Revision nr. 5 **COMEC ITALIA SRL** Dated 24/01/2023 Printed on 26/01/2023 PLT 22 METAL: B 79, 79-050, Page n. 1/24 Replaced revision:4 (Dated: 03/03/2021)

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 22 METAL: B 79, 79-050, Product name UFI: TNE2-U0HU-8001-EFE6

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. Specific target organ toxicity - single exposure, category 3 May cause drowsiness or dizziness. H336 Hazardous to the aquatic environment, chronic toxicity, Harmful to aquatic life with long lasting effects. H412 category 3

2.2. Label elements

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

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 2/24

Replaced revision:4 (Dated: 03/03/2021)

Hazard pictograms:







Signal words:

Danger

Hazard statements:

H226Flammable liquid and vapour.H318Causes serious eye damage.H315Causes skin irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains: Sodiumdicianoamide, 2-(2H-benzotriazol-2-il)-p-cresolo

May produce an allergic reaction.

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

rinsing.

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

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

2-METHOXY-1-METHYLETHYL ACETATE

AROMATIC HYDROCARBONS, C9

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

2-METHOXY-1-METHYLETHYL

ACETATE

INDEX 607-195-00-7 $18 \le x < 19,5$ Flam. Liq. 3 H226, STOT SE 3 H336

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

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 3/24

Replaced revision:4 (Dated: 03/03/2021)

REACH Reg. 01-2119475791-29-

CYCLOHEXANONE

INDEX 606-010-00-7 $12 \le x < 13,5$ Flam. Lig. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4

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

Flam. Liq. 3 H226, Eye Irrit. 2 H319

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

11 mg/l/4h

FC 203-631-1 CAS 108-94-1

REACH Reg. 01-2119453616-35-

4-HYDROXY-4-METHYLPENTAN-

2-ONE

INDEX 603-016-00-1 $12 \le x < 13,5$

EC 204-626-7

CAS 123-42-2 REACH Reg. 01-2119473975-

21xxxx

ALUMINIUM POWDER

(STABILIZED)

INDEX 013-002-00-1

 $10,5 \le x < 12$

Flam. Sol. 1 H228, Classification note according to Annex VI to the CLP

Regulation: T

EC 231-072-3 CAS 7429-90-5

REACH Reg. 01-2119529243-45

BUTYLGLYCOL ACETATE

INDEX 607-038-00-2

 $9 \le x < 10,5$

EC 203-933-3

LD50 Oral: 1880 mg/kg, LD50 Dermal: 1500 mg/kg, STA Inhalation vapours:

Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332

11 mg/l

CAS 112-07-2

REACH Reg. 01-2119475112-

47xxxx

Acrylate resin

INDEX $4 \le x < 4,5$

Eye Irrit. 2 H319, Skin Irrit. 2 H315

EC

CAS -

AROMATIC HYDROCARBONS, C9

INDEX -Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, $3.5 \le x < 4$

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-

NAPHTHA (PETROL.) HYDROTREATED HEAVY

INDEX 649-327-00-6 $2 \le x < 2.5$ Flam. Liq. 3 H226, Asp. Tox. 1 H304, Classification note according to Annex

VI to the CLP Regulation: P

EC 265-150-3 CAS 64742-48-9

REACH Reg. 01-2119463258-33-

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

INDEX - $0.5 \le x < 0.6$

EC 219-470-5 CAS 2440-22-4 Skin Sens. 1B H317, Aquatic Chronic 1 H410 M=1

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 4/24

Replaced revision:4 (Dated: 03/03/2021)

REACH Reg. 01-2119583811-34-

0000

Sodiumdicianoamide

INDEX - 0,25 ≤ x < 0,26 Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Sens. 1 H317

EC 217-703-5 LD50 Oral: 500 mg/kg

CAS 1934-75-4

REACH Reg. 01-2120103918-55

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

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).

COMEC ITALIA SRL Revision nr. 5 Dated 24/01/2023 PLT 22 METAL: B 79, 79-050, Printed on 26/01/2023 Page n. 5/24 Replaced revision:4 (Dated: 03/03/2021)

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 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:

ВGR 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.

PLT 22 METAL: B 79, 79-050,

Dated 24/01/2023

Printed on 26/01/2023

Page n. 6/24

Replaced revision:4 (Dated: 03/03/2021)

MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher

Arbeitsstoffe, Mitteilung 56

Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019

Límites de exposición profesional para agentes químicos en España 2021 Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS

Decreto Legislativo 9 Aprile 2008, n.81

Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit

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

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

Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006

Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS

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) 2019/130; 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.

ACGIH 2021

2-METHOXY-1-METHYLETHYL ACETATE

United Kingdom

Danmark

Nederland

Portugal

Polska

România

Sverige

Türkiye

OFL FU

TLV-ACGIH

España

France

Italia

DNK

ESP

FRA

NLD

PRT

POL

ROU

SWE

TUR

GBR

FU

ITA

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	3
		mg/m3	ppm	mg/m3	ppm		
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	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 conc	entration - PNEC						
Normal value in fresh wa	ater			0,635	m	ng/l	
Normal value in marine	water			0,0635	m	ng/l	
Normal value for fresh w	rater sediment			3,29	m	ıg/kg	
Normal value for marine	water sediment			0,329	m	ng/l	
Normal value for water, i	ntermittent release			6,35	m	ng/l	
Normal value of STP mid	croorganisms			100	m	ng/l	
Normal value for the terr	estrial compartment			0,29	m	ıg/kg	

Health - Derived no-effect level - DNEL / DMEL

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

VND

VND

40 mg/m3

4 mg/kg bw/d

Page n. 7/24

Replaced revision:4 (Dated: 03/03/2021)

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	1,67 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

Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks Observat	•	
		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		
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 concent	tration - PNEC							
Normal value in fresh water	,			0,1	mg	/I		
Normal value in marine wat	er			0,01	mg	/I		
Normal value for fresh water	er sediment			0,512	mg	/kg		
Normal value for marine wa	nter sediment			0,0512	mg	/kg		
Normal value for water, inte	ermittent release			0,329	mg	/I		
Normal value of STP micro	organisms			10	mg	/I		
Normal value for the terrest	rial compartment			0,0435	mg	/kg		
Health - Derived no-eff		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				1,5 mg/kg bw/d				

VND

VND

10 mg/m3

1 mg/kg bw/d

4-HYDROXY-4-METHYLPENTAN-2-ONE Threshold Limit Value

Inhalation

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 8/24

Replaced revision:4 (Dated: 03/03/2021)

Туре	Country	TWA/8h		STEL/15min		Remarks Observat		
		mg/m3	ppm	mg/m3	ppm			
TLV	CZE	200	41,4	300	62,1			
AGW	DEU	96	20	192	40	SKIN		
MAK	DEU	96	20	192	40	SKIN		
TLV	DNK	240	50					
VLA	ESP	241	50					
VLEP	FRA	240	50					
TGG	NLD	120				SKIN		
NDS/NDSCh	POL	240						
TLV	ROU	150	32	250	53			
NGV/KGV	SWE	120	25	240 (C)	50 (C)			
WEL	GBR	241	50	362	75			
TLV-ACGIH		238	50					
Predicted no-effect concentrate	tion - PNEC							
Normal value in fresh water				2	mç	g/l		
Normal value in marine water				0,2	mg	g/l		
Normal value for fresh water s	ediment			9,06	mg	g/kg		
Normal value for marine water	sediment			0,91	mg	g/kg		
Normal value for water, interm	ittent release			1	mg	g/l		
Normal value of STP microorg	janisms			82	mç	g/l		
Normal value for the terrestria	l compartment			0,63	mç	g/kg		
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				3,4 mg/kg				
Inhalation				11,8 mg/m3				66,4 mg/m3
Skin				3,4 mg/kg				9,4 mg/kg

Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	2					
MAK	DEU	4				INHAL	
MAK	DEU	1,5				RESP	
TLV	DNK	5					
TLV	DNK	2				RESP	
VLA	ESP	1				RESP	
VLEP	FRA	5					
NDS/NDSCh	POL	2,5				INHAL	
NGV/KGV	SWE	5					Som Al, Totaldamm
NGV/KGV	SWE	2				RESP	Som Al

Revision nr. 5 **COMEC ITALIA SRL** Dated 24/01/2023 Printed on 26/01/2023 PLT 22 METAL: B 79, 79-050, Page n. 9/24 Replaced revision:4 (Dated: 03/03/2021) WEL GBR 10 INHAL WFI RESP GBR 4 TI V-ACGIH 1 0.9 RESP ΑI Predicted no-effect concentration - PNEC Normal value in fresh water 0,0749 mg/l Normal value of STP microorganisms 20 mg/l Health - Derived no-effect level - DNEL / DMEL Effects on Effects on consumers workers Route of exposure Chronic local Chronic local Chronic Acute local Acute systemic Chronic Acute local Acute systemic systemic systemic Oral 3,95 mg/kg bw/d Inhalation 3,72 mg/m3 3,72 mg/m3 **BUTYLGLYCOL ACETATE Threshold Limit Value** Туре Country TWA/8h STEL/15min Remarks / Observations mg/m3 ppm mg/m3 ppm TLV BGR 133 20 333 50 SKIN 300 45 TI V C7F 130 19,5 SKIN AGW DEU 65 10 130 (C) 20 (C) SKIN 11 MAK DEU 66 10 132 SKIN Hinweis 20 TLV DNK 134 20 SKIN Ε ESP 20 333 50 SKIN VLA 133 VLEP FRA 66,5 10 333 50 VI FP ITA 333 SKIN 133 20 50 TGG NLD 135 333 SKIN VLE PRT 133 20 333 50 SKIN NDS/NDSCh POL 100 300 SKIN TLV ROU 133 333 SKIN 20 50 SWE NGV/KGV 70 10 333 50 SKIN ESD TUR 133 20 333 50 SKIN WEL GBR 133 20 332 50 SKIN OEL EU 133 20 333 50 SKIN 20 TLV-ACGIH 131 Predicted no-effect concentration - PNEC Normal value in fresh water 0,304 mg/l Normal value in marine water 0,03 mg/l Normal value for fresh water sediment 2,03 mg/l 0,203 Normal value for marine water sediment mg/l 0.56 Normal value for water, intermittent release mg/l Normal value of STP microorganisms 90 mg/l

Health - Derived no-effect level - DNEL / DMEL

Normal value for the food chain (secondary poisoning)

Normal value for the terrestrial compartment

Effects on consumers

Effects on workers

mg/kg

mg/kg/d

60

0,415

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 10/24

Replaced revision:4 (Dated: 03/03/2021)

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral	VND	36 mg/kg/d	VND	systemic 4,3 mg/kg/d		systemic		systemic
Inhalation	200 mg/m3	499 mg/m3	VND	80 mg/m3	333 mg/m3	773 mg/m3	VND	133 mg/m3
Skin	200 mg/mo	72 mg/kg bw/d	VND	102 mg/kg/d	102 mg/kg/d	27 mg/kg/d	VND	169 mg/kg/d
Vinyl resin								
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks /	ı	
туре	Country					Observation		
		mg/m3	ppm	mg/m3	ppm			
VLEP	ITA	10				RESP		
AROMATIC HYDROCAF	RBONS, C9							
Туре	Country	TWA/8h		STEL/15min		Remarks /		
		mg/m3	ppm	mg/m3	ppm	Observation	ons	
VLEP	ITA	100	20	g,	PP		1 2 3 trim	etilbenzene
OEL	EU	100	20					etilbenzene
	EU	100						
TLV-ACGIH			25				1,2,3 trim	etilbenzene
Health - Derived no-effe	ect level - DNEL / D 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	11 mg/kg		systemic		11 mg/kg bw/d
Inhalation			VND	32 mg/m3			VND	150 mg/m3
Skin			VND	11 mg/kg			VND	25 mg/kg
NAPHTHA (PETROL.) H	IVDROTREATED H	IFAVY						
	Country	TWA/8h		STEL/15min		Remarks /	l	
		TWA/8h	nnm		nnm	Remarks / Observation		
Туре	Country	TWA/8h mg/m3	ppm	mg/m3	ppm			
Туре	Country	TWA/8h mg/m3 300	ppm 50	mg/m3	ppm 100			
MAK NDS/NDSCh	DEU POL	TWA/8h mg/m3 300 300		mg/m3				
MAK NDS/NDSCh	DEU POL ect level - DNEL / D Effects on	TWA/8h mg/m3 300 300		mg/m3	100 Effects on			
Type MAK NDS/NDSCh Health - Derived no-eff e	DEU POL ect level - DNEL / D	TWA/8h mg/m3 300 300		mg/m3 600 900	100	Observation		Chronic
MAK NDS/NDSCh Health - Derived no-effe	DEU POL ect level - DNEL / E Effects on consumers	TWA/8h mg/m3 300 300 DMEL	50	mg/m3 600 900	100 Effects on workers	Observation	ons	Chronic systemic
Type MAK NDS/NDSCh Health - Derived no-effe	DEU POL ect level - DNEL / E Effects on consumers	TWA/8h mg/m3 300 300 DMEL	50 Chronic local	mg/m3 600 900 Chronic systemic	100 Effects on workers	Observation	ons	
MAK NDS/NDSCh Health - Derived no-effe	DEU POL ect level - DNEL / E Effects on consumers	TWA/8h mg/m3 300 300 DMEL	50 Chronic local VND	mg/m3 600 900 Chronic systemic 300 mg/kg	100 Effects on workers	Observation	ons	systemic
Threshold Limit Value Type MAK NDS/NDSCh Health - Derived no-effet Route of exposure Oral Inhalation Skin Soybean oil, epoxidized Health - Derived no-effet	DEU POL ect level - DNEL / E Effects on consumers Acute local	TWA/8h mg/m3 300 300 MEL Acute systemic	50 Chronic local VND VND	mg/m3 600 900 Chronic systemic 300 mg/kg 900 mg/m3	Effects on workers Acute local	Observation	Chronic local	systemic 1500 mg/m3
MAK NDS/NDSCh Health - Derived no-effet Route of exposure Oral Inhalation Skin Soybean oil, epoxidized Health - Derived no-effet	DEU POL Ect level - DNEL / DEFfects on consumers Acute local	TWA/8h mg/m3 300 300 9MEL Acute systemic	Chronic local VND VND VND	mg/m3 600 900 Chronic systemic 300 mg/kg 900 mg/m3	Effects on workers Acute local	Observation	Chronic local	systemic 1500 mg/m3
MAK NDS/NDSCh Health - Derived no-effet Route of exposure Oral Inhalation Skin Soybean oil, epoxidized Health - Derived no-effet Route of exposure	DEU POL ect level - DNEL / E Effects on consumers Acute local	TWA/8h mg/m3 300 300 MEL Acute systemic	50 Chronic local VND VND	mg/m3 600 900 Chronic systemic 300 mg/kg 900 mg/m3 300 mg/kg Chronic systemic	Effects on workers Acute local	Observation Observ	Chronic local VND	systemic 1500 mg/m3 300 mg/kg
MAK NDS/NDSCh Health - Derived no-effet Route of exposure Oral Inhalation Skin Soybean oil, epoxidized Health - Derived no-effet Route of exposure	DEU POL ect level - DNEL / E Effects on consumers Acute local	TWA/8h mg/m3 300 300 300 MEL Acute systemic	Chronic local VND VND VND	mg/m3 600 900 Chronic systemic 300 mg/kg 900 mg/m3 300 mg/kg Chronic systemic 0,8 mg/kg/d	Effects on workers Acute local	Acute systemic Acute systemic	Chronic local VND	systemic 1500 mg/m3 300 mg/kg Chronic systemic
MAK NDS/NDSCh Health - Derived no-effet Route of exposure Oral Inhalation Skin Soybean oil, epoxidized Health - Derived no-effet Route of exposure	DEU POL ect level - DNEL / E Effects on consumers Acute local	TWA/8h mg/m3 300 300 MEL Acute systemic	Chronic local VND VND VND	mg/m3 600 900 Chronic systemic 300 mg/kg 900 mg/m3 300 mg/kg Chronic systemic	Effects on workers Acute local	Acute systemic Acute	Chronic local VND	systemic 1500 mg/m3 300 mg/kg Chronic

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 11/24

Replaced revision:4 (Dated: 03/03/2021)

2-((2H-I	benzo	triazo	I-2-iI)·	-p-cre	solo
-----	-------	-------	--------	----------	--------	------

Predicted no-effect concentration - PNEC			
Normal value in fresh water	0,00026	mg/l	
Normal value in marine water	0,000026	mg/l	
Normal value for fresh water sediment	0,136	mg/kg	
Normal value for marine water sediment	0,0136	mg/kg	
Normal value for water, intermittent release	1	mg/l	
Normal value of STP microorganisms	1	mg/l	
Normal value for the terrestrial compartment	11	mg/kg	

Health - Derived no-effect level - DNEL / DMEL

Houlds Delived no ci	ICCC ICVCI DIVEL / L	/ IVI - -						
	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			VND	1,2 mg/kg				
Inhalation							VND	1 mg/m3
Skin			VND	1,2 mg/kg			VND	2,5 mg/kg

HYDROM HYDROPHONE SILICATE

Threshold Limit Value						
Type Country		TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	4				INHAL
MAK	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.

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.

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 12/24

Replaced revision:4 (Dated: 03/03/2021)

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	silver	
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	
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

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 13/24

Replaced revision:4 (Dated: 03/03/2021)

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 60,07 % VOC (volatile carbon) 38,52 %

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.

4-HYDROXY-4-METHYLPENTAN-2-ONE

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

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.

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.

10.4. Conditions to avoid

COMEC ITALIA SRL Revision nr. 5 Dated 24/01/2023 PIT 22 METAL: B 79, 79-050, Printed on 26/01/2023 Page n. 14/24 Replaced revision:4 (Dated: 03/03/2021)

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.

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

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

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

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

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 15/24

Replaced revision:4 (Dated: 03/03/2021)

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).

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.

Interactive effects

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

2-METHOXY-1-METHYLETHYL ACETATE

LD50 (Dermal): > 5000 mg/kg Coniglio / Rabbit LD50 (Oral): 8500 mg/kg Ratto / Rat LC50 (Inhalation vapours): 4345 ppm/6h 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

ALUMINIUM POWDER (STABILIZED)

LC50 (Inhalation mists/powders): > 5 mg/l Ratto / Rat (4h)

BUTYLGLYCOL ACETATE

LD50 (Dermal): 1500 mg/kg Coniglio / Rabbit LD50 (Oral): 1880 mg/kg Ratto / Rat LC50 (Inhalation vapours): 0,4 mg/l/4h Ratto - Rat

STA (Inhalation vapours): 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)

AROMATIC HYDROCARBONS, C9

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 16/24

Replaced revision:4 (Dated: 03/03/2021)

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

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

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

NAPHTHA (PETROL.) HYDROTREATED HEAVY

 LD50 (Dermal):
 > 2000 mg/kg Rabbit

 LD50 (Oral):
 > 5000 mg/kg Rat

Soybean oil, epoxidized

 LD50 (Dermal):
 > 20 ml/kg Coniglio / Rabbit

 LD50 (Oral):
 > 5000 mg/kg Ratto / Rat

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

LD50 (Dermal): > 2000 mg/kg ratto (OECD - linea guida 402) Analogismo: valutazione derivante da prodotti chimicamente simili.

LD50 (Oral): > 10000 mg/kg (OECD-Linea guida 423)

LC50 (Inhalation mists/powders): > 0,59 mg/l 4 h ratto (OCSE - linea guida 403) concentrazione a piu' alta

testabilita'

Sodiumdicianoamide

LD50 (Oral): 500 mg/kg Ratto

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

Sodiumdicianoamide

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

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 17/24

Replaced revision:4 (Dated: 03/03/2021)

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

May cause drowsiness or dizziness

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

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**

Soybean oil, epoxidized

LC50 - for Fish 900 mg/l/48h 48h - Leuciscus idus melanotus

EC50 - for Crustacea > 100 mg/l/24h 24h - Daphnia magna
EC50 - for Algae / Aquatic Plants 8 mg/l/72h Scenedsmus subspicatus

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

2-METHOXY-1-METHYLETHYL ACETATE

PLT 22 METAL: B 79, 79-050,

Dated 24/01/2023

Printed on 26/01/2023

Page n. 18/24

Replaced revision:4 (Dated: 03/03/2021)

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

Chronic NOEC for Fish Chronic NOEC for Crustacea 134 mg/l/96h Pesce, Oncorhynchus mykiss OECD 203

> 500 mg/l/48h Daphnia magna

> 1000 mg/l/72h Selenastrum capricornutum OECD 201

47,5 mg/l Oryzias latipes 14 gg OECD 204

100 mg/l Dapnia magna 21 gg OECD 202

4-HYDROXY-4-METHYLPENTAN-2-ONE

LC50 - for Fish EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

> 100 mg/l/96h Oryzias latipes > 1000 mg/l/48h Daphnia magna

< 1000 mg/l/72h Pseudokirchneriella subcapitata

527 mg/l/96h 527 - 732 / Pimephales promelas

CYCLOHEXANONE

LC50 - for Fish

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 EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

> 20 mg/l/96h Fish 20-40 mg/kg (48h)

145 mg/l/24h Daphnia Magna (24h)

1570 mg/l/72h Scenedesmus subspicatus

NAPHTHA (PETROL.) HYDROTREATED

HEAVY

LC50 - for Fish EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

> 1000 mg/l/96h Oncorhynchus mykiss

> 1000 mg/l/48h Daphnia magna

> 1000 mg/l/72h Pseudokirchnerella subcapitata

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

LC50 - for Fish

EC50 - for Crustacea

EC50 - for Algae / Aquatic Plants

Chronic NOEC for Crustacea

> 0,17 mg/l/96h Oncorhynchus mykiss (OECD - linea guida 203, semistatico)

> 1000 mg/l/48h CE50 (24 h), Daphnia magna (OECD - linea guida 202, parte

> 100 mg/l/72h Desmodesmus subspicatus

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. AROMÁTIC HYDROCARBONS, C9

Rapidly degradable

ALUMINIUM POWDER (STABILIZED)

Solubility in water Degradability: information not available 0 mg/l

2-METHOXY-1-METHYLETHYL ACETATE

Solubility in water

Rapidly degradable OECD GI 301F 83% 10 d > 10000 mg/l

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 19/24

Replaced revision:4 (Dated: 03/03/2021)

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

BUTYLGLÝCOL ACETATE

Solubility in water 15000 mg/l

Rapidly degradable

NAPHTHA (PETROL.) HYDROTREATED

HEAVY

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).

2-METHOXY-1-METHYLETHYL ACETATE

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

4-HYDROXY-4-METHYLPENTAN-2-ONE

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

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

CYCLOHEXANONE

Partition coefficient: soil/water 1,18

NAPHTHA (PETROL.) HYDROTREATED

HEAVY

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 20/24

Replaced revision:4 (Dated: 03/03/2021)

Partition coefficient: soil/water 1,78

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 ≥ 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

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



PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 21/24

Replaced revision:4 (Dated: 03/03/2021)

IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA: Ш

14.5. Environmental hazards

ADR / RID: NO NO IMDG: IATA: NO

14.6. Special precautions for user

ADR / RID: HIN - Kemler: 30 Limited

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

366

355

Special provision: -

Special provision:

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

IATA: Cargo: Maximum

Packaging instructions: quantity: 220

A192

Pass.: Maximum Packaging quantity: 60 L instructions:

A3, A72,

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

PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 22/24

Replaced revision:4 (Dated: 03/03/2021)

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

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
Flam. Sol. 1 Flammable solid, category 1
Acute Tox. 4 Acute toxicity, category 4
Asp. Tox. 1 Aspiration hazard, category 1
Eye Dam. 1 Serious eye damage, category 1

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Skin Sens. 1 Skin sensitization, category 1
Skin Sens. 1B Skin sensitization, category 1B

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

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.

PLT 22 METAL: B 79, 79-050,

Dated 24/01/2023

Printed on 26/01/2023

Page n. 23/24

Replaced revision:4 (Dated: 03/03/2021)

H228 Flammable solid. H302 Harmful if swallowed. H312 Harmful in contact with skin.

H332 Harmful if inhaled

H304 May be fatal if swallowed and enters airways.

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

H315 Causes skin irritation.

H335 May cause respiratory irritation. H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

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

COMEC ITALIA SRL PLT 22 METAL: B 79, 79-050,

Revision nr. 5

Dated 24/01/2023

Printed on 26/01/2023

Page n. 24/24

Replaced revision:4 (Dated: 03/03/2021)

- 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)
- 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)
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- 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 quarantee 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:

01 / 02 / 03 / 04 / 08 / 09 / 11 / 12 / 15 / 16.