

TECHNO SCREEN MS

Revision nr.7 Dated 01/06/2018 Printed on 01/06/2018 Page n. 1 / 11

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

Product name: TECHNO SCREEN MS

1.2. elevant identified uses of the substance or mixture and use

Intended use One component moisture curing, methoxy silane-based, adhesive/sealant for

various industrial applications.

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. 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** LABORATORY, INDUSTRIAL PROC: 15. PC: 1, 21.

1.3. Details of the supplier of the safety data sheet

TECHNIQUA HANDELS GmbH Hartleitnerstraße 3 A-4653 Fberstalzell Tel: +43 (0) 7241 213 79

E-Mail: office@techniqua.at

1.4 Poison information center

Poisoning Information Centre (VIZ), Stubenring 6, A-1010 Vienna, Emergency call 0-24 hrs: +43 1 406 43 43, Office hours: Monday to Friday, 8 to 16 hrs, Tel.: +43 1 406 68 98

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2015/830.

Hazard classification and indication:

2.2. Label elements

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



TECHNO SCREEN MS

Revision nr.7 Dated 01/06/2018 Printed on 01/06/2018 Page n. 2 / 11

SECTION 2. Hazards identification .../>>

Hazard pictograms: -

Signal words: --

Hazard statements:

EUH210 Safety data sheet available on request.

EUH208 Contains: N-[3-(TRIMETHOXYSILYL)PROPYL]ETHYLENEDIAMINE.

May produce an 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

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

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

TRIETHYLPHOSPHATE

CAS 78-40-0 $5 \le x < 6$ 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.

CAS 1760-24-3 0,8 ≤ x < 0,9 Acute Tox. 4 H332, STOT RE 2 H373, Eye Dam. 1 H318, Skin Sens. 1 H317

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



TECHNO SCREEN MS

Revision nr.7 Dated 01/06/2018 Printed on 01/06/2018 Page n. 3 / 11

SECTION 5. Firefighting measures .../>>

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

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. If the product is flammable, use explosion-proof equipment. 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



TECHNO SCREEN MS

Revision nr.7 Dated 01/06/2018 Printed on 01/06/2018 Page n. 4 / 11

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	ROZPORZĄDZENIE 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
		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 2017

			TRIETHY	/LPHOSPHATI	E				
Predicted no-effect cor	ncentration	- PNEC							
Normal value in fresh water 0,632 mg/l									
Normal value in marine water 0,0632 mg/l									
Normal value for fres	h water sed	iment				4,83	mg/kg/d		
Normal value of STP	microorgan	isms				298,5	mg/l		
Normal value for the	terrestrial co	ompartment				0,596	mg/kg/d		
Health - Derived no-eff	ect level - D	NEL / DMEL							
	Effects o	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	13,3	VND	1,66					
		mg/kg/d		mg/kg/d					
Inhalation	VND	23,12	VND	2,89	VND	93,6	VND	11,7	
		mg/m3		mg/m3		mg/m3		mg/m3	
Skin	VND	13.3	VND	1,66	VND	26,6	VND	3,33	
		mg/m3		mg/m3		mg/kg/d		mg/kg/d	

		N-I3-(TRIME	THOXYSILYL)PROPYLIETH)	LENEDIAMINE.			
Predicted no-effect con	centration	- '		, 				
Normal value in fresh	water		0,062	mg/l				
Normal value in marir	ne water	0,0062	mg/l					
Normal value for fresh	n water sedi		0,22	mg/kg				
Normal value for marine water sediment 0,022 mg/kg								
Normal value for water	er, intermitte	nt release				0,62	mg/l	
Normal value of STP	microorgani	sms				25	mg/l	
Normal value for the t	terrestrial co	mpartment				0,0085	mg/kg	
Health - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	consumers			Effects on work	ers		
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



Revision nr.7 Dated 01/06/2018 Printed on 01/06/2018 Page n. 5 / 11

TECHNO SCREEN MS

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

			VINYLTRIM	IETHOXYSILA	NE.					
Predicted no-effect con	ncentration	- PNEC								
Normal value in fresh	water					0,34	mg/l			
Normal value in marir	ne water					0,034	mg/l			
Normal value for fresh	h water sedi	iment				0,27	mg/kg			
Normal value for water	er, intermitte	ent release				3,4	mg/l			
Normal value of STP	microorgan	isms				110	mg/l			
Normal value for the t	Normal value for the terrestrial compartment 0,046 mg/kg									
Health - Derived no-effe	ect level - D	NEL / DMEL								
	Effects or	n consumers			Effects on wor	kers	ers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic		
	local	systemic	local	systemic		systemic	local	systemic		
Oral			VND	0,3						
				mg/kg/d						
Inhalation	VND	93,4	VND	1,04			VND	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		

		BIS(2,2,6	,6-TETRAMETH	IYL-4-PIPERID	YL)SEBACATE				
Predicted no-effect con	centration	- PNEC							
Normal value in fresh	water					0,005	mg/l		
Normal value in marir	ne 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	microorgan	isms				1	mg/l		
Normal value for the t	errestrial co	mpartment				1,6	mg/kg		
Health - Derived no-effe	ect level - D	NEL / DMEL							
	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	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	

BUMETRIZOLE									
Threshold Limit Value									
Type	Country	TWA/8h		STEL/15	min				
		mg/m3	ppm	mg/m3	ppm				
TLV-ACGIH		10							

mg/kg

mg/kg

	METHANOL										
Threshold Limit	Threshold Limit Value										
Type	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.

mg/kg



Revision nr.7
Dated 01/06/2018
Printed on 01/06/2018
Page n. 6 / 11

TECHNO SCREEN MS

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

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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance paste
Colour various
Odour characteristic
Odour threshold Not available
pH Not available
Melting point / freezing point Not available
Initial boiling point Not available
Boiling range Not available

Flash point Combustion not sustained.

Evaporation rate Not available Flammability (solid, gas) not flammable Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Not available Upper explosive limit Vapour pressure Not available Vapour density Not available Relative density 1 45 Not available Solubility Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not available Decomposition temperature Not available 250000 - 300000 cps Viscosity Explosive properties Not available

9.2. Other information

Oxidising properties

VOC (Directive 2010/75/EC): 5,00 % - 73,50 g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

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

Not available

10.2. Chemical stability

Product stable under normal conditions of use and storage.



TECHNO SCREEN MS

Revision nr.7 Dated 01/06/2018 Printed on 01/06/2018 Page n. 7 / 11

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

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 toxicological effects of exposure to the product.

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: Not classified (no significant component)

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

LD50 (Dermal) of the mixture: 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)
 1600 mg/kg Rattus sp.

 LD50 (Dermal)
 > 20000 mg/kg Oryctolagus sp.

 LC50 (Inhalation)
 > 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:



Revision nr.7 Dated 01/06/2018 Printed on 01/06/2018 Page n. 8 / 11

TECHNO SCREEN MS

SECTION 11. Toxicological information .../>>

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

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

LC50 - for Fish > 100 mg/l/96h Danio rerio

EC50 - for Algae / Aquatic Plants 900 mg/l/72h Desmodesmus subspicatus

Chronic NOEC for Crustacea 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



TECHNO SCREEN MS

Revision nr.7 Dated 01/06/2018 Printed on 01/06/2018 Page n. 9 / 11

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

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

None

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 authorisarion (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



TECHNO SCREEN MS

Revision nr.7 Dated 01/06/2018 Printed on 01/06/2018 Page n. 10 / 11

SECTION 15. Regulatory information .../>>

Information not available

German regulation on the classification of substances hazardous to water (VwVwS 2005)

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:

Acute Tox 4 Acute toxicity, category 4

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 sensitization, category 1B Skin Sens. 1B

Harmful if swallowed. H302 Harmful if inhaled. H332

H373 May cause damage to organs through prolonged or repeated exposure.

H318 Causes serious eye damage. Causes serious eye irritation. H319 H317 May cause an allergic skin reaction. **EUH210** Safety data sheet available on request.

Use descriptor system:

Formulation of preparations **ERC**

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 Adhesives, sealants 1 Laboratory chemicals PC 21 **PROC** 10 Roller application or brushing Use as laboratory reagent **PROC** 15

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

PROC 9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing) 10

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

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



TECHNO SCREEN MS

Revision nr.7 Dated 01/06/2018 Printed on 01/06/2018 Page n. 11 / 11

SECTION 16. Other information .../>>

- 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)
- 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.

Changes to previous review:

The following sections were modified: 01 / 03 / 04 / 05 / 07 / 08 / 09 / 11 / 12 / 15 / 16.