



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 1 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 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

Product name **U-Seal 500 PL**

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use **One-component elastic sealant suitable for various types of use.**

Identified Uses	Industrial	Professional	Consumer
APPLICATIONS OF SEALANTS AND ADHESIVES	✓	✓	✓
SEALANTS AND ADHESIVES FORMULATIONS IN INDUSTRY	✓	-	-
CHEMICAL SUBSTANCE USE IN LABORATORY, INDUSTRIAL	✓	-	-

1.3. Details of the supplier of the safety data sheet

Name **N.P.T. S.R.L. A SOCIO UNICO**
Full address **via Guido Rossa 2**
District and Country **40053 Valsamoggia - Loc. Crespellano (BO) Italia**
Tel. **+39 051 969109**
Fax **+39 051 969837**

e-mail address of the competent person responsible for the Safety Data Sheet **infoSDS@nptsrl.com**

1.4. Emergency telephone number

For urgent inquiries refer to **Laboratories and manufactory plant - Villanova d'Ardenghi (PV)
+39 0382 400140 (available from Monday to Friday, only in the following office hours:
8.30-12.30, 13.30-17.00).**

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:
Respiratory sensitization, category 1 **H334** **May cause allergy or asthma symptoms or breathing difficulties if inhaled.**

2.2. Label elements

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

Hazard pictograms:



Signal words: **Danger**

Hazard statements:



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 2 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

SECTION 2. Hazards identification ... / >>

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
EUH204 Contains isocyanates. May produce an allergic reaction.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: call a POISON CENTER / doctor / . . .
P501 Dispose of contents / container according to local regulation.

Contains: DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.
DIPHENYLMETHANE-4,4'-DIISOCYANATE
TRIS(NONYLPHENYL)PHOSPHITE

As from 24 August 2023 adequate training is required before industrial or professional use.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gasfilter (i.e. type A1 according to standard EN 14387) is used

2.3. Other hazards

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

The product contains substances with endocrine disrupting properties in concentration \geq 0,1%:
TRIS(NONYLPHENYL)PHOSPHITE

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
DIISONONYL PHTHALATE		
INDEX	$7 \leq x < 8$	
EC	249-079-5	
CAS	28553-12-0	
REACH Reg.	01-2119430798-28	
XYLENE (*)		
INDEX	$5 \leq x < 6$	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3 H412, Classification note according to Annex VI to the CLP Regulation: C
EC	215-535-7	STA Dermal: 1100 mg/kg, STA Inhalation vapours: 11 mg/l
CAS	1330-20-7	
REACH Reg.	01-2119488216-32-XXXX	
TITANIUM DIOXIDE		
INDEX	$4,5 \leq x < 5$	
EC	236-675-5	
CAS	13463-67-7	
REACH Reg.	01-2119489379-17-0021	
ETHYL ACETATE		
INDEX	$1 \leq x < 1,5$	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066
EC	205-500-4	
CAS	141-78-6	
REACH Reg.	01-2119475103-46	
DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.		
INDEX	$0,89 \leq x < 1$	Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317
EC	618-498-9	Skin Irrit. 2 H315: \geq 5%, Eye Irrit. 2 H319: \geq 5%, Resp. Sens. 1 H334: \geq 0,1%, STOT SE 3 H335: \geq 5%
CAS	9016-87-9	LC50 Inhalation mists/powders: 1,5 mg/l/4h



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 3 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

SECTION 3. Composition/information on ingredients ... / >>

REACH Reg. No applicabile.

BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE

INDEX $0,3 \leq x < 0,35$

Repr. 2 H361f, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

EC 258-207-9

CAS 52829-07-9

REACH Reg. 01-2119537297-32-XXXX

DIPHENYLMETHANE-4,4'-DIISOCYANATE

INDEX 615-005-00-9 $0,25 \leq x < 0,3$

Carc. 2 H351, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: 2, C Skin Irrit. 2 H315: $\geq 5\%$, Eye Irrit. 2 H319: $\geq 5\%$, Resp. Sens. 1 H334: $\geq 0,1\%$, STOT SE 3 H335: $\geq 5\%$
LC50 Inhalation mists/powders: 1,5 mg/l/4h

EC 202-966-0

CAS 101-68-8

REACH Reg. 01-2119457014-47

TRIS(NONYLPHENYL)PHOSPHITE

INDEX $0,15 \leq x < 0,2$

Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 247-759-6

CAS 26523-78-4

REACH Reg. 01-2119520601-54-XXXX

2,2 - DIMORPHOLINODIETHYL ETHER

INDEX $0,15 \leq x < 0,2$

Eye Irrit. 2 H319

EC 229-194-7

CAS 6425-39-4

REACH Reg. 01-2119969278-20-xxxx

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

(* UVCB substance, for which the following product identifiers are also valid: REACTION MASS OF ETHYLBENZENE AND XYLENE (CE number 905-588-0; REACH number 01-2119486136-34/01-2119488216-32); REACTION MASS OF ETHYLBENZENE AND m-XYLENE AND p-XYLENE (CE number 905-562-9; REACH number 01-2119488216-32/01-2119555267-33)

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. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 4 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a 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.

Storage class TRGS 510 (Germany): 10

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



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 5 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

SECTION 8. Exposure controls/personal protection ... / >>

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
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25
GRC	Ελλάδα	Π.Δ. 26/2020 (ΦΕΚ 50/Α` 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ "σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιογόνους παράγοντες κατά την εργασία"»
HUN	Magyarország	Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről
HRV	Hrvatska	Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
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
ROU	România	Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006
SWE	Sverige	Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)
SVK	Slovensko	NARIADENIE VLÁDY Slovenskej republiky z 12. augusta 2020, ktorým sa mení a dopĺňa nariadenie vlády Slovenskej republiky č. 356/2006 Z. z. o ochrane zdravia zamestnancov pred rizikami súvisiacimi s expozíciou karcinogénnym a mutagénnym faktorom pri práci v znení neskorších predpisov
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2022

2,2 - DIMORPHOLINODIETHYL ETHER

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,1	mg/l
Normal value in marine water	0,01	mg/l
Normal value for fresh water sediment	8,2	mg/kg
Normal value for marine water sediment	0,82	mg/kg
Normal value for water, intermittent release	1	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	1,58	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local systemic	Chronic local	Chronic systemic
Oral			VND	0,5 mg/kg/d			
Inhalation			VND	1,8 mg/m3		VND	7,28 mg/m3
Skin			VND	0,5 mg/kg/d		VND	1 mg/kg/d

DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	Remarks / Observations
		mg/m3	ppm	
		mg/m3	ppm	
TLV-ACGIH			0,005	



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 6 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

SECTION 8. Exposure controls/personal protection ... / >>

CARBON BLACK.

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	2				
MAK	DEU	4				INHAL
MAK	DEU	1,5				RESP
VLA	ESP	3,5				
VLEP	FRA	3,5				INHAL
HTP	FIN	3,5		7		
VLEP	ITA	3				INHAL
TLV	NOR	3,5				
NGV/KGV	SWE	3				
WEL	GBR	3,5		7		INHAL

DIPHENYLMETHANE-4,4'-DIISOCYANATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	0,05		0,1		
AGW	DEU	0,05		0,05		
MAK	DEU	0,05		0,05		INHAL
MAK	DEU	0,05		0,05		SKIN
TLV	DNK	0,05	0,005	0,1	0,01	
VLA	ESP	0,052	0,005			
VLEP	FRA	0,1	0,01	0,2	0,02	
TLV	GRC	0,2		0,2		
AK	HUN	0,05		0,05		
TLV	NOR	0,05	0,005			
NDS/NDSCh	POL	0,05		0,2		
NGV/KGV	SWE	0,03	0,002	0,05 (C)	0,005 (C)	
NPEL	SVK	0,05		0,05		
TLV-ACGIH		0,051	0,005			

Predicted no-effect concentration - PNEC

Normal value in fresh water	1	mg/l
Normal value in marine water	0,1	mg/l
Normal value for water, intermittent release	10	mg/l
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	1	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic		Effects on workers			
	Acute local	Acute systemic	local	systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation	0,05	0,05	0,025	0,025	0,1		0,05	
	mg/m3		mg/m3		mg/m3		mg/m3	

BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,005	mg/l
Normal value in marine water	0,0005	mg/l
Normal value for fresh water sediment	8,02	mg/kg
Normal value for marine water sediment	0,802	mg/kg
Normal value of STP microorganisms	1	mg/l
Normal value for the terrestrial compartment	1,6	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic		Effects on workers			
	Acute local	Acute systemic	local	systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	1	VND	1				
		mg/kg		mg/kg				
Inhalation	VND	1,4	VND	1,4	VND	5,6	VND	5,6
		mg/m3		mg/m3		mg/m3		mg/m3
Skin	VND	1	VND	1	VND	2	VND	2
		mg/kg		mg/kg		mg/kg		mg/kg



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 7 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

SECTION 8. Exposure controls/personal protection ... / >>

TITANIUM DIOXIDE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	10				RESP
TLV	DNK	6				Som Ti
VLA	ESP	10				
VLEP	FRA	10				
TLV	GRC		10			
GVI/KGVI	HRV	10				INHAL
GVI/KGVI	HRV	4				RESP
TLV	NOR	5				
NDS/NDSch	POL	10				INHAL
TLV	ROU	10		15		
NGV/KGV	SWE	5				Totaldamm
NPEL	SVK	5				
WEL	GBR	10				INHAL
WEL	GBR	4				RESP
TLV-ACGIH		2,5				RESP

DIISONONYL PHTHALATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	CZE	3	0,171	10	0,57	
TLV	DNK	3				
GVI/KGVI	HRV	5				
NGV/KGV	SWE	3		5 (C)		
WEL	GBR	5				



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
 Dated 27/09/2023
 Printed on 27/09/2023
 Page n. 8 / 17
 Replaced revision:7 (Dated 16/02/2022)

EN

SECTION 8. Exposure controls/personal protection ... / >>

ETHYL ACETATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	734	200	1468	400	
TLV	CZE	700	191,1	900	245,7	
AGW	DEU	730	200	1460	400	
MAK	DEU	750	200	1500	400	
TLV	DNK	540	150			E
VLA	ESP	734	200	1468	400	
VLEP	FRA	734	200	1468	400	
HTP	FIN	730	200	1470	400	
TLV	GRC	734	200	1468	400	
AK	HUN	734		1468		
GVI/KGVI	HRV	734	200	1468	400	
VLEP	ITA	734	200	1468	400	
TLV	NOR	734	200			
TGG	NLD	734		1468		
VLE	PRT	734	200	1468	400	
NDS/NDSCh	POL	734		1468		
TLV	ROU	734	200	1468	400	
NGV/KGV	SWE	550	150	1100	300	
NPEL	SVK	734	200	1468	400	
MV	SVN	734	200	1468	400	
WEL	GBR	734	200	1468	400	
OEL	EU	734	200	1468	400	
TLV-ACGIH		1441	400			

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,26	mg/l
Normal value in marine water	0,026	mg/l
Normal value for fresh water sediment	1,25	mg/kg
Normal value for marine water sediment	0,125	mg/kg
Normal value for water, intermittent release	1,65	mg/l
Normal value of STP microorganisms	650	mg/l
Normal value for the terrestrial compartment	0,24	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	4,5 mg/kg				
Inhalation	734 mg/m3	734 mg/m3	367 mg/m3	367 mg/m3	1468 mg/m3	1468 mg/m3	734 mg/m3	734 mg/m3
Skin			VND	37 mg/kg			VND	63 mg/kg



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 9 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

SECTION 8. Exposure controls/personal protection ... / >>

XYLENE (*)

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV	BGR	221		442		SKIN
TLV	CZE	200		400		SKIN
AGW	DEU	440	100	880	200	SKIN
MAK	DEU	440	100	880	200	SKIN
VLA	ESP	221	50	442	100	SKIN
VLEP	FRA	221	50	442	100	SKIN
HTP	FIN	220	50	440	100	SKIN
TLV	GRC	435	100	650	150	
AK	HUN	221		442		SKIN
GVI/KGVI	HRV	221	50	442	100	SKIN
VLEP	ITA	221	50	442	100	SKIN
TLV	NOR	108	25			SKIN
TGG	NLD	210		442		SKIN
NDS/NDSch	POL	100				
NGV/KGV	SWE	221	50	442	100	SKIN
NPEL	SVK	221	50	442		SKIN
MV	SVN	221	50			SKIN
WEL	GBR	220	50	441	100	
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,32	mg/l
Normal value in marine water	0,32	mg/l
Normal value for fresh water sediment	12,46	mg/kg
Normal value for marine water sediment	12,46	mg/kg
Normal value for water, intermittent release	0,32	mg/l
Normal value of STP microorganisms	6,58	mg/l
Normal value for the terrestrial compartment	2,31	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				12,5 mg/kg/d				
Inhalation				65,3 mg/m3	442 mg/kg			221 mg/m3
Skin				125 mg/kg/d		212 mg/kg/d		

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; 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.

HAND PROTECTION

Protect your hands with work gloves, category III (ref. standard EN 374). For the final choice of material you need to assess the type of use. In case of contact for the short term or as protection against splashes, use gloves made of nitrile (0.3mm thickness, permeation time >480 min.). In the event of continued exposure use butyl rubber gloves (0.4mm thickness, permeation time > 480 min.). Contaminated gloves should be removed.

SKIN PROTECTION

Wear category I 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.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

In case of exceeding the threshold value (eg, TLV-TWA) of the substance or one or more of the substances present in the product, it is advisable to wear a mask with filter type A for organic vapors, the class (1, 2 or 3) must be chosen according to the limit concentration of use (1000, 5000 or 10000 ppm) (ref. standard EN 14387).

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 10 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	paste	
Colour	various	
Odour	typical	
Melting point / freezing point	not applicable	Reason for missing data:Determination is not technically possible.
Initial boiling point	not applicable	Reason for missing data:Determination is not technically possible.
Boiling range	not applicable	Reason for missing data:Determination is not technically possible.
Flammability	not flammable	Method:A10 regulation EC 440/2008
Lower explosive limit	not applicable	
Upper explosive limit	not applicable	
Flash point	not applicable	
Auto-ignition temperature	not available	
Decomposition temperature	not applicable	
pH	not applicable	Reason for missing data:Insoluble in water.
Kinematic viscosity	not available	
Dynamic viscosity	60000 - 135000 cps	Method:UNI EN ISO 3219 - Rotational viscometer
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure	not available	
Density and/or relative density	1,30 - 1,35	Method:ISO 1183-1 A
Relative vapour density	not applicable	
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

Evaporation rate	not applicable
VOC (Directive 2010/75/EU)	6,97 %

SECTION 10. Stability and reactivity

10.1. Reactivity

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

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

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.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals,hydrides,oleum.May react violently with: fluorine,strong oxidising agents,chlorosulphuric acid,potassium tert-butoxide.Forms explosive mixtures with: air.



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 11 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

SECTION 10. Stability and reactivity ... / >>

10.4. Conditions to avoid

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

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

10.5. Incompatible materials

ETHYL ACETATE

Incompatible with: acids, bases, strong oxidants, chlorosulphuric acid.

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

Information not available

Information on likely routes of exposure

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	>2000 mg/kg

2,2 - DIMORPHOLINODIETHYL ETHER

LD50 (Dermal):	3038 mg/kg <i>Oryctolagus</i> sp.
LD50 (Oral):	2025 mg/kg <i>Rattus</i> sp.

TRIS(NONYLPHENYL)PHOSPHITE

LD50 (Dermal):	> 2000 mg/kg <i>Oryctolagus</i> sp.
LD50 (Oral):	> 15000 mg/kg <i>Rattus</i> sp.

DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

LD50 (Dermal):	> 9400 mg/kg <i>Oryctolagus</i> sp.
LD50 (Oral):	> 10000 mg/kg <i>Rattus</i> sp.
LC50 (Inhalation mists/powders):	1,5 mg/l/4h <i>Rattus</i> sp.

DIPHENYLMETHANE-4,4'-DIISOCYANATE

LD50 (Dermal):	> 9400 mg/kg <i>Oryctolagus</i> sp.
LD50 (Oral):	> 2000 mg/kg <i>Rattus</i> sp.
LC50 (Inhalation mists/powders):	1,5 mg/l/4h <i>Rattus</i> sp.

BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE

LD50 (Dermal):	> 3170 mg/kg <i>Rattus</i> sp.
LD50 (Oral):	3700 mg/kg <i>Rattus</i> sp.
LC50 (Inhalation mists/powders):	0,5 mg/l <i>Rattus</i> sp.



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 12 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

SECTION 11. Toxicological information ... / >>

TITANIUM DIOXIDE LD50 (Oral):	> 10000 mg/kg Rat
DIISONONYL PHTHALATE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	> 3160 mg/kg Rabbit - New Zeland white > 10000 mg/kg Rat - Sprague-Dawley > 4,4 mg/l/4h Rat - Sprague-Dawley
ETHYL ACETATE LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	> 20000 mg/kg Oryctolagus sp. 5620 mg/kg Rattus sp. 1600 mg/kg Oryctolagus sp.
XYLENE (*) LD50 (Dermal): STA (Dermal):	> 5000 mg/kg Oryctolagus sp. 1100 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)
LD50 (Oral): LC50 (Inhalation vapours): STA (Inhalation vapours):	5627 mg/kg Mus sp. 6700 ppm/4h Rattus sp. 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)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the respiratory system

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

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

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

SECTION 12. Ecological information

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

12.1. Toxicity



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 13 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

SECTION 12. Ecological information ... / >>

2,2 - DIMORPHOLINODIETHYL ETHER	
LC50 - for Fish	> 2150 mg/l/96h
EC50 - for Crustacea	> 100 mg/l/48h Daphnia sp.
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	100 mg/l
TRIS(NONYLPHENYL)PHOSPHITE	
LC50 - for Fish	7,1 mg/l/96h Danio rerio
DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.	
LC50 - for Fish	> 1000 mg/l/96h Danio rerio
EC50 - for Algae / Aquatic Plants	> 1640 mg/l/72h Scenedesmus subspicatus
Chronic NOEC for Crustacea	> 10 mg/l Daphnia magna
DIPHENYLMETHANE-4,4'-DIISOCYANATE	
LC50 - for Fish	> 1000 mg/l/96h Danio rerio
EC50 - for Algae / Aquatic Plants	> 1640 mg/l/72h Scenedesmus subspicatus
Chronic NOEC for Crustacea	> 10 mg/l Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	1640 mg/l Desmodesmus subspicatus
BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE	
LC50 - for Fish	4,4 mg/l/96h Brachydanio rerio
EC50 - for Crustacea	0,57 mg/l/48h Daphnia sp.
EC50 - for Algae / Aquatic Plants	1,9 mg/l/72h Scenedesmus subspicatus
DIISONONYL PHTHALATE	
LC50 - for Fish	> 102 mg/l/96h Danio rerio
EC50 - for Crustacea	> 74 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 88 mg/l/72h Scenedesmus subspicatus
ETHYL ACETATE	
LC50 - for Fish	> 212 mg/l/96h
EC50 - for Crustacea	260 mg/l/48h Daphnia pulex
XYLENE (*)	
LC50 - for Fish	2,6 mg/l/96h Oncorhynchus mykiss
EC50 - for Algae / Aquatic Plants	4,36 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Fish	> 1,3 mg/l Oncorhynchus mykiss
Chronic NOEC for Crustacea	1,57 mg/l Daphnia magna

12.2. Persistence and degradability

2,2 - DIMORPHOLINODIETHYL ETHER
NOT rapidly degradable

TRIS(NONYLPHENYL)PHOSPHITE
NOT rapidly degradable

DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.
NOT rapidly degradable

BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE
NOT rapidly degradable

TITANIUM DIOXIDE
Solubility in water < 0,001 mg/l
Degradability: information not available

DIISONONYL PHTHALATE
Solubility in water < 0,1 mg/l
Rapidly degradable

ETHYL ACETATE
Solubility in water > 10000 mg/l
Rapidly degradable



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 14 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

SECTION 12. Ecological information ... / >>

XYLENE (*)
Rapidly degradable

12.3. Bioaccumulative potential

DIISONONYL PHTHALATE
Partition coefficient: n-octanol/water 8,8
BCF > 3

ETHYL ACETATE
Partition coefficient: n-octanol/water 0,68
BCF 30

12.4. Mobility in soil

DIISONONYL PHTHALATE
Partition coefficient: soil/water 6

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

Based on the available data, the product contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on the environment and on animal species causing adverse effects on the exposed organisms or on their progeny:

TRIS(NONYLPHENYL)PHOSPHITE

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.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

not applicable



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 15 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

SECTION 14. Transport information ... / >>

14.6. Special precautions for user

not applicable

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: None

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	
Point	56	DIPHENYLMETHANE-4,4'-DIISOCYANATE REACH Reg.: 01-2119457014-47
Point	52	DIISONONYL PHTHALATE REACH Reg.: 01-2119430798-28
Point	74	DIISOCYANATES

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors
not applicable

Substances in Candidate List (Art. 59 REACH)

TRIS(NONYLPHENYL)PHOSPHITE
REACH Reg.: 01-2119520601-54-XXXX

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.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 2: Hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

TRIS(NONYLPHENYL)PHOSPHITE
DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.
DIPHENYLMETHANE-4,4'-DIISOCYANATE
BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDYL)SEBACATE
ETHYL ACETATE
XYLENE (*)

SECTION 16. Other information

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

Flam. Liq. 2	Flammable liquid, category 2
Flam. Liq. 3	Flammable liquid, category 3
Carc. 2	Carcinogenicity, category 2
Repr. 2	Reproductive toxicity, category 2



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 16 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

SECTION 16. Other information ... / >>

Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1	Skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H351	Suspected of causing cancer.
H361f	Suspected of damaging fertility.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
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.
H400	Very toxic to aquatic life.
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.
EUH204	Contains isocyanates. May produce an allergic reaction.

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



N.P.T. S.R.L. A SOCIO UNICO

U-Seal 500 PL

Revision nr.8
Dated 27/09/2023
Printed on 27/09/2023
Page n. 17 / 17
Replaced revision:7 (Dated 16/02/2022)

EN

SECTION 16. Other information ... / >>

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 (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)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

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

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

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

Changes to previous review:

The following sections were modified:

02 / 03 / 08 / 10 / 11 / 12 / 15.