  Health - Derived no-effet  Route of exposure  Oral Inhalation Skin  HYDROM HYDROPHON Threshold Limit Value	Consumers Acute local  RBONS, C9  Country  ITA  EU  ect level - DNEL / Effects on consumers Acute local	TWA/8h mg/m3 100 100	VND 55 mg/m3  ppm 20 20 25  Chronic local VND VND	systemic 3125 mg/kg VND  STEL/15min mg/m3  Chronic systemic 11 mg/kg 32 mg/m3	ppm  Effects on workers	Remark Observa Acute systemic	310 mg/m3  310 mg/m3  1,2,3 trim  1,2,3 trim  Chronic local  VND  VND	etilbenzene etilbenzene etilbenzene etilbenzene itilbenzene
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL  TLV-ACGIH  Health - Derived no-effet  Route of exposure  Oral Inhalation Skin  HYDROM HYDROPHON	Consumers Acute local  RBONS, C9  Country  ITA  EU  ect level - DNEL / Effects on consumers Acute local	TWA/8h mg/m3 100 100  DMEL  Acute systemic	VND 55 mg/m3  ppm 20 20 25  Chronic local VND VND	systemic 3125 mg/kg VND  STEL/15min mg/m3  Chronic systemic 11 mg/kg 32 mg/m3 11 mg/kg	ppm  Effects on workers	Remark Observe	310 mg/m3  310 mg/m3  1,2,3 trim  1,2,3 trim  Chronic local  VND  VND	etilbenzene etilbenzene etilbenzene etilbenzene itilbenzene
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL  TLV-ACGIH  Health - Derived no-effet  Route of exposure  Oral Inhalation Skin  HYDROM HYDROPHON Threshold Limit Value	Consumers Acute local  RBONS, C9  Country  ITA  EU  ect level - DNEL / Effects on consumers Acute local	TWA/8h mg/m3 100 100  DMEL Acute systemic	VND 55 mg/m3  ppm 20 20 25  Chronic local VND VND	STEL/15min mg/m3  Chronic systemic 11 mg/kg 32 mg/m3 11 mg/kg  STEL/15min	ppm  Effects on workers  Acute local	Remark Observa Acute systemic	310 mg/m3  310 mg/m3  1,2,3 trim  1,2,3 trim  Chronic local  VND  VND	etilbenzene etilbenzene etilbenzene etilbenzene itilbenzene
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL TLV-ACGIH Health - Derived no-effet Route of exposure  Oral Inhalation Skin  HYDROM HYDROPHON Threshold Limit Value Type	Consumers Acute local  RBONS, C9  Country  ITA  EU  ect level - DNEL / Effects on consumers Acute local  NE SILICATE  Country	TWA/8h mg/m3 100 100  DMEL Acute systemic  TWA/8h mg/m3	VND 55 mg/m3  ppm 20 20 25  Chronic local VND VND	STEL/15min mg/m3  Chronic systemic 11 mg/kg 32 mg/m3 11 mg/kg  STEL/15min	ppm  Effects on workers  Acute local	Remark Observe Acute systemic	310 mg/m3  310 mg/m3  1,2,3 trim  1,2,3 trim  Chronic local  VND  VND	etilbenzene etilbenzene etilbenzene etilbenzene itilbenzene
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL TLV-ACGIH Health - Derived no-effet Route of exposure  Oral Inhalation Skin  HYDROM HYDROPHON Threshold Limit Value Type  AGW	Consumers Acute local  RBONS, C9  Country  ITA  EU  Ect level - DNEL / E  Effects on consumers Acute local  NE SILICATE  Country	TWA/8h mg/m3 100 100  DMEL Acute systemic  TWA/8h mg/m3 4	VND 55 mg/m3  ppm 20 20 25  Chronic local VND VND	STEL/15min mg/m3  Chronic systemic 11 mg/kg 32 mg/m3 11 mg/kg  STEL/15min	ppm  Effects on workers  Acute local	Remark Observa	310 mg/m3  310 mg/m3  1,2,3 trim  1,2,3 trim  Chronic local  VND  VND	etilbenzene etilbenzene etilbenzene etilbenzene itilbenzene
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL TLV-ACGIH Health - Derived no-effet Route of exposure  Oral Inhalation Skin  HYDROM HYDROPHON Threshold Limit Value Type  AGW	Consumers Acute local  RBONS, C9  Country  ITA  EU  Ect level - DNEL / I  Effects on consumers Acute local  NE SILICATE  Country  DEU  DEU	TWA/8h mg/m3 100 100  DMEL Acute systemic  TWA/8h mg/m3 4	VND 55 mg/m3  ppm 20 20 25  Chronic local VND VND	STEL/15min mg/m3  Chronic systemic 11 mg/kg 32 mg/m3 11 mg/kg  STEL/15min	ppm  Effects on workers  Acute local	Remark Observa	310 mg/m3  310 mg/m3  1,2,3 trim  1,2,3 trim  Chronic local  VND  VND	etilbenzene etilbenzene etilbenzene etilbenzene itilbenzene
Oral Inhalation  AROMATIC HYDROCAI Threshold Limit Value Type  VLEP  OEL TLV-ACGIH Health - Derived no-effet Route of exposure  Oral Inhalation Skin  HYDROM HYDROPHON Threshold Limit Value Type  AGW MAK	Consumers Acute local  RBONS, C9  Country  ITA  EU  Ect level - DNEL / I  Effects on consumers Acute local  NE SILICATE  Country  DEU  DEU	TWA/8h mg/m3 100 100  DMEL Acute systemic  TWA/8h mg/m3 4	VND 55 mg/m3  ppm 20 20 25  Chronic local VND VND	STEL/15min mg/m3  Chronic systemic 11 mg/kg 32 mg/m3 11 mg/kg  STEL/15min	ppm  Effects on workers  Acute local	Remark Observa	310 mg/m3  310 mg/m3  1,2,3 trim  1,2,3 trim  Chronic local  VND  VND	etilbenzene etilbenzene etilbenzene etilbenzene itilbenzene

# PLT 15 WHITE 2: 60 BN,

Revision nr. 4

Dated 06/12/2022

Printed on 06/12/2022

Page n. 11/25

Replaced revision:3 (Dated: 08/03/2021)

Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,0032	mg/l	
Normal value in marine water	0,0032	mg/l	
Normal value for fresh water sediment	15,6	mg/kg	
Normal value for water, intermittent release	0,0032	mg/l	
Normal value of STP microorganisms	35	mg/l	_
Normal value for the terrestrial compartment	0,865	mg/kg/d	

Health - Derived no-eff	ect level - DNEL / D	OMEL						
	Effects on				Effects on			
	consumers				workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		1,3 mg/kg bw/d						
Inhalation				4,4 mg/m3				17,8 mg/m3
Skin				13 mg/kg bw/d				25,5 mg/kg bw/d

Phthalic anhydride with less than 0,05% of maleic anhydride						
Threshold Limit Value						
Туре	Country	TWA/8h		STEL/15min		Remarks /
						Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		1				

Threshold Limit Value Type	Country	TWA/8h	STEL/15min			Remarks /	
						Observations	Observations
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	1					
TLV	CZE	1	0,245	2	0,49		
AGW	DEU	0,081	0,02	0,081 (C)	0,02 (C)		
MAK	DEU	0,081	0,02	0,081 (C)	0,02 (C)		C = 0,20 mg/m3
TLV	DNK	0,4	0,1				
VLA	ESP	0,4	0,1				
VLEP	FRA			1			
NDS/NDSCh	POL	0,5		1		SKIN	
TLV	ROU	1	0,25	3	0,75		
NGV/KGV	SWE	0,2	0,05	0,4	0,1		
WEL	GBR	1		3			
TLV-ACGIH		0,01	0,0025			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

# | Revision nr. 4 | | Dated 06/12/2022 | | Printed on 06/12/2022 | | Page n. 12/25 | | Replaced revision:3 (Dated: 08/03/2021)

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

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

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

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

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

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

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

#### SKIN PROTECTION

Wear category 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.

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

Properties	Value	Information
Appearance	liquid	
Colour	yellow	
Odour	ketonic	
Melting point / freezing point	not available	
Initial boiling point	> 125 °C	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	60 °C	
Auto-ignition temperature	not available	

# PLT 15 WHITE 2: 60 BN,

Revision nr. 4

Dated 06/12/2022 Printed on 06/12/2022

Page n. 13/25

Replaced revision:3 (Dated: 08/03/2021)

Decomposition temperature not available not available Kinematic viscosity not available Solubility not available Partition coefficient: n-octanol/water not available 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) 38,84 % VOC (volatile carbon) 26,57 %

# **SECTION 10. Stability and reactivity**

# 10.1. Reactivity

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

CYCLOHEXANONE

Attacks various types of plastic materials.

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

4-HYDROXY-4-METHYLPENTAN-2-ONE

Decomposes at temperatures above 90°C/194°F.

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.

BUTANOL

Attacks various types of plastic materials.

# 10.2. Chemical stability

# COMEC ITALIA SRL | Revision nr. 4 | | Dated 06/12/2022 | | Printed on 06/12/2022 | | Page n. 14/25 | | Replaced revision:3 (Dated: 08/03/2021)

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.

#### 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.

#### 4-HYDROXY-4-METHYLPENTAN-2-ONE

Risk of explosion on contact with: air, sources of heat. May react dangerously with: alkaline metals, amines, oxidising agents, acids.

#### DIETHYLENE GLYCOL MONOETHYL ETHER

Forms explosive mixtures with: air.May react dangerously with: oxidising agents, aluminium.

# 2-METHOXY-1-METHYLETHYL ACETATE

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

#### 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.

# 4-HYDROXY-4-METHYLPENTAN-2-ONE

Avoid exposure to: light, 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.

# COMEC ITALIA SRL Revision nr. 4 Dated 06/12/2022 PLT 15 WHITE 2: 60 BN, Printed on 06/12/2022 Page n. 15/25 Replaced revision:3 (Dated: 08/03/2021)

# **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

Hydrocarbons, C10, aromatics, <1% naphtalene Specific target organ toxicity (STOT) - single exposure: NOAEC> 600 mg / kg Inhalation. Rat

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

4-HYDROXY-4-METHYLPENTAN-2-ONE WORKERS: inhalation; contact with the skin.

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

# 4-HYDROXY-4-METHYLPENTAN-2-ONE

Acute toxicity causes irritation of the eyes, nose and throat in humans at 100 ppm (476 mg/kg) and pulmonary disorders at 400 ppm. No chronic effects on humans have been reported. The substance may have a depressive effect on the respiratory centres and cause death from respiratory failure.

# 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

# **PLT 15 WHITE 2: 60 BN,**

Revision nr. 4

Dated 06/12/2022 Printed on 06/12/2022

Page n. 16/25

Replaced revision:3 (Dated: 08/03/2021)

Information not available

**ACUTE TOXICITY** 

ATE (Inhalation - vapours) of the mixture: > 20 mg/l
ATE (Oral) of the mixture: >2000 mg/kg
ATE (Dermal) of the mixture: >2000 mg/kg

TITANIUM DIOXIDE

LD50 (Oral): > 5000 mg/l Ratto/Rat LC50 (Inhalation mists/powders): > 6,82 mg/l Ratto/Rat

CYCLOHEXANONE

LD50 (Dermal): 1100 mg/kg 794 - 3160 / Coniglio / Rabbit

LD50 (Oral): 1535 mg/kg Ratto / Rat LC50 (Inhalation vapours): 11 mg/l/4h Ratto / Rat (4h)

4-HYDROXY-4-METHYLPENTAN-2-ONE

 LD50 (Dermal):
 > 1875 mg/kg Ratto / Rat

 LD50 (Oral):
 3002 mg/kg Rat

 LC50 (Inhalation vapours):
 > 7,6 mg/l Ratto / Rat

DIETHYLENE GLYCOL MONOETHYL ETHER

 LD50 (Dermal):
 9143 mg/kg Coniglio / Rabbit

 LD50 (Oral):
 6031 mg/kg Topo / Mouse

 LC50 (Inhalation vapours):
 0,02 mg/l/8h Ratto / Rat

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal):> 5000 mg/kg Coniglio / RabbitLD50 (Oral):8500 mg/kg Ratto / RatLC50 (Inhalation vapours):4345 ppm/6h Ratto / Rat

Hydrocarbons, C10, aromatics, <1% naphtalene

 LD50 (Dermal):
 > 2000 mg/kg Coniglio / Rabbit

 LD50 (Oral):
 6318 mg/kg Ratto / Rat

 LC50 (Inhalation vapours):
 > 4688 mg/kg/4h Ratto / Rat

BUTANOL

 LD50 (Dermal):
 3400 mg/kg Rabbit

 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

AROMATIC HYDROCARBONS, C9

 LD50 (Dermal):
 > 3160 mg/kg Ratto / Rat

 LD50 (Oral):
 3492 mg/kg Ratto / Rat

 LC50 (Inhalation vapours):
 > 6193 mg/l/4h Ratto / Rat

# **COMEC ITALIA SRL** Dated 06/12/2022 PLT 15 WHITE 2: 60 BN, Printed on 06/12/2022 Page n. 17/25 Replaced revision:3 (Dated: 08/03/2021) MALEIC ANHYDRIDE LD50 (Dermal): 610 mg/kg Rat LD50 (Oral): 400 mg/kg Rat SKIN CORROSION / IRRITATION Causes skin irritation SERIOUS EYE DAMAGE / IRRITATION Causes serious eye damage RESPIRATORY OR SKIN SENSITISATION Sensitising for the skin **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 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

# PLT 15 WHITE 2: 60 BN,

Revision nr. 4

Dated 06/12/2022 Printed on 06/12/2022

Page n. 18/25

Replaced revision:3 (Dated: 08/03/2021)

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**

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

Hydrocarbons, C10, aromatics, <1%

naphtalene

LC50 - for Fish > 2 mg/l/96h

EC50 - for Crustacea > 3 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 1 mg/l/72h

AROMATIC HYDROCARBONS, C9

LC50 - for Fish > 9,2 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea > 3,2 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants > 2,9 mg/l/72h Pseudokirchneriella subcapitata

DIETHYLENE GLYCOL MONOETHYL

ETHER

LC50 - for Fish 6010 mg/l/96h Pesce OECD 203

EC50 - for Crustacea 1982 mg/l/48h Daphnia magna OECD 202

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** 

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

# PLT 15 WHITE 2: 60 BN,

Revision nr. 4

Dated 06/12/2022

Printed on 06/12/2022

Page n. 19/25

Replaced revision:3 (Dated: 08/03/2021)

4-HYDROXY-4-METHYLPENTAN-2-ONE

LC50 - for Fish > 100 mg/l/96h Oryzias latipes
EC50 - for Crustacea > 1000 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants < 1000 mg/l/72h Pseudokirchneriella subcapitata

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

12.2. Persistence and degradability

Hydrocarbons, C10, aromatics, <1%

naphtalene

Solubility in water immiscibile in H2O mg/l

Rapidly degradable

AROMATIC HYDROCARBONS, C9

Rapidly degradable

DIETHYLENE GLYCOL MONOETHYL

ETHER

Solubility in water 1000 g/l Completamente solubile

Rapidly degradable

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

4-HYDROXY-4-METHYLPENTAN-2-ONE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable AFNOR T 90-312 70% 10 d CYCLOHEXANONE

Solubility in water 86 mg/l

Rapidly degradable

MALEÍC ANHYDRIDE

Solubility in water > 10000 mg/l

Entirely degradable

12.3. Bioaccumulative potential

DIETHYLENE GLYCOL MONOETHYL

FTHER

Partition coefficient: n-octanol/water -0,54 misurato

2-METHOXY-1-METHYLETHYL ACETATE

Partition coefficient: n-octanol/water 1,2 BCF 100

BUTANOL

# **PLT 15 WHITE 2: 60 BN,**

1

Revision nr. 4

Dated 06/12/2022

Printed on 06/12/2022

Page n. 20/25

Replaced revision:3 (Dated: 08/03/2021)

Partition coefficient: n-octanol/water

3,16

4-HYDROXY-4-METHYLPENTAN-2-ONE

Partition coefficient: n-octanol/water -0,09

CYCLOHEXANONE

Partition coefficient: n-octanol/water 0,86

MALEIC ANHYDRIDE

Partition coefficient: n-octanol/water -2,78

#### 12.4. Mobility in soil

DIETHYLENE GLYCOL MONOETHYL

ETHER

Partition coefficient: soil/water 20 stimato

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

# 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 ≥ 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

# **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

# PLT 15 WHITE 2: 60 BN,

Dated 06/12/2022

Printed on 06/12/2022

Page n. 21/25

Replaced revision:3 (Dated: 08/03/2021)

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

PRINTING INK or PRINTING INK RELATED MATERIAL ADR / RID: PRINTING INK or PRINTING INK RELATED MATERIAL IMDG: PRINTING INK or PRINTING INK RELATED MATERIAL IATA:

# 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: Ш

# 14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

IATA:

# 14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited Tunnel Quantities: 5 restriction code: (D/E)

Special provision: 163, 367

IMDG: EMS: F-E, S-D Limited Quantities: 5

Packaging

instructions: 366 Packaging

instructions: 355

Cargo:

Maximum quantity: 220

Pass.: Maximum

quantity: 60 L

Special provision: A3, A72, A192

# Revision nr. 4 **COMEC ITALIA SRL** Dated 06/12/2022 **PLT 15 WHITE 2: 60 BN,** Printed on 06/12/2022 Page n. 22/25 Replaced revision:3 (Dated: 08/03/2021) 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** 

Point 3 - 40

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

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

# **PLT 15 WHITE 2: 60 BN,**

Revision nr. 4

Dated 06/12/2022

Printed on 06/12/2022

Page n. 23/25

Replaced revision:3 (Dated: 08/03/2021)

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

STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Asp. Tox. 1 Aspiration hazard, category 1
Skin Corr. 1B Skin corrosion, category 1B
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

Resp. Sens. 1 Respiratory sensitization, category 1
Skin Sens. 1A Skin sensitization, category 1A

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.
H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.
H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

**EUH066** Repeated exposure may cause skin dryness or cracking.

**EUH071** Corrosive to the respiratory tract.

### 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

# **PLT 15 WHITE 2: 60 BN,**

Dated 06/12/2022

Printed on 06/12/2022

Page n. 24/25

Replaced revision:3 (Dated: 08/03/2021)

- 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
- 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 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
- 10. Regulation (EÚ) 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)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP) 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII 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

COMEC ITALIA SRL	Revision nr. 4
-	Dated 06/12/2022
PLT 15 WHITE 2: 60 BN,	Printed on 06/12/2022
FEI 13 WITTE 2. 00 DIN,	Page n. 25/25
	Replaced revision:3 (Dated: 08/03/2021)
	Treplaced Tevision.5 (Dated: 00/05/2021)
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 Environmental hazards: Product classification is based on calculation methods as per Annex I of CLF	, unless determined otherwise in Section 11. P, Part 4, unless determined otherwise in Section 12.
For information on any exposure scenarios of the substances present in the mixture, contact Sericom	Italia srl.
Changes to previous review: The following sections were modified:	
01 / 02 / 03 / 08 / 09 / 11 / 12 / 14 / 15 / 16.	