

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Printing date 19.01.2026

Version number 1

Revision: 21.08.2025

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

- **1.1 Product identifier**
  - **Trade name:** X280-B
  - **UFI:** XAQW-P1FS-89SC-01YJ
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
  - **Product category** PC1 Adhesives, sealants
  - **Application of the substance / the mixture** Hardening agent/ Curing agent
- **1.3 Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**  
HOTTINGER BRÜEL & KJÆR UK LTD  
Advanced Manufacturing Park Technology Centre  
Brunel Way, Catcliffe, Rotherham  
South Yorkshire, S60 5WG  
United Kingdom  
Phone: +44 (0) 1145 512230  
Email: info@uk.hbm.com
  - **Informing department:**  
Tel. +49(0)6131 19240  
EMail support-esa@hbkworl.com
- **1.4 Emergency telephone number:**  
Gift-Informationszentrum Nord, Göttingen  
Poison Information Center, Göttingen  
Tel.: +49 (0)551 19240  
(German and English only)

United Kingdom:  
National Poisons Information Service  
Emergency number: +44 844 892 0111

Poisons Information Centre of Ireland:  
+353 1 837 9964 for medical professionals  
+353 1 809 2166 for public inquiries  
CHEMTREC: +44 20 3807 3798 (24h emergency call).  
Outside continental USA please call CHEMTREC at +1-703-527-3887 (R-calls are accepted).

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
  - **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Muta. 2      H341 Suspected of causing genetic defects.  
Repr. 1B     H360D May damage the unborn child.

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GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

### · 2.2 Label elements

#### · Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

#### · Hazard pictograms



GHS05 GHS07 GHS08

#### · Signal word Danger

#### · Hazard-determining components of labelling:

3,6-diazaoctanethylenediamin

imidazole

phenol

#### · Hazard statements

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H360D May damage the unborn child.

#### · Precautionary statements

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · Additional information:

Please refer to further labelling elements in section 15 of this safety data sheet, if applicable.

Restricted to professional users.

### · 2.3 Other hazards

#### · Results of PBT and vPvB assessment

· PBT: Not applicable

· vPvB: Not applicable

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- **Determination of endocrine-disrupting properties**  
The product does not contain substances with endocrine disrupting properties.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below, possibly with undeclared additives.

- **Dangerous components:**

CAS: 26950-63-0 NLP: 500-055-5	Triethylenetetramine, propoxylated ⚠ Eye Irrit. 2, H319	10 - 50%
CAS: 112-24-3 EINECS: 203-950-6 Index number: 612-059-00-5	3,6-diazaoctanethylenediamin ⚠ Skin Corr. 1B, H314; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥ 10 - < 25%
CAS: 288-32-4 EINECS: 206-019-2 Index number: 613-319-00-0	imidazole ⚠ Repr. 1B, H360D; ⚠ Skin Corr. 1C, H314; ⚠ Acute Tox. 4, H302	≥ 5 - ≤ 10%
CAS: 108-95-2 EINECS: 203-632-7 Index number: 604-001-00-2 Reg.nr.: 01-2119471329-32-X	phenol ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Muta. 2, H341; STOT RE 2, H373; ⚠ Skin Corr. 1B, H314 Specific concentration limits: Skin Corr. 1B; H314: C ≥ 3% Skin Irrit. 2; H315: 1 % ≤ C < 3 % Eye Irrit. 2; H319: 1 % ≤ C < 3 %	1%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information**  
Instantly remove any clothing contaminated by the product.  
If symptoms occur or in case of doubt consult a doctor.  
Personal protection for the First Aider.
- **After inhalation**  
Supply fresh air and call for doctor for safety reasons.  
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact**  
Instantly wash with water and soap and rinse thoroughly.  
Remove contaminated clothing immediately.  
In case of permanent aches and pains please go and see the doctor.
- **After eye contact**  
Rinse opened eye for several minutes under running water. Then consult doctor.  
Remove contact lenses if possible.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; instantly call for medical help.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
Use fire fighting measures that suit the environment.  
Alcohol-resistant foam, extinguishing powder or carbon dioxide. Fight larger fire with water spray.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Inhalation of combustion gases may cause serious health hazards.  
Can be released in case of fire:  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Remove goods in stock from incendiary zone, if possible.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **For non-emergency personnel** Avoid contact with the product.
- **For emergency responders** Put on suitable personal protective equipment.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, ground/soil and water bodies.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
Use neutralising agent.  
Dispose of contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle container with care.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep breathing equipment ready.
- **Handling**  
Do not eat, drink or smoke while working.  
Avoid direct contact with eyes, skin and clothing.  
Keep away from foodstuffs, beverages and food.  
Take off all contaminated clothing immediately.  
Wash contaminated clothing before re-use.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Store container tightly sealed at a cool place.
- **Information about storage in one common storage facility:** Not required
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
WEL: workplace exposure limit  
OEL: Occupational Exposure Limit  
IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

#### 108-95-2 phenol

IOELV (European Union)	Short-term value: 16 mg/m <sup>3</sup> , 4 ppm Long-term value: 8 mg/m <sup>3</sup> , 2 ppm Skin
WEL (Great Britain)	Short-term value: 16 mg/m <sup>3</sup> , 4 ppm Long-term value: 7.8 mg/m <sup>3</sup> , 2 ppm Sk

- **DNELs**

#### 112-24-3 3,6-diazaoctanethylenediamin

Oral	DNEL (consumer, short-term, systemic)	20 mg/kg bw/day (.)
	DNEL (consumer, long-term, systemic)	0.41 mg/kg bw/day (.)
Dermal	DNEL (worker, long-term, systemic)	0.57 mg/kg bw/day (.)
	DNEL (consumer, long-term, systemic)	0.25 mg/kg bw/day (.)
	DNEL (worker, long-term, local)	0.28 mg/cm <sup>2</sup> (.)
Inhalative	DNEL (consumer, long-term, local)	0.43 mg/cm <sup>2</sup> (.)
	DNEL (worker, short-term, systemic)	5,380 mg/m <sup>3</sup> (.)
	DNEL (worker, long-term, systemic)	1 mg/m <sup>3</sup> (.)
	DNEL (consumer, short-term, systemic)	1,600 mg/m <sup>3</sup> (.)
	DNEL (consumer, long-term, systemic)	0.29 mg/m <sup>3</sup> (.)

#### 108-95-2 phenol

Oral	DNEL (consumer, long-term, systemic)	0.5 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	1.23 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	0.5 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	8 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, systemic)	0.452 mg/m <sup>3</sup> (human)
	DNEL (worker, short-term, local)	16 mg/m <sup>3</sup> (human)
	DNEL (worker, long-term, local)	16 mg/m <sup>3</sup> (human)

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- **PNECs**

- 108-95-2 phenol**

PNEC aqua (fresh water)	0.008 mg/L (.)
PNEC Water (marine water)	0.001 mg/L (.)
PNEC STP - Sewage Treatment Plant	2.1 mg/L (.)
PNEC soil	0.136 mg/kg soil dw (.)
PNEC sediment (fresh water)	0.0915 mg/kg sedim. dw (.)
PNEC sediment (marine water)	0.00915 mg/kg sedim. dw (.)
PNEC Water (sporadic release)	0.031 mg/L (.)

- **Additional information:** The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off all contaminated clothing immediately.

Wash hands during breaks and at the end of the work.

Avoid direct contact with eyes, skin and clothing.

Do not eat, drink or smoke while working.

Wash contaminated clothing before re-use.

- **Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

- **Hand protection**



Protective gloves.

Only use chemical-protective gloves with CE-labelling of category III (EN 374).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Recommended material thickness: 0.3 mm, breakthrough time: 480 min.

Nitrile rubber, NBR

Recommended material thickness: 0.33 mm, breakthrough time: 30 min.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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- **Eye/face protection**



Safety goggles according to EN 166.



Face protection

- **Body protection:**



Protective work clothing.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

· <b>Physical state</b>	Liquid
· <b>Colour:</b>	Light brown
· <b>Odour:</b>	Phenol-like
· <b>Odour threshold:</b>	Not determined
· <b>Melting point/freezing point:</b>	Not determined
· <b>Boiling point or initial boiling point and boiling range</b>	107 °C (288-32-4 imidazole)
· <b>Flammability</b>	Not applicable
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	0.1 Vol %
· <b>Upper:</b>	15 Vol %
· <b>Flash point:</b>	135 °C (112-24-3 3,6-diazaoctanethylenediamin)
· <b>Auto-ignition temperature:</b>	300 °C (112-24-3 3,6-diazaoctanethylenediamin)
· <b>Decomposition temperature:</b>	Not determined
· <b>SADT</b>	
· <b>pH</b>	Not determined
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined
· <b>dynamic:</b>	Not determined
· <b>Solubility</b>	
· <b>Water:</b>	Fully miscible
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined
· <b>Vapour pressure at 20 °C:</b>	0 hPa (112-24-3 3,6-diazaoctanethylenediamin)
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C</b>	1.1 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined
· <b>Vapour density</b>	Not determined
· <b>Particle characteristics</b>	No further details.

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- **9.2 Other information**
- **Appearance:**
- **Form:** Fluid
- **Important information on protection of health and environment, and on safety.**
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive.
- **VOC EU**
- **Solids content:** 0.4 %
- **Change in condition**
- **Evaporation rate** Not determined

- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Information on the shelf life** The product is stable.
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
None in case of intended use and storage in compliance with instructions.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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· **LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimates)**

Oral	LD50	2,875 - 6,155 mg/kg
Dermal	LD50	5,589 - 12,855 mg/kg
Inhalative	LC50	50 - 278 mg/l/4h

**112-24-3 3,6-diazaoctanethylenediamin**

Oral	LD50	1,861.9 mg/kg (Rat) (OECD 401)
Dermal	LD50	1,465.4 mg/kg (rabbit) (OECD 402)

**108-95-2 phenol**

Oral	LD50	530 mg/kg (Rat) (OECD 401)
Dermal	LD50	660 mg/kg (Rat) (OECD 402)

· **Primary irritant effect:**

· **Skin corrosion/irritation**

Causes severe skin burns and eye damage.

· **Serious eye damage/irritation** Causes serious eye damage.

· **Respiratory or skin sensitisation** May cause an allergic skin reaction.

· **Germ cell mutagenicity** Suspected of causing genetic defects.

· **Carcinogenicity** Based on available data, the classification criteria are not met.

· **Reproductive toxicity** May damage the unborn child.

· **STOT-single exposure** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

· **Aspiration hazard** Based on available data, the classification criteria are not met.

· **Additional toxicological information:**

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Muta. 2, Repr. 1B

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

## SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

**108-95-2 phenol**

EC50 (static)	3.1 mg/l/48h (Ceriodaphnia dubia) (US EPA)
EC50 (static)	61.1 mg/l/96h (Raphidocelis subcapitata) (US EPA)
LC50 (dynamic)	8.9 mg/l/96h (Oncorhynchus mykiss) (US EPA)

· **12.2 Persistence and degradability** No further relevant information available.

· **Other information:** There are no data available about the preparation.

· **12.3 Bioaccumulative potential** No further relevant information available.

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

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- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**

*Do not allow product to reach ground water, water bodies or sewage system.  
Must not reach sewage water or drainage ditch undiluted or unneutralised.  
Danger to drinking water if even small quantities leak into soil.*

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
The waste code numbers mentioned are recommendations based on the probable use of the product.*

- **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
HP6	Acute Toxicity
HP8	Corrosive
HP10	Toxic for reproduction
HP11	Mutagenic
HP13	Sensitising

- **Uncleaned packagings:**
- **Recommendation:**  
*Dispose of packaging according to regulations on the disposal of packagings.  
Non contaminated packagings can be used for recycling.  
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.*
- **Recommended cleaning agent:** *Water, if necessary with cleaning agent.*

### SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR/RID, IMDG, IATA** UN3267
- **14.2 UN proper shipping name**
- **ADR/RID** 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.
- **IMDG, IATA** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.  
(TRIETHYLENETETRAMINE)

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· **14.3 Transport hazard class(es)**

· **ADR/RID**



- **Class** 8 (C7) Corrosive substances.  
 · **Label** 8

· **IMDG, IATA**



- **Class** 8 Corrosive substances.  
 · **Label** 8

· **14.4 Packing group**

- **ADR/RID, IMDG, IATA** III

- **14.5 Environmental hazards:** Not applicable

· **14.6 Special precautions for user**

- **Warning:** Corrosive substances.  
 · **Kemler Number:** 80  
 · **EMS Number:** F-A, S-B  
 · **Segregation groups** (SGG18) Alkalis  
 · **Stowage Category** A  
 · **Stowage Code** SW2 Clear of living quarters.  
 · **Segregation Code** SG35 Stow "separated from" SGG1-acids

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable

· **Transport/Additional information:**

- **Quantity limitations** On passenger aircraft/rail: 5 L  
 On cargo aircraft only: 60 L

· **ADR/RID**

- **Limited quantities (LQ)** 5L  
 · **Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml  
 · **Transport category** 3  
 · **Tunnel restriction code** E

· **IMDG**

- **Limited quantities (LQ)** 5L  
 · **Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":**

UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC,  
 N.O.S. 8, III

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### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII**  
Taking into account the intended use as specified in section 1, the relevant entries from Annex XVII are carried out.  
Conditions of restriction: 3, 30
- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
None of the ingredients is listed.
- **REGULATION (EU) 2019/1148**
- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**  
None of the ingredients is listed.
- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**  
None of the ingredients is listed.
- **Regulation (EC) No 273/2004 on drug precursors**  
None of the ingredients is listed.
- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**  
None of the ingredients is listed.
- **National regulations**
- **Water hazard class:**
- **Substances of very high concern (SVHC) according to REACH, Article 57**  
None of the ingredients is contained.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet meets the requirements of Regulation (EU) 2015/830 and 2020/878 amending Annex II of Regulation (EC) 1907/2006.

- **Relevant phrases**  
The phrases specified here are no labelling elements for the product but repeat the properties of the ingredients from section 3.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.

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# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

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Version number 1

Revision: 21.08.2025

Trade name: X280-B

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H331 Toxic if inhaled.

H341 Suspected of causing genetic defects.

H360D May damage the unborn child.

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

H412 Harmful to aquatic life with long lasting effects.

- **Classification according to Regulation (EC) No 1272/2008 Calculation method**

- **Department issuing data specification sheet:**



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- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

Repr. 1B: Reproductive toxicity – Category 1B

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- **\* Data compared to the previous version altered.**