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According to An	Safety Data Sheet nex II to REACH - Regulation 2020/878 and to Annex II to UK	REACH
SECTION 1. Identification of the	substance/mixture and of the company/un	idertaking
1.1. Product identifier Code: Product name	159608 - 159762 CAT per HYDROGUARD Primer / Midcoat	
1.2. Relevant identified uses of the substance Intended use Hardener for two	e or mixture and uses advised against o components water based paint.	
1.3. Details of the supplier of the safety data s Name Full address District and Country	sheet Ti.Pi.Ci. S.a.s. Via Val Lerone, 21 16011 Arenzano (GE) Italy	
	Tel. +39 010 9111368	
a mail address of the competent person	Fax +39 010 9134188	
e-mail address of the competent person responsible for the Safety Data Sheet	laboris@tipici.net	
1.4. Emergency telephone number For urgent inquiries refer to	Centro Antiveleni di Bergamo +39800883300 (Azier Bergamo) Centro Antiveleni di Firenze +39055/7947819 (CAV Centro Antiveleni di Foggia +39800183459 (Az. Osp Centro Antiveleni di Milano +3902/66101029 (CAO (Milano) Centro Antiveleni di Napoli +39081/5453333 (CAV C Centro Antiveleni di Pavia +390382/24444 (CAV IRC Centro Antiveleni di Roma +3906/3054343 (CAV Po Centro Antiveleni di Roma +3906/49978000 (CAV Po Centro Antiveleni di Roma +3906/68593726 (CAV O Roma) Centro Antiveleni di Verona +39800011858 (Aziend	Ospedale Careggi - Firenze) o. Univ. Foggia - Foggia) Ospedale Niguarda Cà Granda - Ospedale Cardarelli - Napoli) CCS Fondazione Maugeri - Pavia) liclinico Gemelli - Roma) oliclinico Umberto I - Roma) osp. Pediatrico Bambino Gesù -
	Centro Antivereni di verona +330000 11038 (Aziena	a Ospeualiera integrata - verolia)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:		
Skin corrosion, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.

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0 0 1 -h -l -l		
2.2. Label elements		
Hazard labelling pursuan	t to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.	
Hazard pictograms:	^	
F		
<u>~</u> &		
	\mathbf{V}	
Signal words:	Danger	
Signal words.	Danger	
Hazard statements:		
1244	Causas severa skip hurps and eve demore	
H314 H317	Causes severe skin burns and eye damage. May cause an allergic skin reaction.	
Precautionary statements	S:	
P260 P305+P351+P338	Do not breathe dust / fume / gas / mist / vapours / spray. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses	s, if present and easy to do. Continue
P303+P361+P353	rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with	n water [or shower].
P280 P310 P264	Wear protective gloves/ protective clothing / eye protection / face protection. Immediately call a POISON CENTER / doctor / Wash with fresh water thoroughly after handling.	
Contains:	Adduct of aliphatic polyamines 3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE	
	MALEIC ANHYDRIDE	
	Fatty acids, C14-18 and C16-18-unsatd., maleated 2.2'-DIAMINODIETHYLAMINE	
2.3. Other hazards		
On the basis of available	data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.	
The product does not co	ntain substances with endocrine disrupting properties in concentration $\ge 0.1\%$.	
SECTION 3. Con	nposition/information on ingredients	
3.2. Mixtures		
Contains:		
Identification	x = Conc. % Classification (EC) 1272/2008 (CLP)	
Adduct of aliphatic po	blyamines	

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INDEX -	4,5 ≤ x < 5	Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens.	1 H317
EC 500-101-4			
CAS 38294-64-3			
REACH Reg. 02-2119668117-34-			
0000 3-AMINOMETHYL 3,5,5-			
TRIMETHYLCYCLOHEXYLAMINE			
INDEX 612-067-00-9	3 ≤ x < 3,5	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. H317	1 H318, Skin Sens. 1A
EC 220-666-8		Skin Sens. 1A H317: ≥ 0,001%	
CAS 2855-13-2		LD50 Oral: 1030 mg/kg	
REACH Reg. 01-2119480150-50-			
XXXX 2-BUTOXYETHANOL			
INDEX 603-014-00-0	2,5≤x< 3	Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H	H319 Skin Irrit 2 H315
EC 203-905-0	2,0 = X + 0	LD50 Oral: 1200 mg/kg, LC50 Inhalation vapours: 3	
CAS 111-76-2			
2,2'-DIAMINODIETHYLAMINE			
INDEX 612-058-00-X	0,5≤x< 1	Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1	B H314 Eve Dam 1
	0,0 = X + 1	H318, Skin Sens. 1 H317	
EC 203-865-4		LD50 Oral: 1140 mg/kg, LD50 Dermal: 1045 mg/kg	
CAS 111-40-0			
REACH Reg. 01-2119473793-27- 0006			
Fatty acids, C14-18 and C16-18-			
unsatd., maleated INDEX -	0,1 ≤ x < 0,2	Skin Irrit. 2 H315, Skin Sens. 1 H317	
EC 288-306-2	-, -,	, -	
CAS 85711-46-2			
REACH Reg. 01-2119976378-19-			
XYLENE (MIXTURE OF ISOMERS)	01575 02	Flow Line 2 H226 Agute Tey, 4 H212 Agute Tey, 4	4222 Skip Irrit 2 4215
INDEX 601-022-00-9	0,1 ≤ x < 0,2	Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 Classification note according to Annex VI to the CLF	
EC 215-535-7		STA Dermal: 1100 mg/kg, STA Inhalation vapours:	
CAS 1330-20-7			
ETHYLBENZENE			
INDEX 601-023-00-4	0 ≤ x < 0,1	Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 I	H304, STOT RE 2 H373
EC 202-849-4		LC50 Inhalation vapours: 17,2 mg/l/4h	
CAS 100-41-4			
2-ETHYLESANOL			
INDEX -	0 ≤ x < 0,1	Eye Irrit. 2 H319, Skin Irrit. 2 H315	
EC 203-234-3			
CAS 104-76-7			
QUARTZ			
INDEX -	0 ≤ x < 0,1	STOT RE 2 H373	
EC 238-878-4			
CAS 14808-60-7			
MALEIC ANHYDRIDE			
INDEX 607-096-00-9	0,001 ≤ x < 0,1	Acute Tox. 4 H302, STOT RE 1 H372, Skin Corr. 1E	3 H314, Eye Dam. 1
		H318, Resp. Sens. 1 H334, Skin Sens. 1A H317, El	

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EC 203-571-6 CAS 108-31-6 Skin Sens. 1A H317: ≥ 0,001% LD50 Oral: 400 mg/kg

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products.

5.3. Advice for firefighters

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

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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.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte.
		MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher
		Arbeitsstoffe, Mitteilung 56
ESP	España	Límites de exposición profesional para agentes químicos en España 2021
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
 GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OELEU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983;
		Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive
		2004/37/EC: Directive 2000/39/EC: Directive 98/24/EC: Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

2-BUTOXYETHANOL

Inreshold Limit Value					
Туре	Country	TWA/8h	STEL/15min	Remarks / Observations	
				Observations	

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		mg/m3	ppm	mg/m3	ppm			
AGW	DEU	49	10	98 (C)	20 (C)	SKIN		
MAK	DEU	49	10	98	20	SKIN	Hinweis	
VLA	ESP	98	20	245	50	SKIN		
VLEP	FRA	49	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					

2,2'-DIAMINODIETHYLAMINE

Threshold Limit Value								
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
VLA	ESP	4,3	1			SKIN		
VLEP	FRA	4	1					
WEL	GBR	4,3	1			SKIN		
TLV-ACGIH		4,2	1			SKIN		

XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Val	ue						
Туре	Country	TWA/8h	TWA/8h		I	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	440	100	880	200	SKIN	
MAK	DEU	440	100	880	200	SKIN	
VLA	ESP	221	50	442	100	SKIN	
VLEP	FRA	221	50	442	100	SKIN	
VLEP	ITA	221	50	442	100	SKIN	
WEL	GBR	220	50	441	100	SKIN	
OEL	EU	221	50	442	100	SKIN	
TLV-ACGIH			20				

ETHYLBENZENE

Threshold Limit Val	ue						
Туре	Country	TWA/8h	TWA/8h STEL/15		l	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	88	20	176	40	SKIN	
MAK	DEU	88	20	176	40	SKIN	
VLA	ESP	441	100	884	200	SKIN	
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				

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2-ETHYLESANOL							
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm	Oborvations	
OEL	EU	5,4	1				
QUARTZ							
Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
VLA	ESP		0,05			RESP	
VLEP	FRA	0,1				RESP	
VLEP	ITA	0,1				RESP	
OEL	EU	0,1				RESP	
TLV-ACGIH		0,025				RESP	
MALEIC ANHYDRIDE							
Threshold Limit Value Type	Country	TWA/8h		STEL/15min		Remarks /	
.)po	country					Observations	
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	0,081	0,02	0,081 (C)	0,02 (C)		
MAK	DEU	0,081	0,02	0,081 (C)	0,02 (C)		C = 0,20 mg/m3
VLA	ESP	0,4	0,1				
VLEP	FRA			1			
WEL	GBR	1		3			
TLV-ACGIH		0,01	0,0025			INHAL	

Legend:

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

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.

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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, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (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 137). 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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	beige	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	0 °C	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	> 65 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
рН	not available	
Kinematic viscosity	not available	
Solubility	partially soluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,49 (+-) 0,050	
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

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VOC (Directive 2010/75/EU) 4,08 % - 60,74 g/litre	
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VOC (volatile carbon) 2,49 % - 37,16 g/litre	
SECTION 10. Stability and reactivity	
0.1. Reactivity	
here are no particular risks of reaction with other substances in normal conditions of use.	
BUTOXYETHANOL	
ecomposes under the effect of heat.	
0.2. Chemical stability	
he product is stable in normal conditions of use and storage.	
0.3. Possibility of hazardous reactions	
o hazardous reactions are foreseeable in normal conditions of use and storage.	
AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE	
ay react dangerously with: strong oxidising agents,concentrated inorganic acids.	
BUTOXYETHANOL	
ay react dangerously with: aluminium,oxidising agents.Forms peroxides with: air.	
YLENE (MIXTURE OF ISOMERS)	
table in normal conditions of use and storage.Reacts violently with: strong oxidants,strong acids,nitric acid,pe ith: air.	erchlorates.May form explosive mixture
THYLBENZENE	
eacts violently with: strong oxidants.Attacks various types of plastic materials.May form explosive mixtures with:	air.
0.4. Conditions to avoid	
one in particular. However the usual precautions used for chemical products should be respected.	
AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE	
void contact with: strong acids,strong oxidants.	
BUTOXYETHANOL	
void exposure to: sources of heat,naked flames.	
0.5. Incompatible materials	
formation not available	

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0.6. Hazardous decomposition products		
2-BUTOXYETHANOL		
/lay develop: hydrogen.		
ETHYLBENZENE		
May develop: methane,styrene,hydrogen,ethane.		
SECTION 11. Toxicological information		
n the absence of experimental data for the product itself, health hazards are evaluated according to the p he criteria specified in the applicable regulation for classification. t is therefore necessary to take into account the concentration of the individual hazardous substances indice from a few payment of the product.		
he criteria specified in the applicable regulation for classification.		
he criteria specified in the applicable regulation for classification. t is therefore necessary to take into account the concentration of the individual hazardous substances indic offects of exposure to the product.		
he criteria specified in the applicable regulation for classification. t is therefore necessary to take into account the concentration of the individual hazardous substances indic ffects of exposure to the product. II.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Metabolism, toxicokinetics, mechanism of action and other information		
he criteria specified in the applicable regulation for classification. t is therefore necessary to take into account the concentration of the individual hazardous substances indic effects of exposure to the product. 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 <u>Metabolism, toxicokinetics, mechanism of action and other information</u> Information not available		
he criteria specified in the applicable regulation for classification. t is therefore necessary to take into account the concentration of the individual hazardous substances indic iffects of exposure to the product. 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 <u>Metabolism, toxicokinetics, mechanism of action and other information</u> Information not available <u>Information on likely routes of exposure</u> <u>KYLENE (MIXTURE OF ISOMERS)</u> WORKERS: inhalation; contact with the skin.	cated in section 3, to evaluate the toxicologica	
he criteria specified in the applicable regulation for classification. t is therefore necessary to take into account the concentration of the individual hazardous substances individual fields of exposure to the product. 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Metabolism, toxicokinetics, mechanism of action and other information Information not available Information on likely routes of exposure (YLENE (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.	cated in section 3, to evaluate the toxicologica	

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 (IspesI). Is irritating for skin, conjunctiva and respiratory tract.

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nteractive effects		
(145 and 280 ppm) causes a 50% reduction in the ex 1.5-2 times. At the same time there is an increase phenobarbital and 3-methyl-colantrene type enzyme	e substance, inhibiting it. Ethanol consumption (0.8 g/kg) be ccretion of methyl hippuric acid, whereas the concentration e in the secondary side effects of the ethanol. The met inducers. Aspirin and xylenes mutually inhibit their conjug Other industrial products can interfere with the metabolism	of xylenes in the blood increases approx. tabolism of the xylenes is increased by jation with the glycine, which results in a
ACUTE TOXICITY		
ATE (Inhalation - vapours) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:	> 20 mg/l >2000 mg/kg Not classified (no significant component)	
3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYL	AMINE	
LD50 (Oral):	1030 mg/kg	
2-BUTOXYETHANOL		
LD50 (Oral): LC50 (Inhalation vapours):	1200 mg/kg Guinea pig 3 mg/l/4h Rat	
2,2'-DIAMINODIETHYLAMINE		
LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	1045 mg/kg Rabbit 1140 mg/kg Rat 1,8 mg/l/4h Rat	
XYLENE (MIXTURE OF ISOMERS)		
LD50 (Dermal): STA (Dermal):	4350 mg/kg Rabbit 1100 mg/kg estimate from table 3.1.2 of Annex (figure used for calculation of the acute toxicity	
LD50 (Oral): LC50 (Inhalation vapours):	3523 mg/kg Rat 26 mg/l/4h Rat	
ETHYLBENZENE		
LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours):	15354 mg/kg Rabbit 3500 mg/kg Rat 17,2 mg/l/4h Rat	
MALEIC ANHYDRIDE		
LD50 (Dermal): LD50 (Oral):	610 mg/kg Rat 400 mg/kg Rat	
SKIN CORROSION / IRRITATION		
Corrosive for the skin		

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ERIOUS EYE DAMAGE / IRRITATION	
auses serious eye damage	
ESPIRATORY OR SKIN SENSITISATION	
ensitising for the skin	
ERM CELL MUTAGENICITY	
oes not meet the classification criteria for this hazard class	
ARCINOGENICITY	
oes not meet the classification criteria for this hazard class	

XYLENE (MIXTURE OF ISOMERS) Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC). The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

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

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

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Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

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

SECTION 12. Ecological information

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

12.1. Toxicity

Information not available

12.2. Persistence and degradability

XYLENE (MIXTURE OF ISOMERS)	
Solubility in water	100 - 1000 mg/l
Rapidly degradable ETHYLBENZENE	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable 2-BUTOXYETHANOL	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable MALEIC ANHYDRIDE	
Solubility in water	> 10000 mg/l
Entirely degradable	
2,2'-DIAMINODIETHYLAMINE	
Solubility in water	1000 - 10000 mg/l
Rapidly degradable 3-AMINOMETHYL 3,5,5- TRIMETHYLCYCLOHEXYLAMINE Solubility in water	1000 - 10000 mg/l
NOT rapidly degradable	
12.3. Bioaccumulative potential	
XYLENE (MIXTURE OF ISOMERS)	
Partition coefficient: n-octanol/water	3,12
BCF	25,9

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ETHYLBENZENE Partition coefficient: n-octanol/water	3,6
2-BUTOXYETHANOL Partition coefficient: n-octanol/water	0,81
MALEIC ANHYDRIDE Partition coefficient: n-octanol/water	-2,78
2,2'-DIAMINODIETHYLAMINE Partition coefficient: n-octanol/water	-5,58
12.4. Mobility in soil	
XYLENE (MIXTURE OF ISOMERS) Partition coefficient: soil/water	2,73
2,2'-DIAMINODIETHYLAMINE Partition coefficient: soil/water	3,4

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

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

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

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of

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the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (I.	ATA) regulations.
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. Maritime transport in bulk according to IMO instruments	
Information not relevant	
SECTION 15. Regulatory information	
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture	

Seveso Category - Directive 2012/18/EU: None

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

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prove that the risks related to the
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STOT RE 1 Specific target organ toxicity - repeated exposure, category 1

Acute toxicity, category 4

Acute Tox. 4

Asp. Tox. 1 Aspiration hazard, category 1

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STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Resp. Sens. 1	Respiratory sensitization, category 1
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H312 H332	Harmful in contact with skin.
H372	Harmful if inhaled.
H304	Causes damage to organs through prolonged or repeated exposure.
H373	May be fatal if swallowed and enters airways.
H314	May cause damage to organs through prolonged or repeated exposure. Causes severe skin burns and eye damage.
H314	
H319	Causes serious eye damage. Causes serious eye irritation.
H315	Causes skin irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
EUH071	Corrosive to the respiratory tract.
 ATE: Acute Toxicity Esti CAS: Chemical Abstract CE50: Effective concent CE: Identifier in ESIS (E CLP: Regulation (EC) 12 DNEL: Derived No Effect EmS: Emergency Scheet GHS: Globally Harmoniz IATA DGR: Internationa IC50: Immobilization Co IMDG: International Martiti INDEX: Identifier in Ann LC50: Lethal Concentra LD50: Lethal Concentra LD50: Lethal dose 50% OEL: Occupational Expt PBT: Persistent bioaccu PEC: Predicted environt PEL: Predicted environt PEL: Predicted no effe REACH: Regulation concent TLV: Threshold Limit Va TLV CEILING: Concentt TWA: STEL: Short-term VOC: Volatile organic C 	t Service Number tration (required to induce a 50% effect) iuropean archive of existing substances) 272/2008 t Level tule Zed System of classification and labeling of chemicals I Air Transport Association Dangerous Goods Regulation incentration 50% ittime Code for dangerous goods ime Organization ex VI of CLP tion 50% bosure Level imulative and toxic as REACH Regulation mental Concentration e level ect concentration c) 1907/2006) 1907/2006) ing the international transport of dangerous goods by train alue ration that should not be exceeded during any time of occupational exposure. rerage exposure limit exposure limit

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WGK: Water hazard classes (German).	
ENERAL BIBLIOGRAPHY Regulation (EC) 1907/2006 (REACH) of the European Parliament Regulation (EC) 1272/2008 (CLP) of the European Parliament	

4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament

6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament

7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament

8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament

9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament

11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament

12. Regulation (EU) 2016/1179 (IX Atp. CLP)

13. Regulation (EU) 2017/776 (X Atp. CLP)

14. Regulation (EU) 2018/669 (XI Atp. CLP)

15. Regulation (EU) 2019/521 (XII Atp. CLP)

16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)

17. Regulation (EU) 2019/1148

18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)

19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)

20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)

21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)

22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)

- The Merck Index. - 10th Edition - Handling Chemical Safety

INRS - Fiche Toxicologique (toxicological sheet)

Patty - Industrial Hygiene and Toxicology

N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition

IFA GESTIS website

ECHA website

Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

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

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

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

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

CALCULATION METHODS FOR CLASSIFICATION

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

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

02 / 03 / 08 / 09 / 11 / 12 / 15 / 16.