according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



Acrylamide ≥98 %, 2x crystalline, extra pure

article number: **7871** Version: **5.0 en** Replaces version of: 10.06.2022 Version: (4)

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

1.1 Product identifier

Identification of the substance	Acrylamide ≥98 %, 2x crystalline, extra pure
Article number	7871
Registration number (REACH)	01-2119463260-48-xxxx
Index number in CLP Annex VI	616-003-00-0
EC number	201-173-7
CAS number	79-06-1

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

e-mail (competent person):

sicherheit@carlroth.de

1.4 Emergency telephone number

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.10	Acute toxicity (oral)	3	Acute Tox. 3	H301
3.1D	Acute toxicity (dermal)	4	Acute Tox. 4	H312
3.1I	Acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315

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Section	Hazard class		Hazard class and category	Hazard statement
3.3	Serious eye damage/eye irritation		Eye Irrit. 2	H319
3.4S	3.45 Skin sensitisation		Skin Sens. 1	H317
3.5	B.5 Germ cell mutagenicity		Muta. 1B	H340
3.6	3.6 Carcinogenicity		Carc. 1B	H350
3.7	3.7 Reproductive toxicity		Repr. 2	H361f
3.9	Specific target organ toxicity - repeated exposure	1	STOT RE 1	H372

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

Pictograms

GHS06, GHS08



Hazard statements

H301 H312+H332 H315 H317 H319 H340 H350 H361f	Toxic if swallowed Harmful in contact with skin or if inhaled Causes skin irritation May cause an allergic skin reaction Causes serious eye irritation May cause genetic defects May cause cancer Suspected of damaging fertility
H361f	Suspected of damaging fertility
H372	Causes damage to organs through prolonged or repeated exposure

Precautionary statements

Precautionary statements - prevention

P201	Obtain special instructions before use
P280	Wear protective gloves/protective clothing/eye protection/face protection

Precautionary statements - response

P302+P352 P304+P340	IF ON SKIN: Wash with plenty of soap and water IF INHALED: Remove person to fresh air and keep comfortable for breathing
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention

For professional users only

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Labelling of packages where the contents do not exceed 125 ml Signal word: Danger

Symbol(s)



H301	Toxic if swallowed.
H317	May cause an allergic skin reaction.
H340	May cause genetic defects.
H350	May cause cancer.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P308+P313	IF exposed or concerned: Get medical advice/attention.

2.3 **Other hazards**

3.1

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

SECTION 3: Composition/information on ingredients

Substances	
Name of substance	Acrylamide
Molecular formula	C ₃ H ₅ NO
Molar mass	71,08 ^g / _{mol}
REACH Reg. No	01-2119463260-48-xxxx
CAS No	79-06-1
EC No	201-173-7
Index No	616-003-00-0

Substance of Very High Concern (SVHC)

Name of substance	CAS No	EC No	Listed in	Remarks
Acrylamide	79-06-1	201-173-7	Candidate list	Carc. A57a Muta. A57b

Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV

Legend

Candidate list

Carc. A57a Carcinogenic (article 57a) Muta. A57b Mutagenic (article 57b)

Substance, Specific Conc. Limits, M-factors, ATE					
Specific Conc. Limits	M-Factors	ATE	Exposure route		
-	-	100 ^{mg} / _{kg} 1.141 ^{mg} / _{kg} >1,5 ^{mg} / _l /4h	oral dermal inhalation: dust/ mist		

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

After contact with skin, wash immediately with plenty of water. In case of skin reactions, consult a physician.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

Following ingestion

Rinse mouth immediately and drink plenty of water. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions (such as skin rashes, hives, asthma or anaphylactic shock), Irritation, Loss of righting reflex, and ataxia, Poisoning effect on central nervous system can cause convulsions, laboured breathing and loss of consciousness

4.3 Indication of any immediate medical attention and special treatment needed

Give sodium sulfate as laxative (1 tablespoon in 1 glass of water).

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO₂)

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains. Take up mechanically.

Advice on how to clean up a spill

Take up mechanically. Control of dust.

Other information relating to spills and releases

Place in appropriate containers for disposal.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation. Use extractor hood (laboratory). Avoid exposure. Avoid dust formation. Clear contaminated areas thoroughly.

Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

Advice on general occupational hygiene

When using do not eat or drink. Thorough skin-cleansing after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place. Keep container tightly closed. Keep in a cool place.

Incompatible substances or mixtures

Observe hints for combined storage.

Protect against external exposure, such as

UV-radiation/sunlight

Consideration of other advice:

Store locked up.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Coun try	Name of agent	CAS No	Identifi- er	TWA [mg/ m³]	STEL [mg/ m³]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
EU	acrylamide	79-06-1	IOELV	0,1			Н	2017/2398/ EU

Notation

 Ceiling-C
 Ceiling value is a limit value above which exposure should not occur

 H
 Absorbed through the skin

 STEL
 Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15minute period (unless otherwise specified)

 TWA
 Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Human health values

Relevant DNELs and other threshold levels							
Endpoint Threshold Protection goal, level route of exposure		Used in	Exposure time				
DNEL	120 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects			
DNEL	120 mg/m ³	human, inhalatory	worker (industry)	acute - local effects			
DNEL	3 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects			

Environmental values

Relevant	Relevant PNECs and other threshold levels				
End- point	Threshold level	Organism	Environmental com- partment	Exposure time	
PNEC	0,032 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)	
PNEC	2 ^{µg} /I	aquatic organisms	marine water	short-term (single instance)	
PNEC	0,2 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)	

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection



hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

NBR (Nitrile rubber)

• material thickness

0,3 mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P3 (filters at least 99,95 % of airborne particles, colour code: White). Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

Environmental exposure controls

Keep away from drains, surface and ground water.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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SECTION 9: Physical and chemical properties

9.1	Information on basic physical and chemical properties			
	Physical state	solid		
	Form	crystalline		
	Colour	white		
	Odour	odourless		
	Melting point/freezing point	84,5 °C at 1.013 hPa (ECHA)		
	Boiling point or initial boiling point and boiling range	232 °C at 1.013 hPa		
	Flammability	this material is combustible, but will not ignite readily		
	Lower and upper explosion limit	not determined		
	Flash point	138 °C		
	Auto-ignition temperature	not determined		
	Decomposition temperature	>175 °C		
	pH (value)	5 – 8 (in aqueous solution: 50 ^g / _l , 20 °C)		
	Kinematic viscosity	not relevant		
	Solubility(ies)			
	Water solubility	2.155 ^g / _l at 30 °C (ECHA)		
	Partition coefficient			
	Partition coefficient n-octanol/water (log value):	-0,9 (pH value: ~7, 20 °C) (ECHA)		
	Vapour pressure	0,009 hPa at 25 °C		
	Density and/or relative density			
	Density	1,13 ^g / _{cm³} at 20 °C		
	Relative vapour density	2,45 (air = 1)		
	Bulk density	~500 ^{kg} / _{m³}		
	Particle characteristics	No data available.		
	Other safety parameters			
	Oxidising properties	none		
9.2	Other information			
	Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant		

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Other safety characteristics:

Temperature class (EU, acc. to ATEX)

T2 Maximum permissible surface temperature on the equipment: 300°C

SECTION 10: Stability and reactivity

10.1 Reactivity

Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

If heated

Vapours may form explosive mixtures with air.

10.2 Chemical stability

Danger of polymerisation.

10.3 Possibility of hazardous reactions

Violent reaction with: Bases, Oxidisers, Peroxides, Sulphuric acid

10.4 Conditions to avoid

UV-radiation/sunlight. Keep away from heat. Decompostion takes place from temperatures above: >175 °C.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5. Peroxides.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Toxic if swallowed. Harmful in contact with skin. Harmful if inhaled.

Acute toxicity					
Exposure route	Endpoint	Value	Species	Method	Source
oral	LD50	354 ^{mg} / _{kg}	rat		ECHA
dermal	LD50	1.141 ^{mg} / _{kg}	rabbit		ECHA

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

May cause cancer.

Reproductive toxicity

Suspected of damaging fertility.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

Data are not available.

• If in eyes

Causes serious eye irritation

• If inhaled

causes slight to moderate irritation

• If on skin

causes skin irritation, May produce an allergic reaction, pruritis, localised redness

Other information

Other adverse effects: Liver and kidney damage, Loss of righting reflex, and ataxia, Poisoning effect on central nervous system can cause convulsions, laboured breathing and loss of consciousness

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute)					
Endpoint	Value	Species	Source	Exposure time	
EC50	98 ^{mg} / _l	aquatic invertebrates	ECHA	48 h	

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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12.2 Persistence and degradability

Theoretical Oxygen Demand (without nitrification): 1,351 $^{mg}/_{mg}$ Theoretical Oxygen Demand (with nitrification): 2,251 $^{mg}/_{mg}$ Theoretical Carbon Dioxide: 1,857 $^{mg}/_{mg}$

Biodegradation

The substance is readily biodegradable.

Process of degradability				
Process	Degradation rate	Time		
biotic/abiotic	100 %	28 d		
oxygen depletion	7,4 %	5 d		

-0,9 (pH value: ~7, 20 °C) (ECHA)

12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

n-octanol/water (log KOW)

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\ge 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

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Properties of waste which render it hazardous

- **HP 4** irritant skin irritation and eye damage
- HP 5 specific target organ toxicity (STOT)/aspiration toxicity
- **HP 6** acute toxicity
- HP7 carcinogenic
- HP 10 toxic for reproduction
- HP 11 mutagenic
- HP 13 sensitising

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1	UN number or ID number	
	ADR	UN 2074
	IMDG-Code	UN 2074
	ICAO-TI	UN 2074
14.2	UN proper shipping name	
	ADR	ACRYLAMIDE, SOLID
	IMDG-Code	ACRYLAMIDE, SOLID
	ICAO-TI	Acrylamide, solid
14.3	Transport hazard class(es)	
	ADR	6.1
	IMDG-Code	6.1
	ICAO-TI	6.1
14.4	Packing group	
	ADR	III
	IMDG-Code	III
	ICAO-TI	III
14.5	Environmental hazards	non-environmentally hazardous acc. to the dan- gerous goods regulations

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information				
Proper shipping name	ACRYLAMIDE, SOLID			
Particulars in the transport document	UN2074, ACRYLAMIDE, SOLID, 6.1, III, (E)			
Classification code	T2			
Danger label(s)	6.1			
Special provisions (SP)	802(ADN)			
Excepted quantities (EQ)	E1			
Limited quantities (LQ)	5 kg			
Transport category (TC)	2			
Tunnel restriction code (TRC)	E			
Hazard identification No	60			
International Maritime Dangerous Goods Code	(IMDG) - Additional information			
Proper shipping name	ACRYLAMIDE, SOLID			
Particulars in the shipper's declaration	UN2074, ACRYLAMIDE, SOLID, 6.1, III			
Marine pollutant	-			
Danger label(s)	6.1			
Excepted quantities (EQ)	E1			
Limited quantities (LQ)	5 kg			
EmS	F-A, S-A			
Stowage category	A			
International Civil Aviation Organization (ICAO	-IATA/DGR) - Additional information			
Proper shipping name	Acrylamide, solid			
Particulars in the shipper's declaration	UN2074, Acrylamide, solid, 6.1, III			
Danger label(s)	6.1			
Excepted quantities (EQ)	E1			
Limited quantities (LQ)	10 kg			

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No

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SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1

Relevant provisions of the European Union (EU)

Restrictions according to REACH, Annex XVII

Dangerous substances with restrictions (REACH, Annex XVII) Name of substance Name acc. to inventory CAS No Restriction 79-06-1 Acrylamide acrylamide R60

Acrylamide	acrylamide	79-06-1	R60	60	
Acrylamide	carcinogenic		R28-30	28	
Acrylamide	germ cell mutagenic (mutagenic)		R28-30	29	
Acrylamide	substances in tattoo inks and perman- ent make-up		R75	75	

Leaend

R28-30 1. Shall not be placed on the market, or used,

as substances

- as constituents of other substances, or, - in mixtures,

for supply to the general public when the individual concentration in the substance or mixture is equal to or greater than:

either the relevant specific concentration limit specified in Part 3 of Annex VI to Regulation (EC) No 1272/2008, or,
 the relevant generic concentration limit specified in Part 3 of Annex I of Regulation (EC) No 1272/2008.
 Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of such substances and mixtures is marked visibly, legibly and indelibly as follows:

'Restricted to professional users'.

2. By way of derogation, paragraph 1 shall not apply to:
(a) medicinal or veterinary products as defined by Directive 2001/82/EC and Directive 2001/83/EC;
(b) cosmetic products as defined by Directive 76/768/EEC;
(c) the following fuels and oil products:
motor fuels which are covered by Directive 98/70/EC,

- mineral oil products intended for use as fuel in mobile or fixed combustion plants,

(d) artists' paints covered by Regulation (EC) No 1272/2008;
(e) the substances listed in Appendix 11, column 1, for the applications or uses listed in Appendix 11, column 2. Where a date is specified in column 2 of Appendix 11, the derogation shall apply until the said date;
(f) devices covered by Regulation (EU) 2017/745.

R60 Shall not be placed on the market or used as a substance or constituent of mixtures in a concentration, equal to or greater than 0,1 % by weight for grouting applications after 5 November 2012.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU





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tattooing purposes.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Legend

9. This entry does not apply to substances that are gases at temperature of 20 °C and pressure of 101,3 kPa, or generate a vapour pressure of more than 300 kPa at temperature of 50 °C, with the exception of formaldehyde (CAS No 50-00-0, EC No 200-001-8).

10. This entry does not apply to the placing on the market of a mixture for use for tattooing purposes, or to the use of a mixture for tattooing purposes, when placed on the market exclusively as a medical device or an accessory to a medical device, within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or an accessory to a medical device, within the same meaning. Where the placing on the market or use may not be exclusively as a medical device or an accessory to a medical device or an accessory to a medical device, the requirements of Regulation (EU) 2017/745 and of this Regulation shall apply cumulatively.

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Substance of Very High Concern (SVHC)

, , ,		· · · ·				
Name acc. to invent- ory	CAS No	Listed in	Remarks	Latest ap- plication date	Sunset date	Date of in- clusion
acrylamide	79-06-1	Candidate list	Carc. A57a Muta. A57b			30.03.2010

Legend

Candidate list Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV Carc. A57a Carcinogenic (article 57a)

Muta. A57b Mutagenic (article 57b)

Seveso Directive

2012/18/EU (Seveso III)					
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements	Notes		
	not assigned				

Deco-Paint Directive

VOC content	100 %
VOC content	1.130 ^g / _l

Industrial Emissions Directive (IED)

VOC content	0 %
VOC content	0 ^g / _l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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t of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Acrylamide	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)	

Legend

a) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

Regulation on persistent organic pollutants (POP)

not listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
PH	PICCS	substance is listed
TR	CICR	substance is listed
TW	TCSI	substance is listed

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Country	Inventory	Status
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed
DSL ECSI IECSC INSQ KECI NCI NZIOC PICCS	IIIC Australian Inventory of Industrial Chemicals ICR Chemical Inventory and Control Regulation ISCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS) ISL Domestic Substances List (DSL) CSI EC Substance Inventory (EINECS, ELINCS, NLP) ECSC Inventory of Existing Chemical Substances NSQ National Inventory of Chemical Substances ECI Korea Existing Chemicals Inventory ICI National Inventory of Chemicals IZIOC New Zealand Inventory of Chemicals and Chemical Substances (PICCS) ICICS Philippine Inventory of Chemicals and Chemical Substances (PICCS) IEACH Reg. REACH registered substances	

15.2 Chemical safety assessment

According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
15.1	VOC content: 100 % 1.130 ^g / _l	VOC content: 100 %	yes
15.1		VOC content: 1.130 ^g / _l	yes
15.1		National inventories: change in the listing (table)	yes
15.2	Chemical Safety Assessment: No Chemical Safety Assessment has been car- ried out for this substance.	Chemical safety assessment: According to REACH, Article 14 (1) a chemical safety assessment has been carried out for this substance or components of this mixture when the substance has been registered in quantities of 10 tonnes or more per year per registrant.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2017/2398/EU	Directive of the European Parliament and of the Council amending Directive 2004/37/EC on the protec- tion of workers from the risks related to exposure to carcinogens or mutagens at work
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
Carc.	Carcinogenicity

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Abbr.	Descriptions of used abbreviations	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
Ceiling-C	Ceiling value	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DNEL	Derived No-Effect Level	
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)	
ED	Endocrine disruptor	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
EmS	Emergency Schedule	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air	
IMDG	International Maritime Dangerous Goods Code	
IMDG-Code	International Maritime Dangerous Goods Code	
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008	
IOELV	Indicative occupational exposure limit value	
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval	
Muta.	Germ cell mutagenicity	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
STEL	Short-term exposure limit	
SVHC	Substance of Very High Concern	
TWA	Time-weighted average	
VOC	Volatile Organic Compounds	
vPvB	Very Persistent and very Bioaccumulative	

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Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.