

FN

Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

SECTION 1. Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier EGLUE B Product name UFI: V4P0-F0G4-400X-D12N 1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Hardener for epoxy glue. **Identified Uses** Industrial Professional Consumer ERC: 8c, 8f. Bonding of mosaic coverings PROC: 19. AC: 4a. PC: 1. LCS: PW. Uses Advised Against Other different uses. 1.3. Details of the supplier of the safety data sheet Name **BISAZZA SPA** Full address Viale Milano 56 District and Country 36075 Alte (VICENZA) Italy Tel. +39 0444 707511 Fax. +39 0444 492088 e-mail address of the competent person safety@bisazza.com responsible for the Safety Data Sheet 1.4. Emergency telephone number For urgent inquiries refer to **United Kingdom National Health Service: 111**

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:		
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic	H412	Harmful to aquatic life with long lasting effects.
toxicity, category 3		

2.2. Label elements

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

Hazard pictograms:





EN

SECTION 2. Hazar	ds identification / >>	
Signal words:	Danger	

Hazard statements:	
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement	S
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing / eye protection / face protection.
P302+P352	IF ON SKIN: wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or a doctor.
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
Contains:	REACTION PRODUCT OF FATTY ACIDS, C18 ALKYL WITH AMINES,
	POLYETHYLENEPOLITETRAETHYLENEPENTAMINE FRACTION
	3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE
	4-MORPHOLYCARBALDEHYD

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration >= 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:			
Identification	x = Conc	.% Class	sification (EC) 1272/2008 (CLP)
REACTION P FRACTION	RODUCT OF FATTY	ACIDS, C18 ALKYL	WITH AMINES, POLYETHYLENEPOLITETRAETHYLENEPENTAMINE
CAS		21 ≤ x < 22,5	Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC INDEX	701-046-0		
REACH Reg.	01-2119972321-42		
3- AMINOMET	HYL 3,5,5-TRIMETH	YLCYCLOHEXYLAM	INE
CAS	2855-13-2	2,5 ≤ x < 3	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317
EC	220-666-8		Skin Sens. 1A H317: ≥ 0,001%
INDEX	612-067-00-9		LD50 Oral: 1030 mg/kg
REACH Reg.	01-2119514687-32		
4-MORPHOL	(CARBALDEHYD		
CAS	4394-85-8	0,1 ≤ x < 0,15	Skin Sens. 1B H317
EC	224-518-3		
INDEX			
REACH Reg.	01-2119987993-12		

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

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SECTION 4. First aid measures ... / >>

breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

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

If there are no contraindications, spray powder with water to prevent the formation of dust. 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 and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. 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



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SECTION 7. Handling and storage ... / >>

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):

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

REACTION PRODUCT OF FATTY ACIDS, C18 ALKYL WITH AMINES, POLYETHYLENEPOLITETRAETHYLENEPENTAMINE FRACTION

Predicted no-effect con	centration	- PNEC						
Normal value in fresh	water					0,00263	mg/l	
Normal value in marin	e water					0,00026	mg/l	
Normal value for fresh	water sedi	ment				263,301	mg/kg	
Normal value for mari	ne water se	diment				26,301	mg/kg	
Normal value for wate	r, intermitte	nt release				0,0263	mg/l	
Normal value of STP	microorgani	sms				7,21	mg/l	
Normal value for the te	errestrial co	mpartment				52,58	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	0,56				
				mg/kg				
Inhalation			VND	0,97			VND	3,9
				mg/m3				mg/m3
Skin			VND	0,56			VND	1,1
				mg/kg				mg/kg

		3-AMINOM	IETHYL 3,5,5-TR	RIMETHYLCYC				
Predicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,06	mg/l	
Normal value in marir	ne water					0,006	mg/l	
Normal value for fresl	h water sedi	ment				5,784	mg/kg	
Normal value for mar	ine water se	diment				0,578	mg/kg	
Normal value for wate	er, intermitte	nt release				0,23	mg/l	
Normal value of STP	microorgani	sms				3,18	mg/l	
Normal value for the	terrestrial co	mpartment				1,121	mg/kg	
Health - Derived no-effe	ect level - D	NEL / DMEL						
	Effects or	n consumers			Effects on workers			
Route of exposure	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral								0,526
								mg/kg
								bw/d
Inhalation					0,073		0,073	
					mg/m3		mg/m3	



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

			4-MORPHOLY	CARBALDE	HYD			
edicted no-effect cor	ncentration	- PNEC						
Normal value in fresh	water					0,5	mg/l	
Normal value in mari	ne water					0,05	mg/l	
Normal value for fres	h water sedi	ment				1,85	mg/kg	
Normal value for mar	ine water se	ediment				0,0764	mg/kg	
Normal value for wate	er, intermitte	ent release				5	mg/l	
Normal value of STP	microorgani	sms				2000	mg/l	
ealth - Derived no-effore Route of exposure		n consumers Acute	Chronic	Chronic	Effects on wor Acute local	kers Acute	Chronic	Chronic
Route of exposure					Acute local			
Oral	local	systemic	local 4,17 mg/kg bw/d	systemic 4,17 mg/kg/d		systemic	local	systemic
Inhalation			13,3 mg/m3	8,93 mg/m3			13,3 mg/m3	50,3 mg/m3
Skin				8 mg/kg/d			0,293 mg/cm2	11,7 mg/kg
				-				bw/d

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

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

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

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

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect your hands with category III nitrile work gloves (ref. Standard EN 374), 0.4 mm thick and permeability time> 480' (e.g. 730 Camatril). For the final choice of the material of the work gloves, the following must be considered: compatibility, degradation, breaking time and permeation.

In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. The gloves have a wear time that depends on the duration and method 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.

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 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.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Informati
Appearance	paste	Temperat
Colour	white	
Odour	amine	
Melting point / freezing point	Not applicable	Reason fo melting by
Initial boiling point	Not applicable	Reason fo boiling on
Flammability	not flammable	Ũ
Lower explosive limit	Not available	Reason fo

Information Temperature: 20 °C

Reason for missing data:product not subject to melting by heating. Reason for missing data:product not subject to boiling on heating.

Reason for missing data:no components with explosive properties

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Reason for missing data:no components with

Method:Brookfield Helipath, S96, 1 rpm

properties

explosive

Concentration: 10 %

Temperature: 20 °C

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

Upper explosive limit	Not available
Flash point	> 110 °C
Auto-ignition temperature	> 300 °C
рН	10
Kinematic viscosity	Not available
Dynamic viscosity	8000 - 9000 Pa·s
Solubility	partially soluble in water
Partition coefficient: n-octanol/water	Not available
Vapour pressure	Not available
Density and/or relative density	1,85 g/cm3
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

VOC (Directive 2010/75/EU)	< 0.01 %	-	< 0.01	g/litre
VOC (volatile carbon)	< 0.01 %	-	< 0.01	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.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

May react dangerously with: strong oxidising agents, concentrated inorganic acids.

10.4. Conditions to avoid

Avoid overheating.

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Avoid contact with: strong acids, strong oxidants.

10.5. Incompatible materials

Acids, acrylates, oxidizing agents, alcohols, aldehydes, halogenated hydrocarbons, ketones, epoxides, nitrites.

10.6. Hazardous decomposition products

Information not available

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 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

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SECTION 11. Toxicological information/>>

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

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

REACTION PRODUCT OF FATTY ACIDS, C18 ALKYL WITH AMINES, POLYETHYLENEPOLITETRAETHYLENEPENTAMINE FRACTION LD50 (Oral): > 2000 mg/kg Rat, f LD50 (Dermal): > 2000 mg/kg Rat

3- AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE LD50 (Oral): 1030 mg/kg

4-MORPHOLYCARBALDEHYD LD50 (Oral): LD50 (Dermal): LC50 (Inhalation vapours):

7314 mg/kg Ratto 18400 mg/kg Coniglio 5,319 mg/l/4h Ratto

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Respiratory sensitization

Information not available

Skin sensitization

Information not available

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

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Information not available

Effects on or via lactation

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SECTION 11. Toxicological information .../>>

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Target organs

Information not available

Route of exposure

Information not available

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

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYI	
LC50 - for Fish	110 mg/l/96h
EC50 - for Crustacea	23 mg/l/48h
EC50 - for Algae / Aquatic Plants	50 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	3 mg/l
REACTION PRODUCT OF FATTY ACIDS, C18 AL	KYL WITH AMINES, POLYETHYLENEPOLITETRAETHYLENEPENTAMINE FRACTION
LC50 - for Fish	7,07 mg/l/96h Danio rerio
EC50 - for Crustacea	5,18 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	2,63 mg/l/72h Pseudokirchneriella subcapitata
4-MORPHOLYCARBALDEHYD	
LC50 - for Fish	> 500 mg/l/96h Oryzias latipes
EC50 - for Crustacea	> 500 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	23880 mg/l/72h
EC10 for Algae / Aquatic Plants	> 2000 mg/l/72h
Chronic NOEC for Fish	> 1 mg/l
Chronic NOEC for Crustacea	> 1 mg/l
12.2. Persistence and degradability	
3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYI	LAMINE
Solubility in water	1000 - 10000 mg/l
NOT rapidly degradable	



SECTION 12. Ecological information ... / >>

REACTION PRODUCT OF FATTY ACIDS, C18 ALKYL WITH AMINES, POLYETHYLENEPOLITETRAETHYLENEPENTAMINE FRACTION NOT rapidly degradable

12.3. Bioaccumulative potential

3-AMINOMETHYL 3,5,5-TRIMETHYLCYCLOHEXYLAMINE Partition coefficient: n-octanol/water 0,99

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 ≥ 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 the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID 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

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SECTION 14. Transport information ... / >>

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:

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

None

 Product

 Point

 3 - 40

 Contained substance

 Point

 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors Not applicable

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

Substances subject to authorisation (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to Regulation (EU) 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.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017) WGK 2: Hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

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

Acute Tox. 4 Skin Corr. 1B Eye Dam. 1 Skin Irrit. 2	Acute toxicity, category 4 Skin corrosion, category 1B Serious eye damage, category 1 Skin irritation, category 2
Skin Sens. 1A	Skin sensitization, category 1A
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.



SECTION 16. Other information ... / >>

Use descriptor system:		
AC	4a	Stone, plaster, cement, glass and ceramic articles: Large surface area articles
ERC	8c	Widespread use leading to inclusion into/onto article (indoor)
ERC	8f	Widespread use leading to inclusion into/onto article (outdoor)
LCS	PW	Widespread use by professional workers
PC	1	Adhesives, sealants
PROC	19	Manual activities involving hand contact

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term 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) 2020/878 (II Annex of REACH Regulation)
- 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)
- 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

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SECTION 16. Other information ... / >>

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: 01 / 02 / 03 / 07 / 08 / 09 / 11 / 12 / 15 / 16.