Revision nr. 3 DRACO ITALIANA S.p.A. Dated 02/04/2021 Printed on 02/04/2021 **DRAP252 - SILOXAN V** Page n. 1/19 Replaced revision:2 (Dated: 25/03/2021)

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

Code: DRAP252 Product name SILOXAN V

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

SINGLE-COMPONENT WATER-REPELLENT WATERPROOFING FOR CONCRETE AND STONE MATERIALS Intended use

Identified Uses Professional Industrial Consumer Use in coatings

Uses Advised Against

Do not use for uses other than those indicated.

1.3. Details of the supplier of the safety data sheet

DRACO ITALIANA S.p.A. Full address Via Monte Grappa, 11 D-E 20067 Tribiano (MI) District and Country Italia

Tel. +39 02.90632917 Fax +39 02.90631976

e-mail address of the competent person

responsible for the Safety Data Sheet info@draco-edilizia.it

1.4. Emergency telephone number

For urgent inquiries refer to

Centro Antiveleni di Bergamo 800883300 (Azienda Ospedaliera Papa Giovanni XXII)

Centro Antiveleni di Firenze 0557947819 (Az. Osp. "Careggi" U.O. Tossicologia Medica)

Centro Antiveleni di Foggia 80018345 (Az. Osp. Univ. Foggia)

Centro Antiveleni di Milano 0266101029 (Osp. Niguarda Ca' Granda)

Centro Antiveleni di Napoli 0817472870 (Az. Osp. "A. Cardarelli") Centro Antiveleni di Pavia 038224444 (CAV Centro Nazionale di Informazione Tossicologica)

Centro Antiveleni di Roma 063054343 (CAV Policlinico "A. Gemelli")

Centro Antiveleni di Roma 0649978000 (CAV Policlinico "Umberto I")

Centro Antiveleni di Roma 06 68593726 (CAV "Osp. Pediatrico Bambino Gesù"

Dip. Emergenza e Accettazione DEA)

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:

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Flammable liquid, category 2 H225 Highly flammable liquid and vapour.

Aspiration hazard, category 1 H304 May be fatal if swallowed and enters airways.

Eye irritation, category 2 H319 Causes serious eye irritation. Skin irritation, category 2 H315 Causes skin irritation.

Specific target organ toxicity - single exposure, category 3 H336 May cause drowsiness or dizziness.

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:

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P331 Do NOT induce vomiting.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor / . . .

P261 Avoid breathing dust / fume / gas / mist / vapours / spray.

P233 Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

Contains: Acetone

Xilene, miscela di isomeri

ETHYLBENZENE

2.3. Other hazards

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

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

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

Acetone

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CAS 67-64-1 75 ≤ x < 85 Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

EC 200-662-2

INDEX 606-001-00-8

Reg. no. 01-2119471330-49-XXXX

Xilene, miscela di isomeri

CAS 1330-20-7 4 ≤ x < 6 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Chronic 3

H412

EC 215-535-7

INDEX 601-022-00-9

Reg. no. 01-2119488216-32-XXXX

2-BUTOXYETHANOL

CAS 111-76-2 1 ≤ x < 2,5 Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319,

Skin Irrit. 2 H315

EC 203-905-0

INDEX 603-014-00-0

ETHYLBENZENE

CAS 100-41-4 1 ≤ x < 2,5 Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373,

Aquatic Chronic 3 H412

EC 202-849-4

INDEX 601-023-00-4

Reg. no. 01-2119489370-35-XXXX

Xilene, miscela di isomeri

CAS 1330-20-7 1 ≤ x < 2 Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Asp. Tox. 1 H304,

STOT RE 2 H373, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335,

Aquatic Chronic 3 H412

EC 215-535-7

INDEX 601-022-00-9

Reg. no. 01-2119488216-32-XXXX

ETHYL SILICATE

CAS 78-10-4 0,5 ≤ x < 0,8 Flam. Liq. 3 H226, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335

EC 201-083-8

INDEX 014-005-00-0

Reg. no. 01-2119496195-28-0003

METANOLO

CAS 67-56-1 0,05 ≤ x < 0,07 Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3

H331, STOT SE 1 H370

EC 200-659-6

INDEX 603-001-00-X

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

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. 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.

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

See sections 2 and 11

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

Symptomatic treatment

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).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures. Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. 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

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Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS Decreto Legislativo 9 Aprile 2008, n.81 EH40/2005 Workplace exposure limits (Third edition, published 2018) FRA France

Italia ITA

GBR United Kingdom

OEL EU Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive

2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

TLV-ACGIH **ACGIH 2019**

Acetone Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks / Observation		
		mg/m3	ppm	mg/m3	ppm			
VLEP	FRA	1210	500	2420	1000			
VLEP	ITA	1210	500					
WEL	GBR	1210	500	3620	1500			
OEL	EU	1210	500					
TLV-ACGIH		250	594	1187	500		irr oclr, T	RS, ssnc
Predicted no-effect concentration	n - PNEC							
Normal value in fresh water				10,6	mg.	/I		
Normal value in marine water				1,06	mg	/I		
Normal value for fresh water sed	liment			30,4	mg	/kg/d		
Normal value for marine water sediment				3,04	mg.	/kg/d		
Normal value for water, intermitte	ent release			21	mg.	/I		
Normal value of STP microorgan	nisms			100	mg	/I		
Normal value for the terrestrial co	ompartment			29,5	mg	/kg/d		
Health - Derived no-effect I		DMEL						
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral						62 mg/kg bw/d		
Inhalation				200 mg/m3	2420 mg/m3			1210 mg/m3
Skin				62 mg/kg bw/d				186 mg/kg bw/d
Xilene, miscela di isomeri Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks /		
		mg/m3	ppm	mg/m3	ppm	Observatio	ліз	

Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLEP	FRA	221	50	442	100	SKIN	

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/LEP	ITA	221	50	442	100			
WEL	GBR	220	50	441	100	SKIN		
OEL	EU	221	50	442	100	SKIN		
TLV-ACGIH		434	100	651	150			
Predicted no-effect concentration	on - PNEC							
Normal value in fresh water				0,327	mç	g/l		
Normal value in marine water				0,327	mg	g/l		
Normal value for fresh water se	ediment			12,46	mg	g/kg		
Normal value for marine water	sediment			12,46	mç	g/kg		
Normal value for water, intermi	ttent release			0,327	mç	g/l		
Normal value of STP microorga	anisms			6,58	mç	g/l		
Normal value for the terrestrial	compartment			2,31	mç	g/kg		
Health - Derived no-effec	t level - DNEL / D Effects on consumers	MEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Inhalation				systemic	442 mg/m3	systemic 442 mg/m3	221 mg/m3	systemic 221 mg/m
ETHYLBENZENE Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks		
		mg/m3	ppm	mg/m3	ppm	Observa	tions	
VLEP	FRA	88,4	20	442	100	SKIN		
VLEP	ITA	442	100	884	200	SKIN		
WEL	GBR	441	100	552	125	SKIN		
OEL	EU	442	100	884	200	SKIN		
TLV-ACGIH		87	20					
Predicted no-effect concentrati	on - PNEC							
Normal value in fresh water				0,1	mç	g/l		
Normal value in marine water				0,01	mç	g/l		
Normal value for fresh water so	ediment			13,7	mç	g/kg		
Normal value for marine water	sediment			1,37	mç	g/kg		
Normal value for water, intermi	ittent release			0,1	mç	g/l		
Normal value of STP microorga	anisms			9,6	mç	g/l		
Normal value for the terrestrial				2,68	mç	g/kg		
Health - Derived no-effec	Effects on	DMEL			Effects on			
Route of exposure	consumers Acute local	Acute systemic	Chronic local	Chronic	workers Acute local	Acute	Chronic local	Chronic
Oral				systemic 1,6 mg/kg bw/d		systemic		systemic
nhalation				15 mg/m3	293 mg/m3			77 mg/m3
Skin 2-BUTOXYETHANOL								180 mg/kg
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks	s /	
**	,,					Observa		

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		mg/m3	nnm	mg/m3	nnm			
VLEP	FRA	49	ppm 10	246	50	SKIN		
VLEP	ITA	98	20	246	50	SKIN		
WEL	GBR	123	25	246	50	SKIN		
OEL	EU	98	20	246	50	SKIN		
TLV-ACGIH		97	20					
Predicted no-effect concentrati	ion - PNEC							
Normal value in fresh water				8,8	mg			
Normal value in marine water				0,88	mg	ı/l		
Normal value for fresh water se	ediment			34,6	mg	ı/kg		
Normal value for marine water	sediment			3,46	mg	ı/kg		
Normal value for water, intermi	ittent release			9,1	mg	ı/I		
Normal value of STP microorga	anisms			463	mg	ı/I		
Normal value for the terrestrial	compartment			2,33	mg	/kg/d		
Health - Derived no-effect	t level - DNEL / D Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute	Chronic local	Chronic
Oral		26,7 mg/kg		systemic 6,3 mg/kg		systemic		systemic
Inhalation	147 mg/m3	bw/d 426 mg/m3	147 mg/m3	bw/d 59 mg/m3	246 mg/m3	1091 mg/m3		98 mg/m3
						00 "		125 mg/kg
Xilene, miscela di isomer	ri .	89 mg/kg bw/d		75 mg/kg bw/d		89 mg/kg bw/d		bw/d
Xilene, miscela di isomer Threshold Limit Value	·i Country	89 mg/kg bw/d				bw/d Remarks /		
Xilene, miscela di isomer Threshold Limit Value		TWA/8h	ppm	bw/d STEL/15min	ppm	bw/d		
Xilene, miscela di isomer Threshold Limit Value Type			ppm 50	bw/d	ppm 100	bw/d Remarks /		
Xilene, miscela di isomer Threshold Limit Value Type VLEP	Country	TWA/8h mg/m3 221	50	STEL/15min mg/m3	100	Remarks / Observation		
Xilene, miscela di isomer Threshold Limit Value Type VLEP	Country FRA ITA	TWA/8h mg/m3 221 221	50	STEL/15min mg/m3 442 442	100	Remarks / Observation		
Xilene, miscela di isomer Threshold Limit Value Type VLEP VLEP	Country FRA ITA GBR	TWA/8h mg/m3 221 221 220	50 50 50	STEL/15min mg/m3 442 441	100 100 100	Remarks / Observation		
Xilene, miscela di isomer Threshold Limit Value Type VLEP VLEP WEL	Country FRA ITA	TWA/8h mg/m3 221 221 220 221	50 50 50 50	STEL/15min mg/m3 442 441 442	100 100 100 100	Remarks / Observation		
Xilene, miscela di isomer Threshold Limit Value Type VLEP VLEP WEL OEL TLV-ACGIH	FRA ITA GBR EU	TWA/8h mg/m3 221 221 220	50 50 50	STEL/15min mg/m3 442 441	100 100 100	Remarks / Observation		
Xilene, miscela di isomer Threshold Limit Value Type VLEP VLEP WEL OEL TLV-ACGIH Predicted no-effect concentrati	FRA ITA GBR EU	TWA/8h mg/m3 221 221 220 221	50 50 50 50	STEL/15min mg/m3 442 442 441 442 651	100 100 100 100 150	Remarks / Observation SKIN SKIN		
Xilene, miscela di isomer Threshold Limit Value Type VLEP VLEP WEL OEL TLV-ACGIH Predicted no-effect concentrati Normal value in fresh water	FRA ITA GBR EU	TWA/8h mg/m3 221 221 220 221	50 50 50 50	bw/d STEL/15min mg/m3 442 442 441 442 651	100 100 100 100 150	Remarks / Observation SKIN SKIN SKIN		
Xilene, miscela di isomer Threshold Limit Value Type VLEP VLEP WEL OEL TLV-ACGIH Predicted no-effect concentrati Normal value in fresh water Normal value in marine water	FRA ITA GBR EU	TWA/8h mg/m3 221 221 220 221	50 50 50 50	bw/d STEL/15min mg/m3 442 441 442 651 0,327 0,327	100 100 100 100 150 mg	Remarks / Observation SKIN SKIN SKIN		
Xilene, miscela di isomer Threshold Limit Value Type VLEP VLEP WEL OEL TLV-ACGIH Predicted no-effect concentrati Normal value in fresh water Normal value for fresh water se	FRA ITA GBR EU ion - PNEC	TWA/8h mg/m3 221 221 220 221	50 50 50 50	bw/d STEL/15min mg/m3 442 441 442 651 0,327 0,327 12,46	100 100 100 100 150 mg	Remarks / Observation SKIN SKIN SKIN J/I		
Xilene, miscela di isomer Threshold Limit Value Type VLEP VLEP WEL OEL TLV-ACGIH Predicted no-effect concentrati Normal value in fresh water Normal value in marine water Normal value for fresh water se Normal value for marine water	FRA ITA GBR EU ion - PNEC ediment sediment	TWA/8h mg/m3 221 221 220 221	50 50 50 50	bw/d STEL/15min mg/m3 442 441 442 651 0,327 0,327 12,46 12,46	100 100 100 100 150 mg mg mg	Remarks / Observation SKIN SKIN SKIN J/I J/I J/I J/kg		
Xilene, miscela di isomer Threshold Limit Value Type VLEP VLEP WEL OEL TLV-ACGIH Predicted no-effect concentrati Normal value in fresh water Normal value for fresh water se Normal value for marine water Normal value for marine water Normal value for marine water	FRA ITA GBR EU ion - PNEC ediment sediment anisms	TWA/8h mg/m3 221 221 220 221	50 50 50 50	bw/d STEL/15min mg/m3 442 441 442 651 0,327 0,327 12,46 12,46 6,58	100 100 100 100 150 mg mg mg mg	Remarks / Observation SKIN SKIN SKIN J/I J/I J/Kg J/Kg		
Xilene, miscela di isomer Threshold Limit Value Type VLEP VLEP WEL OEL TLV-ACGIH Predicted no-effect concentrati Normal value in fresh water Normal value for fresh water se Normal value for marine water Normal value for marine water Normal value for marine water Normal value for seh water se	FRA ITA GBR EU ion - PNEC ediment sediment anisms compartment	TWA/8h mg/m3 221 221 220 221 434	50 50 50 50	bw/d STEL/15min mg/m3 442 441 442 651 0,327 0,327 12,46 12,46	100 100 100 100 150 mg mg mg mg	Remarks / Observation SKIN SKIN SKIN J/I J/I J/I J/kg		
Xilene, miscela di isomer Threshold Limit Value Type VLEP VLEP WEL OEL TLV-ACGIH Predicted no-effect concentrati Normal value in fresh water Normal value for fresh water se Normal value for marine water Normal value for marine water Normal value for the terrestrial Health - Derived no-effect	FRA ITA GBR EU ion - PNEC ediment sediment anisms compartment	TWA/8h mg/m3 221 221 220 221 434	50 50 50 50	bw/d STEL/15min mg/m3 442 441 442 651 0,327 0,327 12,46 12,46 6,58	100 100 100 100 150 mg mg mg mg	Remarks / Observation SKIN SKIN SKIN J/I J/I J/Kg J/Kg		
Xilene, miscela di isomer Threshold Limit Value Type VLEP VLEP WEL OEL TLV-ACGIH Predicted no-effect concentrati Normal value in fresh water Normal value for fresh water se Normal value for fresh water se Normal value for marine water Normal value for the terrestrial Health - Derived no-effect Route of exposure	FRA ITA GBR EU ion - PNEC ediment sediment anisms compartment t level - DNEL / D Effects on	TWA/8h mg/m3 221 221 220 221 434	50 50 50 50	bw/d STEL/15min mg/m3 442 441 442 651 0,327 0,327 12,46 12,46 6,58 2,31 Chronic systemic	100 100 100 100 150 mg mg mg mg mg mg Effects on	Remarks / Observation SKIN SKIN SKIN J/I J/I J/Kg J/Kg		
Xilene, miscela di isomer Threshold Limit Value Type VLEP VLEP WEL OEL TLV-ACGIH Predicted no-effect concentrati Normal value in fresh water Normal value for fresh water se Normal value for marine water Normal value for marine water Normal value for the terrestrial Health - Derived no-effect	FRA ITA GBR EU ion - PNEC ediment sediment anisms compartment t level - DNEL / D Effects on consumers	TWA/8h mg/m3 221 221 220 221 434	50 50 50 50 100	bw/d STEL/15min mg/m3 442 441 442 651 0,327 0,327 12,46 12,46 6,58 2,31	100 100 100 100 150 mg mg mg mg mg effects on workers	Remarks / Observation SKIN SKIN SKIN SKIN J/I J/I J/kg J/kg Acute	ons	bw/d Chronic

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ETHYL SILICATE Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLEP	FRA	85	10				
VLEP	ITA	44	5				
WEL	GBR	44	5				
OEL	EU	44	5				
TLV-ACGIH		85	10				

METANOLO Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min	1	Remarks / Observatior	ns	
		mg/m3	ppm	mg/m3	ppm			
VLEP	FRA	260	200	1300	1000	SKIN	11	
VLEP	ITA	260	200			SKIN		
WEL	GBR	266	200	333	250	SKIN		
OEL	EU	260	200					
TLV-ACGIH		262	200	328	250	SKIN		

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.

Acetone

Biological index of exposure:

Components with biological limit values: CAS: 67-64-1 acetone

IBE (ACGIH 2019) 25 mg / I

Samples: urine

Time of withdrawal: at the end of the shift

Biological indicator: acetone

Notes: the biological indicator is not specific, since it is also possible to detect its presence after exposure to other chemicals.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Acetone

Respiratory protection:

for short exposures or in the event of an accident: filter devices, type AX (EN 371). Having a breathing apparatus that does not depend on circulating air ready for emergencies.

Hand protection:

protective gloves compliant with EN 374.

Glove material: butyl rubber (butyl rubber) - layer thickness> = 0.5 mm.

Breakthrough time:> 480 min.

Observe the glove manufacturer's instructions regarding penetrability and breakthrough time.

Eye protection:

hermetically sealed safety goggles according to EN 166.

Body protection:

use solvent resistant protective clothing.

Recommendation:

flame retardant, antistatic protective clothing. safety shoes according to EN 345-347.

General protection and hygiene measures

Wash hands before breaks and after work. Avoid contact with skin and eyes. Do not eat, drink or smoke during use. Have an eye wash bottle or eye rinse ready at work.

Alternatives to the following personal protective measures can only be determined in consultation with a responsible safety expert.

XYLENE (MIXTURE OF ISOMERS)

Protect your hands with nitrile latex gloves compliant with EN 374-1: 2016.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquid
Colour colourless
Odour solvent

Odour threshold Not determined pH Not determined Melting point / freezing point Not determined

Initial boiling point > 35 °C

Boiling range Not determined

Flash point < 23 °C

Evaporation rate Not determined Flammability (solid, gas) not applicable Lower inflammability limit Not available Upper inflammability limit Not available

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Lower explosive limit

Upper explosive limit

Vapour pressure

Vapour density

Relative density

Not available

Not determined

Not determined

Not determined

O,800 - 0,990 g/cc

Solubility

immiscible

Partition coefficient: n-octanol/water Not determined
Auto-ignition temperature Not determined
Decomposition temperature Not determined
Viscosity Not determined
Explosive properties not determined
Oxidising properties not determined

9.2. Other information

VOC (Directive 2010/75/EC): 94,22 % - 769,72 g/litre
VOC (volatile carbon): 60,47 % - 494,01 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.

2-BUTOXYETHANOL

Decomposes under the effect of heat.

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.

Acetone

Risk of explosion on contact with: bromine trifluoride, fluorine dioxide, hydrogen peroxide, nitrosyl chloride, 2-methyl-1,3-butadiene, nitromethane, nitrosyl perchlorate. May react dangerously with: potassium tert-butoxide, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulfur dioxide, chromium trioxide, cromyl chloride, nitric acid, chloroform, peroxymonosulfuric acid, phosphorus oxychloride, chromosulfuric acid, fluorine, strong oxidizing agents, strong reducing agents. Develop flammable gases in contact with: nitrosyl perchlorate.

XYLENE (MIXTURE OF ISOMERS)

Stable under normal conditions of use and storage Reacts violently with: strong oxidants, strong acids, acid nitric, perchlorates.May form explosive mixtures with: air.

ETHYLBENZENE

Reacts violently with: strong oxidants. Attacks various types of plastic materials. May form explosive mixtures with: air.

2-BUTOXYETHANOL

May react dangerously with: aluminium,oxidising agents. Forms peroxides with: air.

10.4. Conditions to avoid

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

Acetone

Avoid exposure to: heat sources, open flames.

2-BUTOXYETHANOL

Avoid exposure to: sources of heat,naked flames.

10.5. Incompatible materials

Acetone

Incompatible with: acids, oxidizing substances.

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.

Acetone

It can develop: ketene, irritants.

ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

2-BUTOXYETHANOL May develop: hydrogen.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ETHYL SILICATE

Effetti acuti:

Effetti fortemente irritativi dei vapori concentrati e della sostanza liquida sulle mucose e sulla pelle.

Effetti cronici:

Oltre alle indicazioni di effetti irritativi, non sono disponibili informazioni specifiche sulla sostanza nell'uomo.

Metabolism, toxicokinetics, mechanism of action and other information

Acetone

Acetone appears in the human and mammalian organisms as an endogenous product of normal metabolism with considerably increased levels during altered physiological states.

Acetone from dermal, inhaled and oral exposure is rapidly absorbed. Relative airway absorption was approximately 50% in humans. It passes into the blood within a few minutes. Acetone is not selectively absorbed into any tissue but is more evenly distributed in body water.

The metabolic fate of exogenous acetone is independent of the pathway of absorption and involves three separate low-dose gluconeogenic pathways with acetol (1-hydroxyacetone), methylglyoxal and 1,2-propanediol as intermediates. Both methylglyoxal and propanediol are oxidized to pyruvate, which is the basic component for the biosynthesis of many endogenous biochemicals. At high doses, an alternating metabolic pathway appears with cleavage of 1,2-propanediol to acetate and formate. The elimination of acetone is effective even at high internal doses and occurs through metabolic transformation to endogenous biochemical substances, such as acetone vapor through the airways and skin surface, through the exhalation of CO2 and into the urine as acetone or acetol, methylglyoxal or as D-lactoyl-GSH. The acetone turnover rates were linear up to a plasma concentration of 5 mM (260 mg / L) with a turnover rate of ca. 9 µmol / kg bw / min = approx. 0.52 mg / kg of body weight / minute corresponding to a daily turnover of 750 mg / kg of body weight / day. Studies with repeated daily exposures of 6 or 8 hours have confirmed that bioaccumulation is not expected to occur until approx. 1,000 ppm (approximately 2,400 mg / m3 for 8 h / day 5 d / w) in humans and during 14 days of daily exposure in rats up to 11,000 ppm (26,550 mg / m3). For oral application to rats as a single bolus by gavage, the elimination of acetone appears to be saturated when blood levels rise above 300-400 mg / L corresponding to a dose of approximately 200 mg / kg body weight.

Source ECHA

Information on likely routes of exposure

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

METHANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

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

ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispesl). Is irritating for skin, conjunctiva and respiratory tract.

XYLENE (MIXTURE OF ISOMERS)

Toxic action on the central nervous system (encephalopathies); irritant action on the skin, conjunctiva, cornea and respiratory system.

The minimum lethal dose to humans by ingestion is considered in the range from 300 to 1000 mg / kg. Ingestion of 4-10 ml of the substance can cause permanent blindness (IPCS) in adult humans.

Interactive effects

XYLENE (MIXTURE OF ISOMERS)

Alcohol intake interferes with the metabolism of the substance, inhibiting it. Consumption of ethanol (0.8 g / kg) before 4-hour exposure to xylenes vapors (145 and 280 ppm) causes a 50% decrease in metilippuric acid excretion, while the blood concentration of xylenes rises about 1.5-2 times. At the same time there is an increase in side effects secondary to ethanol. The metabolism of xylenes is enhanced by phenobarbital and 3-methyl-colanthrene-type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with glycine, which results in a decrease urinary excretion of metilippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

> 20 mg/l

ATE (Oral) of the mixture:

>2000 mg/kg

ATE (Dermal) of the mixture:

>2000 mg/kg

Xilene, miscela di isomeri LD50 (Oral) 3523 mg/kg Ratto LD50 (Dermal) 4350 mg/kg Coniglio LC50 (Inhalation) 26 mg/l/4h Ratto

Xilene, miscela di isomeri LD50 (Oral) 3523 mg/kg Ratto LD50 (Dermal) 2000 mg/kg Coniglio LC50 (Inhalation) 27,541 mg/l/4h Ratto

METANOLO

LD50 (Oral) 100 mg/kg Ratto LD50 (Dermal) 300 mg/kg Ratto LC50 (Inhalation) 3 mg/l/4h Ratto

ETHYLBENZENE

LD50 (Oral) 3500 mg/kg Rat LD50 (Dermal) 15354 mg/kg Rabbit LC50 (Inhalation) 17,2 mg/l/4h Rat

2-BUTOXYETHANOL

LD50 (Oral) 1300 mg/kg Rat LD50 (Dermal) > 2000 mg/kg Rabbit

LC50 (Inhalation) 450 ppm/4h Rat

Acetone

LD50 (Oral) 5800 mg/kg Rat LD50 (Dermal) 7426 mg/kg Rat LC50 (Inhalation) 76 mg/l/4h Rabbit

ETHYL SILICATE

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LC50 (Inhalation) 1,5 mg/l Conversion into point estimate of acute toxicity

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

The ACGIH classifies acetone as A4, that is, not classifiable as a human carcinogen: An agent that suggests that it may be carcinogenic to humans but which cannot be definitively assessed due to insufficient data. In vitro or animal studies do not provide sufficient carcinogenicity indications to classify the agent in one of the other categories.

XYLENE (MIXTURE OF ISOMERS)

Classified in group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer

The US Environmental Protection Agency (EPA) argues that "the data was found to be inadequate for a potential assessment carcinogenic".

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000). Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

SECTION 12. Ecological information

12.1. Toxicity

Xilene, miscela di isomeri

LC50 - for Fish > 2,6 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea > 8500 mg/l/48h Palaemonetes pugio

EC50 - for Algae / Aquatic Plants 4,36 mg/l/72h Pseudokirchnerella subcapitata

2-BUTOXYETHANOL

LC50 - for Fish 1474 mg/l/96h Oncorhynchus mykiss

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EC50 - for Crustacea 1550 mg/l/48h Daphnia magna

Acetone

LC50 - for Fish 5540 mg/l/96h Lepomis macrochirus

EC50 - for Crustacea 8800 mg/l/48h Daphnia pulex

Chronic NOEC for Crustacea 2212 mg/l Daphnia magna

, 28 d

12.2. Persistence and degradability

Xilene, miscela di isomeri

Solubility in water 100 - 1000 mg/l

Degradability: information not available

Xilene, miscela di isomeri

Solubility in water 60 mg/l ASTM E1148

Degradability: information not available

METANOLO

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

ETHYLBENZENE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

2-BUTOXYETHANOL

Solubility in water 900 g/l 20°C

Rapidly degradable

Acetone

Rapidly degradable

ETHYL SILICATE

Solubility in water 1000 - 10000 mg/l

Rapidly degradable

12.3. Bioaccumulative potential

Xilene, miscela di isomeri

Partition coefficient: n-octanol/water 3,12 BCF 25,9

Xilene, miscela di isomeri

Partition coefficient: n-octanol/water 3,16 BCF 25,9

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METANOLO

Partition coefficient: n-octanol/water -0,77
BCF 0.2

ETHYLBENZENE

Partition coefficient: n-octanol/water 3,6

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

Acetone

Partition coefficient: n-octanol/water -0,24 BCF 3

ETHYL SILICATE

Partition coefficient: n-octanol/water 3,18 Log Kow 40°C

BCF 3,16

12.4. Mobility in soil

Xilene, miscela di isomeri

Partition coefficient: soil/water 2,73

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

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

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, 1263

IATA:

14.2. UN proper shipping name

ADR / RID: PAINT RELATED MATERIAL

IMDG: PAINT RELATED MATERIAL

IATA: PAINT RELATED MATERIAL

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14.3. Transport hazard class(es)

ADR / RID:

Class: 3

Label: 3

IMDG:

Class: 3

Label: 3

IATA:

IATA:

Class: 3

Label: 3



14.4. Packing group

ADR / RID, IMDG,

П

14.5. Environmental hazards

ADR / RID:

NO

IMDG: IATA:

NO NO

14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 33

Limited

Tunnel restriction

Quantities: 5

code: (D/E)

Special Provision: 640D

IMDG:

EMS: F-E, <u>S-E</u>

Limited

Quantities: 5

IATA:

Special Instructions:

Maximum

Packaging quantity: 60 L instructions:

364

353

Pass.:

Cargo:

Maximum quantity: 5 L Packaging instructions:

A3, A72, A192

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: P5c

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

Product

Point

3 - 40

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (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 Xilene, miscela di isomeri

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
Acute Tox. 3 Acute toxicity, category 3

STOT SE 1 Specific target organ toxicity - single exposure, category 1

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

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

Aquatic Chronic 3 Hazardous to the aquatic environment, chronic toxicity, category 3

H225 Highly flammable liquid and vapour.H226 Flammable liquid and vapour.

H301 Toxic if swallowed.H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H370 Causes damage to organs.
 H302 Harmful if swallowed.
 H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H304 May be fatal if swallowed and enters airways.

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

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.H336 May cause drowsiness or dizziness.

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H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- 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
- Regulation (EU) 2015/830 of the European Parliament
- Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 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)
- 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 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

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chemical-physical properties are reported in section 9.

laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products. CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12. Changes to previous review: The following sections were modified: 02 / 03 / 08 / 09 / 10 / 11 / 12 / 15 / 16.