

# **S-Bond Deck**

Revision nr.4 Dated 17/10/2018 Printed on 17/10/2018 Page n. 1 / 11 Replaced revision:3 (Dated 12/04/2016)

# **Safety Data Sheet**

According to Annex II to REACH - Regulation 2015/830

1. Product identifier			
Product name	S-Bond Deck		
2. Relevant identified uses of the substance or n	nixture and uses advised a	gainst	
Intended use	One component, methox applications.	y silane-based, elast	ic adhesive for generic industrial
Identified Uses	Industrial	Professional	Consumer
SEALANTS AND ADHESIVES FORMULATIONS IN INDUSTRY	SU: 10. ERC: 2. PROC: 3, 4, 5, 8a, 8b, 9. PC: 1.		
INDUSTRIAL APPLICATIONS OF SEALANTS		-	-
AND ADHESIVES	SU: 17, 19. ERC: 5, 8b. PROC: 10, 8a, 8b. PC: 1.	SU: 17, 19. ERC: 5, 8b. PROC: 10, 8a, 8b. PC: 1.	
CHEMICAL SUBSTANCE USE IN LABORATORY, INDUSTRIAL	PROC: 15. PC: 1, 21.		
.3. Details of the supplier of the safety data sheel	t		
Name Full address District and Country	N.P.T. S.R.L. A SOCIO UN via Guido Rossa 2 40053 Valsamoggia - Lo Italy Tel. +39 051 969109		(BO)
e-mail address of the competent person responsible for the Safety Data Sheet	Fax +39 051 969837 infoSDS@nptsrl.com		
.4. Emergency telephone number			
For urgent inquiries refer to	Laboratories and manufa +39 0382 815132 (avaiabl 8.30-12.30, 13.30-17.00).		o Cairoli (PV) iday, only in the following office hours
SECTION 2. Hazards identification			
2.1. Classification of the substance or mixture			
The product is not classified as hazardous pursuar However, since the product contains bazardous su	bstances in concentrations s	0	2/2008 (CLP). d in section no. 3, it requires a safety data
sheet with appropriate information, compliant to (E			
sheet with appropriate information, compliant to (E			



N.P.T. S.R.L. A SOCIO UNICO S-Bond Deck Revision nr.4 Dated 17/10/2018 Printed on 17/10/2018 Page n. 2 / 11 Replaced revision:3 (Dated 12/04/2016)

#### SECTION 2. Hazards identification ... / >>

Hazard pictograms:		
Signal words:		
Hazard statements: EUH210 EUH208	Contains:	et available on request. N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE. a allergic reaction.

Precautionary statements:

### 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)

TRIETHYLPHOSPHATE CAS 78-40-0  $4,5 \le x \le 5$ Acute Tox. 4 H302, Eye Irrit. 2 H319 EC 201-114-5 INDEX 015-013-00-7 Reg. no. 01-2119492852-28-0000 N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE. Acute Tox. 4 H332, STOT RE 2 H373, Eye Dam. 1 H318, Skin Sens. 1 H317 CAS 1760-24-3  $0,89 \le x < 1$ 

EC 217-164-6 INDEX Reg. no. 01-2119970215-39-XXXX

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 immediately with a clean cloth or paper and wash affected area with soap and water. SKIN: take off contaminated clothing. Wash immediately with plenty of water. If irritation persists, consult a doctor. Wash contaminated clothing before reuse.

INHALATION: In case of feeling unwell remove patient to fresh air and seek medical attention if breathing difficulty succeeding. INGESTION: eject the product and rinse mouth with water

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

Information not available

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

Consult a doctor if symptoms are severe or in the case of persistent irritation of the skin.

### **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.



# **S-Bond Deck**

## SECTION 5. Firefighting measures ... / >>

### 5.3. Advice for firefighters

# GENERAL INFORMATION

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

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

# **SECTION 6.** Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

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

#### 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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

#### 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. 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:

DEU	Deutschland	TRGS 900 (Fassung 31.1.2018 ber.) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2017
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
HRV	Hrvatska	NN13/09 - Ministarstvo gospodarstva, rada i poduzetništva
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
NLD	Nederland	Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18
POL	Polska	ROZPORZADZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 7 czerwca 2017 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



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

		químicos no trabalho - Diaro da Republica I 26; 2012-02-06
SWE	Sverige	Occupational Exposure Limit Values, AF 2011:18
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 2018

#### TRIETHYLPHOSPHATE Predicted no-effect concentration - PNEC Normal value in fresh water 0.632 mg/l Normal value in marine water 0,0632 mg/l mg/kg/d Normal value for fresh water sediment 4.83 Normal value of STP microorganisms 298,5 mg/l Normal value for the terrestrial compartment 0,596 mg/kg/d Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Route of exposure Acute Acute Chronic Chronic Acute local Acute Chronic Chronic local systemic local systemic systemic local systemic VND VND 1,66 Oral 13,3 mg/kg/d mg/kg/d Inhalation VND 23,12 VND VND 93,6 VND 2,89 11,7 mg/m3 mg/m3 mg/m3 mg/m3 Skin VND VND VND VND 3,33 13.3 1,66 26,6 mg/m3 mg/m3 mg/kg/d mg/kg/d

				DIISONONY	L PHTHALATE
<b>Threshold Limi</b>	it Value				
Туре	Country	TWA/8h		STEL/15r	nin
		mg/m3	ppm	mg/m3	ppm
WEL	GBR	5			

### N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE.

Predicted no-effect co	ncentration	- PNEC						
Normal value in fresh	n water					0,062	mg/l	
Normal value in mari	ne water					0,0062	mg/l	
Normal value for fres	h water sed	iment				0,22	mg/kg	
Normal value for man	rine water se	ediment				0,022	mg/kg	
Normal value for wat	er, intermitte	ent release				0,62	mg/l	
Normal value of STP	microorgan	isms				25	mg/l	
Normal value for the terrestrial compartment 0,0085 mg/kg								
Health - Derived no-eff	ect level - D	DNEL / DMEL						
	Effects of	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
Inhalation	NPI		NPI	8,7	NPI		NPI	35,3
				mg/m3				mg/m3
Skin		17		2,5		5		5
		mg/kg bw/d		mg/kg bw/d		mg/kg		mg/kg
						bw/d		bw/d



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

#### VINYLTRIMETHOXYSILANE. Predicted no-effect concentration - PNEC Normal value in fresh water 0.34 mg/l Normal value in marine water 0,034 mg/l Normal value for fresh water sediment 0,27 mg/kg Normal value for water intermittent release 34 mg/l Normal value of STP microorganisms 110 mg/l Normal value for the terrestrial compartment 0,046 mg/kg Health - Derived no-effect level - DNEL / DMEL Effects on consumers Effects on workers Route of exposure Acute Acute Chronic Chronic Acute local Acute Chronic Chronic local local systemic systemic systemic local systemic Oral VND 0.3 mg/kg/d Inhalation VND VND VND 93.4 1,04 4,9 mg/m3 mg/m3 mg/m3 Skin VND 26,9 VND 0.3 VND 0,69 mg/kg/d mg/kg/d mg/kg/d

				ME	THANOL			
Threshold Limit	Value							
Туре	Country	TWA/8h		STEL/15	min			
		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	270	200	1080	800	SKIN		
MAK	DEU	270	200	1080	800	SKIN		
VLA	ESP	266	200			SKIN		
VLEP	FRA	260	200	1300	1000	SKIN		
WEL	GBR	266	200	333	250	SKIN		
TLV	GRC	260	200	325	250			
GVI	HRV	260	200			SKIN		
VLEP	ITA	260	200			SKIN		
OEL	NLD	133	100			SKIN		
NDS	POL	100		300				
VLE	PRT	260	200			SKIN		
MAK	SWE	250	200	350	250	SKIN		
OEL	EU	260	200			SKIN		
TLV-ACGIH		262	200	328	250			

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 Directive 89/686/EEC 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.



# **S-Bond Deck**

# **SECTION 9.** Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	paste
Colour	black
Odour	typical
Odour threshold	Not available
pH	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
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1,61
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	17000 - 26000 cps
Explosive properties	Not available
Oxidising properties	Not available
9.2. Other information	
VOC (Directive 2010/75/EC) :	4,99 % - 152,47

# **SECTION 10. Stability and reactivity**

#### 10.1. Reactivity

Product reacts slowly with water (ambient humidity) turning into a rubbery solid and producing METHANOL.

#### 10.2. Chemical stability

Product stable under normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions

Under conditions of normal use and storage not hazardous reactions are foreseeable.

#### 10.4. Conditions to avoid

Humidity.

#### 10.5. Incompatible materials

Water.

#### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

# **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

to is therefore necessary to take into account the concentration of the individual nazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

g/litre



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# 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

Information not available

#### ACUTE TOXICITY

LC50 (Inhalation) of the mixture: LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture: Not classified (no significant component) >2000 mg/kg Not classified (no significant component)

N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE.LD50 (Oral)2295 mg/kg Rattus sp.LD50 (Dermal)> 2000 mg/kg Oryctolagus sp.LC50 (Inhalation)1,49 mg/l/4h Rattus sp.

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

> 8817 mg/m3 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**

May produce an allergic reaction. Contains: N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE.

#### 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



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Does not meet the classification criteria for this hazard class

## **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-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE.

 LC50 - for Fish
 344 mg/l/96h Brachydanio rerio

 EC50 - for Crustacea
 81 mg/l/48h Daphnia magna

 EC50 - for Algae / Aquatic Plants
 126 mg/l/72h Scenedesmus subspicatus

 TRIETHYLPHOSPHATE

TRIETHYLPHOSPHATE LC50 - for Fish EC50 - for Algae / Aquatic Plants Chronic NOEC for Crustacea

> 100 mg/l/96h Danio rerio 900 mg/l/72h Desmodesmus subspicatus 31,6 mg/l Daphnia magna

#### 12.2. Persistence and degradability

N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE. NOT rapidly degradable

#### 12.3. Bioaccumulative potential

Information not available

#### 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. Neat product residues should be considered special non-hazardous waste. 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



S-Bond Deck

# SECTION 14. Transport information ..../>>

#### 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 Contained substance

Point 52 DIISONONYL PHTHALATE

Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

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 Information not available

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 1: Low hazard to waters

#### 15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

# **SECTION 16. Other information**

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

STOT RE 2Specific target organ toxicity - repeated exposure, category 2Eye Dam. 1Serious eye damage, category 1Eye Irrit. 2Eye irritation, category 2Skin Sens. 1Skin sensitization, category 1H302Harmful if swallowed.H332Harmful if inhaled.H373May cause damage to organs through prolonged or repeated exposure.H318Causes serious eye damage.H319Causes serious eye irritation.H317May cause an allergic skin reaction.EUH210Safety data sheet available on request.	Acute Tox. 4	Acute toxicity, category 4
Eye Irrit. 2Eye irritation, category 2Skin Sens. 1Skin sensitization, category 1H302Harmful if swallowed.H332Harmful if inhaled.H373May cause damage to organs through prolonged or repeated exposure.H318Causes serious eye damage.H319Causes serious eye irritation.H317May cause an allergic skin reaction.	STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Sens. 1Skin sensitization, category 1H302Harmful if swallowed.H332Harmful if inhaled.H373May cause damage to organs through prolonged or repeated exposure.H318Causes serious eye damage.H319Causes serious eye irritation.H317May cause an allergic skin reaction.	Eye Dam. 1	Serious eye damage, category 1
H302Harmful if swallowed.H332Harmful if inhaled.H373May cause damage to organs through prolonged or repeated exposure.H318Causes serious eye damage.H319Causes serious eye irritation.H317May cause an allergic skin reaction.	Eye Irrit. 2	Eye irritation, category 2
H332Harmful if inhaled.H373May cause damage to organs through prolonged or repeated exposure.H318Causes serious eye damage.H319Causes serious eye irritation.H317May cause an allergic skin reaction.	Skin Sens. 1	Skin sensitization, category 1
H373May cause damage to organs through prolonged or repeated exposure.H318Causes serious eye damage.H319Causes serious eye irritation.H317May cause an allergic skin reaction.	H302	Harmful if swallowed.
H318Causes serious eye damage.H319Causes serious eye irritation.H317May cause an allergic skin reaction.	H332	Harmful if inhaled.
H319Causes serious eye irritation.H317May cause an allergic skin reaction.	H373	May cause damage to organs through prolonged or repeated exposure.
H317 May cause an allergic skin reaction.	H318	Causes serious eye damage.
	H319	Causes serious eye irritation.
EUH210 Safety data sheet available on request.	H317	May cause an allergic skin reaction.
	EUH210	Safety data sheet available on request.



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#### SECTION 16. Other information ... / >>

Use descr	iptor system:	
ERC	2	Formulation of preparations
ERC	5	Industrial use resulting in inclusion into or onto a matrix
ERC	8b	Wide dispersive indoor use of reactive substances in open systems
PC	1	Adhesives, sealants
PC	21	Laboratory chemicals
PROC	10	Roller application or brushing
PROC	15	Use as laboratory reagent
PROC	3	Use in closed batch process (synthesis or formulation)
PROC	4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC	5	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC	8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC	8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC	9	Transfer of substance or preparation 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 (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety



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#### 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.

Changes to previous review: The following sections were modified: 01 / 02 / 03 / 04 / 05 / 07 / 08 / 09 / 11 / 12 / 14 / 15 / 16.