

U-Seal 500

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 1 / 15

Replaced revision:7 (Dated 27/09/2018)

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Product name U-Seal 500

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.

Industrial **Professional** Consumer **Identified Uses** SEALANTS AND ADHESIVES FORMULATIONS **IN INDUSTRY** SU: 10. ERC: 2. PROC: 3, 4, 5, 8a, 8b, 9. PC: 1. INDUSTRIAL APPLICATIONS OF SEALANTS SU: 17, 19. **AND ADHESIVES** SU: 17, 19. ERC: 5, 8b. ERC: 5, 8b. PROC: 10, 8a, 8b. PROC: 10, 8a, 8b. PC: 1. PC: 1. **CHEMICAL SUBSTANCE USE IN** PROC: 15. LABORATORY, INDUSTRIAL PC: 1, 21.

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)

Italy

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 (avaiable 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 2015/830. 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.



U-Seal 500

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 2 / 15

Replaced revision:7 (Dated 27/09/2018)

SECTION 2. Hazards identification .../>>

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:

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

EUH204 Contains isocyanates. May produce an allergic reaction.

Precautionary statements:

P342+P311 If experiencing respiratory symptoms: call a POISON CENTER / doctor / . . . P304+P340 IF INHALED: remove person to fresh air and keep comfortable for breathing.

P284 [In case of inadequate ventilation] wear respiratory protection.

Contains: DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

TRIS(NONYLPHENYL)PHOSPHITE

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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

REACTIVE MIXTURE OF ETHYLBENZENE, m-XYLENE AND p-XYLENE

CAS 0 ≤ x < 5,7 Flam. Liq. 2 H225, 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

EC 905-562-9

INDEX

Reg. no. 01-2119555267-33 XYLENE (BENZENE <0.01%)

CAS 1330-20-7 0 ≤ x < 5,7 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, Classification note according to Annex VI to the CLP Regulation: C

EC 215-535-7 INDEX 601-022-00-9

Reg. no. 01-2119488216-32-XXXX

ETHYL ACETATE

CAS 141-78-6 1 ≤ x < 1,5 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 205-500-4 INDEX 607-022-00-5 Rea. no. 01-2119475103-46

DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

CAS 9016-87-9 0,89 ≤ 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 INDEX

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

CAS 52829-07-9 0,3 ≤ x < 0,35 Eye Dam. 1 H318, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

EC 258-207-9

INDEX

Reg. no. 01-2119537297-32-XXXX



U-Seal 500

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 3 / 15

Replaced revision:7 (Dated 27/09/2018)

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

DIPHENYLMETHANE-4,4'-DIISOCYANATE

CAS 101-68-8 0,25 ≤ 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

EC 202-966-0 INDEX 615-005-00-9

Reg. no. 01-2119457014-47-XXXX
TRIS(NONYLPHENYL)PHOSPHITE

CAS 26523-78-4 $0.2 \le x < 0.25$

EC 247-759-6

INDEX

Reg. no. 01-2119520601-54-XXXX

Skin Sens. 1 H317, Aquatic Chronic 2 H411

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

The two substances with no. REACH: 01-2119555267-33 and Nr. REACH: 01-2119488216-32 constitute a mixture in variable proportions and then the maximum percentage to be considered in the finished product is equal to the maximum considered for only one of them. They having the same classification, each combination does not involve changes in the final classification of the mixture.

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

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).



U-Seal 500

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 4 / 15

Replaced revision:7 (Dated 27/09/2018)

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. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. 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 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:

CZE	Česká Republika	Nařízení vlády č. 246/2018 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	TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und
		Kurzzeitwerte
ESP	España	LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019
	'	(INSST)
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition published 2018)
GRC	Ελλάδα	ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018
HRV	Hrvatska	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima
		izloženosti i biološkim graničnim vrijednostima (NN 91/18)
ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
NLD	Nederland	Regeling van de Staatssecretaris van Sociale Zaken en Werkgelegenheid van 13 juli 2018.
NLD	inederiand	
		2018-0000118517 tot wijziging van de Arbeidsomstandighedenregeling in verband met de
		implementatie van Richtlijn 2017/164 in Bijlage XIII



U-Seal 500

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 5 / 15

Replaced revision:7 (Dated 27/09/2018)

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

POL Polska ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca

2018 r

PRT Portugal Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção

dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes

químicos no trabalho - Diário da República, 1.ª série - N.º 111 - 11 de junho de 2018

SVN Slovenija Uradni list Republike Slovenije 04.12.2018 - Uradnem listu RS št. 78 -PRAVILNIK o varovanju

delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu

SWE Sverige Hygieniska gränsvärden, AFS 2018:1

EU OEL EU 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 91/322/EEC.

TLV-ACGIH ACGIH 2019

	DIISONONYL PHTHALATE										
Threshold Limit Value											
Type	Country	TWA/8h		STEL/15r	min						
		mg/m3	ppm	mg/m3	ppm						
TLV	CZE	3	0,174	10	0,58						
WEL	GBR	5									
GVI/KGVI	HRV	5									
NGV/KGV	SWE	3		5 (C)							

				XYLENE (BE	NZENE <0.0	1%)			
hreshold Limit V	/alue			,		,			
Type	Country	TWA/8h		STEL/15	min				
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	200		400		SKIN			
AGW	DEU	440	100	880	200	SKIN			
MAK	DEU	440	100	880	200	SKIN			
VLA	ESP	221	50	442	100	SKIN			
VLEP	FRA	221	50	442	100	SKIN			
WEL	GBR	220	50	441	100				
TLV	GRC	435	100	650	150				
GVI/KGVI	HRV	221	50	442	100	SKIN			
VLEP	ITA	221	50	442	100	SKIN			
TGG	NLD	210		442		SKIN			
NDS/NDSCh	POL	100							
MV	SVN	221	50			SKIN			
NGV/KGV	SWE	221	50	442	100	SKIN			
OEL	EU	221	50	442	100	SKIN			
TLV-ACGIH		434	100	651	150				
redicted no-effe	ct concentra	ation - PNE)						
Normal value in	fresh water						0,327	mg/l	
Normal value in	marine wate	er					0,327	mg/l	
Normal value for	r fresh wate	r sediment					12,46	mg/kg	
Normal value for	r marine wa	ter sediment					12,46	mg/kg	
Normal value for	or water, inte	rmittent relea	ase				0,327	mg/l	
Normal value of	f STP micro	organisms					6,58	mg/l	
Normal value for	or the terrest	rial compartn	nent				2,31	mg/kg	
lealth - Derived r	no-effect lev	el - DNEL /	DMEL						
	Effe	cts on consu	ımers			Effects on work	ers		
Route of expos	ure Acu	te Acu	ıte	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca	ıl sys	temic	local	systemic		systemic	local	systemic
Oral				VND	1,6 mg/kg/d				
Inhalation				VND	14,8	289	VND	VND	77
					mg/m3	mg/kg			mg/m3
Skin				VND	108			VND	180
					mg/kg/d				mg/kg/d



U-Seal 500

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 6 / 15 Replaced revision:7 (Dated 27/09/2018)

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

		REACTIV	E MIXTUF	RE OF ETHYLE	BENZENE, m-X	(YLENE AND p-)	XYLENE		
hreshold Limit Val	ue								
Туре	Country	TWA/8h		STEL/1	5min				
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH		221	50	442	100				
Predicted no-effect	concentrat	ion - PNEC	;						
Normal value in fr	esh water						0,327	mg/l	
Normal value in m	narine water						0,327	mg/l	
Normal value for fresh water sediment 12,46 mg/kg									
Normal value for	marine wate	r sediment					12,46	mg/kg	
Normal value for	water, intern	nittent relea	ise				0,327	mg/l	
Normal value of S	TP microor	ganisms					6,58	mg/l	
Normal value for t	he terrestria	l compartn	nent				2,31	mg/kg	
lealth - Derived no	effect leve	- DNEL / I	OMEL						
	Effect	s on consu	mers			Effects on wor	kers		
Route of exposure	e Acute	e Acu	te	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	sys	emic	local	systemic		systemic	local	systemic
Oral		•		VND	1,6				
					mg/kg				
Inhalation	VND	174		VND	14,8	VND	289	VND	77
		mg/	m3		mg/m3		mg/m3		mg/m3
Skin				VND	108			VND	180
					mg/kg				mg/kg

				ETHYL	ACETATE				
hreshold Limit \	/alue								
Type	Country	TWA/8h		STEL/15	min				
		mg/m3	ppm	mg/m3	ppm				
TLV	CZE	700	194,6	900	250,2				
AGW	DEU	730	200	1460	400				
MAK	DEU	750	200	1500	400				
VLA	ESP	734	200	1468	400				
VLEP	FRA	1400	400						
WEL	GBR	734	200	1468	400				
TLV	GRC	734	200	1468	400				
GVI/KGVI	HRV	734	200	1468	400				
VLEP	ITA	734	200	1468	400				
TGG	NLD	734		1468					
NDS/NDSCh	POL	734		1468					
VLE	PRT	734	200	1468	400				
MV	SVN	734	200	1468	400				
NGV/KGV	SWE	550	150	1100	300				
OEL	EU	734	200	1468	400				
TLV-ACGIH		1441	400						
Predicted no-effe	ct concentra	ation - PNE	C						
Normal value in	fresh water						0,26	mg/l	
Normal value in	marine wate	er					0,026	mg/l	
Normal value for	or fresh wate	r sediment					1,25	mg/kg	
Normal value for	or marine wa	ter sedimer	nt				0,125	mg/kg	
Normal value for	or water, inte	rmittent rele	ease				1,65	mg/l	
Normal value of	f STP microo	organisms					650	mg/l	
Normal value for	or the terresti	ial compar	tment				0,24	mg/kg	
lealth - Derived r	no-effect lev	el - DNEL	/ DMEL						
	Effe	cts on cons	sumers			Effects on wor	kers		
Route of expos	ure Acu	te Ad	cute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca	l sy	stemic	local	systemic		systemic	local	systemic
Oral		•		VND	4,5		-		•
					mg/kg				
Inhalation	734	73	34	367	367	1468	1468	734	734
	mg/	m3 m	g/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3
Skin			-	VND	37			VND	63
					mg/kg				mg/kg



U-Seal 500

mg/m3

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 7 / 15 Replaced revision:7 (Dated 27/09/2018)

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

DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

Threshold Limit Value

Threshold Limit Value

Type

TWA/8h

ppm

mg/m3

TLV-ACGIH 0,005

BUMETRIZOLE
STEL/15min

TLV-ACGIH 10

Country

		BIS(2,2,6	,6-TETRAMETH	IYL-4-PIPERIC	YL)SEBACATE				
Predicted no-effect cor	ncentration	- PNEC							
Normal value in fresh	water	0,005	mg/l						
Normal value in marii	Normal value in marine water 0.0005								
Normal value for fres	h water sedi	iment				8,02	mg/kg		
Normal value for mar	ine water se	0,802	mg/kg						
Normal value of STP	Normal value of STP microorganisms 1 mg/l								
Normal value for the terrestrial compartment 1,6 mg/kg									
Health - Derived no-effe	ect level - D	NEL / DMEL					0 0		
	Effects or	n consumers			Effects on wor	ers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic	
	local	systemic	local	systemic		systemic	local	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	

ppm

			DIPH	IENYLMETHAN	E-4,4'-DIISO	CYANATE			
Threshold Limit V	/alue					<u> </u>			
Туре	Country	TWA/8h		STEL/15r	nin				
		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			
VLA	ESP	0,052	0,005						
VLEP	FRA	0,1	0,01	0,2	0,02				
TLV	GRC	0,2		0,2					
NDS/NDSCh	POL	0,05		0,2					
NGV/KGV	SWE	0,03	0,002	0,05 (C)	0,005 (C)				
TLV-ACGIH		0,051	0,005						
Predicted no-effe	ct concentra	ation - PNE	C						
Normal value in	r fresh water						1	mg/l	
Normal value in	n marine wate	er					0,1	mg/l	
Normal value for	or water, inte	rmittent rele	ease				10	mg/l	
Normal value of							1	mg/l	
Normal value for	or the terresti	rial compart	tment				1	mg/kg	
Health - Derived r	no-effect lev	el - DNEL	DMEL						
	Effe	cts on cons	umers			Effects on work	cers		
Route of expos	ure Acu	te Ac	cute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	loca	ıl sy	stemic	local	systemic		systemic	local	systemic
Inhalation	0,05 mg/	,	05	0,025 mg/m3	0,025	0,1 mg/m3		0,05 mg/m3	
				J		J		J	



U-Seal 500

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 8 / 15

Replaced revision:7 (Dated 27/09/2018)

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

CTION OF EXPOSURE		•						
			,2 - DIMORPHO	LINODIETHYL	_ ETHER			
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	0,1	mg/l						
Normal value in marine water							mg/l	
Normal value for fres	h water sedi	ment				8,2	mg/kg	
Normal value for marine water sediment							mg/kg	
Normal value for water, intermittent release							mg/l	
Normal value of STP	100	mg/l						
Normal value for the	terrestrial co	mpartment				1,58	mg/kg	
lealth - Derived no-eff	ect level - D	NEL / DMEL					0 0	
	Effects or	n consumers			Effects on wor	kers		
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral		-	VND	0,5		-		-
				mg/kg/d				
Inhalation			VND	1,8			VND	7,28
				mg/m3				mg/m3
Skin			VND	0,5			VND	1
				mg/kg/d				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.

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 compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value
Appearance	paste
Colour	various
Odour	typical
Odour threshold	Not available
рН	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	Not applicable
Evaporation rate	Not available
Flammability (solid, gas)	not flammable
Lower inflammability limit	Not available
Upper inflammability limit	Not available

Information



U-Seal 500

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 9 / 15

Replaced revision:7 (Dated 27/09/2018)

SECTION 9. Physical and chemical properties .../>>

Lower explosive limit
Upper explosive limit
Vapour pressure
Vapour density
Not available
Not available
Not available
Not available

Relative density 1,33

Solubility insoluble in water
Partition coefficient: n-octanol/water Not available
Auto-ignition temperature Not available
Decomposition temperature Not available
Viscosity 60000 - 135000 cps
Explosive properties Not available
Oxidising properties Not available

9.2. Other information

VOC (Directive 2010/75/EC): 6,90 % - 91,77 g/litre

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.

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,aluminium,nitrates,chlorosulphuric acid.Incompatible materials: plastic materials.

10.6. Hazardous decomposition products

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

SECTION 11. Toxicological information

11.1. Information on toxicological effects

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



U-Seal 500

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 10 / 15

Replaced revision:7 (Dated 27/09/2018)

SECTION 11. Toxicological information .../>>

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: > 20 mg/l

LD50 (Oral) of the mixture: Not classified (no significant component)

LD50 (Dermal) of the mixture: >2000 mg/kg

TRIS(NONYLPHENYL)PHOSPHITE

 LD50 (Oral)
 > 15000 mg/kg Rattus sp.

 LD50 (Dermal)
 > 2000 mg/kg Oryctolagus sp.

DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

LD50 (Oral) > 10000 mg/kg Rattus sp.

LD50 (Dermal) > 9400 mg/kg Oryctolagus sp.

LC50 (Inhalation) 1,5 mg/l/4h Rattus sp.

DIPHENYLMETHANE-4,4'-DIISOCYANATE

 LD50 (Oral)
 > 2000 mg/kg Rattus sp.

 LD50 (Dermal)
 > 9400 mg/kg Oryctolagus sp.

 LC50 (Inhalation)
 1,5 mg/l/4h Rattus sp.

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

 LD50 (Oral)
 3700 mg/kg Rattus sp.

 LD50 (Dermal)
 > 3170 mg/kg Rattus sp.

 LC50 (Inhalation)
 0,5 mg/l Rattus sp.

REACTIVE MIXTURE OF ETHYLBENZENE, m-XYLENE AND p-XYLENE LD50 (Oral) 5627 mg/kg Mus sp. LD50 (Dermal) > 5000 ml/kg Oryctolagus sp. LC50 (Inhalation) 6700 ppm/4h Rattus sp.

ETHYL ACETATE

LD50 (Oral) 5620 mg/kg Rattus sp.
LD50 (Dermal) > 20000 mg/kg Oryctolagus sp.
LC50 (Inhalation) 1600 mg/kg Oryctolagus sp.

XYLENE (BENZENE < 0.01%)

 LD50 (Oral)
 5627 mg/kg Mus sp.

 LD50 (Dermal)
 > 5000 mg/kg Oryctolagus sp.

 LC50 (Inhalation)
 6700 ppm/4h Rattus sp.

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 May produce an allergic reaction. Contains:

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



U-Seal 500

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 11 / 15

Replaced revision:7 (Dated 27/09/2018)

SECTION 11. Toxicological information .../>>

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

SECTION 12. Ecological information

12.1. Toxicity

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

 $\begin{array}{lll} {\sf LC50 - for \ Fish} & {\sf 4,4 \ mg/l/96h \ Brachydanio \ rerio} \\ {\sf EC50 - for \ Crustacea} & {\sf 0,57 \ mg/l/48h \ Daphnia \ sp.} \end{array}$

EC50 - for Algae / Aquatic Plants 1,9 mg/l/72h Scenedesmus subspicatus

REACTIVE MIXTURE OF ETHYLBENZENE, m-XYLENE AND p-XYLENE

LC50 - for Fish 2,6 mg/l/96h Salmo gairdneri

EC10 for Algae / Aquatic Plants 1,9 mg/l/72h Selenastrum capricornutum

ETHYL ACETATE

LC50 - for Fish > 212 mg/l/96h

EC50 - for Crustacea 260 mg/l/48h Daphnia pulex

XYLENE (BENZENE < 0.01%)

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

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

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

XYLENE (BENZENE < 0.01%)

Rapidly degradable



U-Seal 500

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 12 / 15

Replaced revision:7 (Dated 27/09/2018)

SECTION 12. Ecological information .../>>

12.3. Bioaccumulative potential

ETHYL ACETATE

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

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

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

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

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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/EC:

None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

ΕN



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

U-Seal 500

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 13 / 15

Replaced revision:7 (Dated 27/09/2018)

SECTION 15. Regulatory information .../>>

Point 52 DIISONONYL PHTHALATE

Point 56 DIPHENYLMETHANE-4,4'-DIISOCYANATE Reg. no.: 01-2119457014-47-XXXX

Substances in Candidate List (Art. 59 REACH)

TRIS(NONYLPHENYL)PHOSPHITE Reg. no.: 01-2119520601-54-XXXX

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 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 been performed for the following contained substances

XYLENE (BENZENE < 0.01%)

REACTIVE MIXTURE OF ETHYLBENZENE, m-XYLENE AND p-XYLENE

ETHYL ACETATE

DIPHENYLMETHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES.

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

DIPHENYLMETHANE-4,4'-DIISOCYANATE

TRIS(NONYLPHENYL)PHOSPHITE

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

H225Highly flammable liquid and vapour.H226Flammable liquid and vapour.H351Suspected of causing cancer.H312Harmful 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.

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.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking. **EUH204** Contains isocyanates. May produce an allergic reaction.



U-Seal 500

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 14 / 15

Replaced revision:7 (Dated 27/09/2018)

SECTION 16. Other information .../>>

Use descriptor system:

ERC 2 Formulation into mixture

ERC 5 Use at industrial site leading to inclusion into/onto article

ERC 8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)

PC1Adhesives, sealantsPC21Laboratory chemicalsPROC10Roller application or brushingPROC15Use as laboratory reagent

PROC 3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled

exposure or processes with equivalent containment condition Chemical production where opportunity for exposure arises

PROC 4 Chemical production where opportunity
PROC 5 Mixing or blending in batch processes

PROC 8a Transfer of substance or mixture (charging and discharging) at non- dedicated facilities
PROC 8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

SU 10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU 17 General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment

SU 19 Building and construction work

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament $\,$
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 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) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition



U-Seal 500

Revision nr.8 Dated 21/11/2019 Printed on 22/11/2019 Page n. 15 / 15 Replaced revision:7 (Dated 27/09/2018)

U-366

- Handling Chemical Safety- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology

SECTION 16. Other information .../>>

- 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.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12.

The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review: The following sections were modified: 01 / 03 / 08 / 09 / 15.