

## Safety data sheet

Page: 1/16

BASF safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 24.04.2025 Version: 7.0
Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

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

#### 1.1. Product identifier

## **Pix®**

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

Relevant identified uses: crop protection product, growth regulator

## 1.3. Details of the supplier of the safety data sheet

Company:
BASF SE
67056 Ludwigshafen
GERMANY
Operating Division Crop Protection

Telephone: +49 621 60-27777

E-mail address: Produktinformation-Pflanzenschutz@basf.com

## 1.4. Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

#### **SECTION 2: Hazards Identification**

#### 2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

According to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

to Regulation (EC) No 1907/2006.

Date / Revised: 24.04.2025 Version: 7.0
Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

For the classifications not written out in full in this section the full text can be found in section 16.

#### 2.2. Label elements

According to Regulation (EC) No 1272/2008 [CLP]

#### Globally Harmonized System, EU (GHS)

Hazard Statement:

H412 Harmful to aquatic life with long lasting effects.

EUH401 To avoid risks to human health and the environment, comply with the

instructions for use.

**Precautionary Statement:** 

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste

collection point.

#### 2.3. Other hazards

## According to Regulation (EC) No 1272/2008 [CLP]

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. The product does not fulfill the criteria for PBT (Persistent/bioaccumulative/toxic) and vPvB (very persistent/very bioaccumulative).

## **SECTION 3: Composition/Information on Ingredients**

#### 3.1. Substances

Not applicable

## 3.2. Mixtures

## Chemical nature

crop protection product, growth regulator, Soluble concentrate (SL)

#### Regulatory relevant ingredients

1,1-dimethylpiperidinium chloride; mepiquat chloride

to Regulation (EC) No 1907/2006.

Date / Revised: 24.04.2025 Version: 7.0
Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

Content (W/W): 5 %
CAS Number: 24307-26-4
EC-Number: 246-147-6

Acute Tox. 4 (Inhalation - dust) Acute Tox. 3 (oral)

Aquatic Chronic 3 H332, H301, H412

Acute toxicity estimate:

oral: 270 mg/kg Inhalation: 2.8 mg/l

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

## **SECTION 4: First-Aid Measures**

## 4.1. Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink 200-300 ml of water.

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

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Hazards: (Further) symptoms and / or effects are not known so far Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

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

Treatment: Symptomatic treatment (decontamination, vital functions).

to Regulation (EC) No 1907/2006.

Date / Revised: 24.04.2025 Version: 7.0
Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

## **SECTION 5: Fire-Fighting Measures**

## 5.1. Extinguishing media

Suitable extinguishing media: water spray, foam, dry powder, carbon dioxide

## 5.2. Special hazards arising from the substance or mixture

Endangering substances: hydrogen chloride, Carbon monoxide, Carbon dioxide, nitrogen oxides, halogenated compounds

Advice: The substances/groups of substances mentioned can be released in case of fire.

## 5.3. Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

#### Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

#### **SECTION 6: Accidental Release Measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Do not breathe vapour/spray.

#### 6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

## 6.3. Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

#### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

Date / Revised: 24.04.2025 Version: 7.0
Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

## **SECTION 7: Handling and Storage**

## 7.1. Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

#### 7.2. Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 60 Months

## 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## **SECTION 8: Exposure Controls/Personal Protection**

#### 8.1. Control parameters

Components with occupational exposure limits

24307-26-4: 1,1-dimethylpiperidinium chloride

TWA value 1.56 mg/m3 (BASF recomm. occupational exposure limit)

#### 8.2. Exposure controls

Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:

Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Date / Revised: 24.04.2025 Version: 7.0

Date / Previous version: 03.08.2022 Product: **Pix**®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

Previous version: 6.0

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

## General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Keep away from food, drink and animal feeding stuffs. Store work clothing separately.

## **SECTION 9: Physical and Chemical Properties**

## 9.1. Information on basic physical and chemical properties

State of matter: liquid Form: liquid Colour: pink

Odour: almost odourless

Odour threshold:

Not determined due to potential health hazard by inhalation.

solidification temperature: approx. -2 °C boiling temperature: approx. 100 °C

Information applies to the solvent.

Flammability: not flammable

Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with

the intended use.

Upper explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with

the intended use.

Flash point: (Directive 92/69/EEC, A.9)

No flash point - Measurement made

up to the boiling point.

Auto-ignition temperature: > 600 °C (Directive 92/69/EEC, A.15) Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

pH value: approx. 5 - 7

(20 °C)

(measured with the undiluted

substance)

Viscosity, kinematic: 1 mm2/s (calculated (from dynamic

(20 °C) viscosity))

to Regulation (EC) No 1907/2006.

Date / Revised: 24.04.2025 Version: 7.0 Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

Thixotropy:

Solubility in water:

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

Viscosity, dynamic: 1 mPa.s (OECD Guideline 114)

(20 °C, 100 1/s) not thixotropic fully soluble

Partitioning coefficient n-octanol/water (log Kow):

The statements are based on the

properties of the individual

components.

Information on: 1,1-dimethylpiperidinium chloride

Partitioning coefficient n-octanol/water (log Kow): -3.55

(pH value: 7)

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Vapour pressure: approx. 23 hPa

(20 °C)

Information applies to the solvent.

Density: approx. 1.00 g/cm3 (OECD Guideline 109)

(20 °C)

Relative vapour density (air):

not determined

Particle characteristics

Particle size distribution: The substance / product is marketed or used in a non solid or granular

form. -

#### 9.2. Other information

#### Information with regard to physical hazard classes

**Explosives** 

Explosion hazard: Based on the chemical structure

there is no indication of explosive

properties.

Oxidizing properties

Fire promoting properties: Based on its structural properties

the product is not classified as

oxidizing.

Corrosion to metals

Aluminium

### Other safety characteristics

Other Information: If necessary, information on other physical and chemical parameters is

indicated in this section.

## **SECTION 10: Stability and Reactivity**

#### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

to Regulation (EC) No 1907/2006.

Date / Revised: 24.04.2025 Version: 7.0
Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

Corrosion to metals: Aluminium

## 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

## 10.3. Possibility of hazardous reactions

Corrodes aluminum. No hazardous reactions if stored and handled as prescribed/indicated.

#### 10.4. Conditions to avoid

See SDS section 7 - Handling and storage.

## 10.5. Incompatible materials

Substances to avoid: strong bases, strong acids, strong oxidizing agents

#### 10.6. Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

## **SECTION 11: Toxicological Information**

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

#### Acute toxicity

Assessment of acute toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Information on: 1,1-dimethylpiperidinium chloride; mepiquat chloride

Experimental/calculated data:

LD50 rat (oral): approx. 270 mg/kg (OECD Guideline 401)

ATE (oral): 270 mg/kg

Information on: 1,1-dimethylpiperidinium chloride; mepiquat chloride

Experimental/calculated data:

LC50 rat (by inhalation): > 2.84 mg/l 4 h (OECD Guideline 403)

to Regulation (EC) No 1907/2006.

Date / Revised: 24.04.2025 Version: 7.0 Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

ATE (by inhalation): 2.8 mg/l

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Information on: 1,1-dimethylpiperidinium chloride; mepiquat chloride

Experimental/calculated data:

LD50 rat (dermal): > 1,160 mg/kg (OECD Guideline 402)

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#### <u>Irritation</u>

Assessment of irritating effects:

Not irritating to eyes and skin. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 1,1-dimethylpiperidinium chloride; mepiquat chloride

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (other)

Information on: 1,1-dimethylpiperidinium chloride; mepiquat chloride

Experimental/calculated data:
Serious eye damage/irritation
rabbit: non-irritant (other)

#### Respiratory/Skin sensitization

Assessment of sensitization:

No sensitizing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 1,1-dimethylpiperidinium chloride; mepiquat chloride

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: Non-sensitizing. (OECD Guideline 429)

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## Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

## Carcinogenicity

## Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

## Reproductive toxicity

Assessment of reproduction toxicity:

Date / Revised: 24.04.2025 Version: 7.0
Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

#### **Developmental toxicity**

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Specific target organ toxicity (single exposure)

#### Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organioxicity was observed after repeated administration to animals.

Aspiration hazard

not applicable

#### Interactive effects

No data available.

#### 11.2. Information on other hazards

## Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## Other information

Other relevant toxicity information

Misuse can be harmful to health.

Date / Revised: 24.04.2025 Version: 7.0
Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

## **SECTION 12: Ecological Information**

## 12.1. Toxicity

Assessment of aquatic toxicity:

Harmful to aquatic life with long lasting effects.

Toxicity to fish:

LC50 (96 h) > 100 mg/l, Oncorhynchus mykiss (OECD Guideline 203)

No observed effect concentration (96 h) > 100 mg/l, Oncorhynchus mykiss (OECD Guideline 203)

Aquatic invertebrates:

EC50 (48 h) > 1,000 mg/l, Daphnia magna (Directive 92/69/EEC, C.2)

No observed effect concentration (48 h) 500 mg/l, Daphnia magna (Directive 92/69/EEC, C.2)

Aquatic plants:

EC50 (7 d) 617 mg/l (growth rate), Lemna gibba (OECD Guideline 221)

No observed effect concentration (7 d) 0.5 mg/l (growth rate), Lemna gibba (OECD Guideline 221)

#### 12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on:1,1-dimethylpiperidinium chloride; mepiquat chloride Assessment biodegradation and elimination (H2O):

Readily biodegradable (according to OECD criteria).

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#### 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on:1,1-dimethylpiperidinium chloride; mepiquat chloride Assessment bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

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to Regulation (EC) No 1907/2006.

Date / Revised: 24.04.2025 Version: 7.0
Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

## 12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on:1,1-dimethylpiperidinium chloride; mepiquat chloride

Assessment transport between environmental compartments:

Adsorption in soil: Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

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#### 12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

#### 12.6. Endocrine disrupting properties

Product does not contain a substance above legal limits included in the list established in accordance with Article 59(1) of Regulation (EC) No 1907/2006 for having endocrine disrupting properties or is identified to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## 12.7. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

## **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

## **SECTION 13: Disposal Considerations**

#### 13.1. Waste treatment methods

Must be sent to a suitable incineration plant, observing local regulations.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

## **SECTION 14: Transport Information**

to Regulation (EC) No 1907/2006.

Date / Revised: 24.04.2025 Version: 7.0 Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

#### Land transport

**ADR** 

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable UN proper shipping name: Not applicable Transport hazard class(es): Not applicable Packing group: Not applicable Environmental hazards: Not applicable None known Special precautions for

user

**RID** 

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable Not applicable UN proper shipping name: Not applicable Transport hazard class(es): Packing group: Not applicable Environmental hazards: Not applicable

Special precautions for

user

None known

#### **Inland waterway transport**

ADN

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable Not applicable UN proper shipping name: Not applicable Transport hazard class(es): Packing group: Not applicable Environmental hazards: Not applicable None known Special precautions for

user:

Transport in inland waterway vessel

Not evaluated

#### Sea transport

**IMDG** 

Not classified as a dangerous good under transport regulations

UN number or ID number: Not applicable UN proper shipping name: Not applicable Transport hazard class(es): Not applicable Not applicable Packing group:

to Regulation (EC) No 1907/2006.

Date / Revised: 24.04.2025 Version: 7.0 Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

Environmental hazards: Special precautions for Not applicable None known

user

#### Air transport

#### IATA/ICAO

Not classified as a dangerous good under transport regulations

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:
Environmental hazards:
Special precautions for

Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

user

#### 14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

## 14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

## 14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

#### 14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

## 14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

#### 14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

## 14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

to Regulation (EC) No 1907/2006.

Date / Revised: 24.04.2025 Version: 7.0 Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

## **SECTION 15: Regulatory Information**

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

Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3

Restrictions of Regulation (EC) No 1907/2006, Annex XVII, do not apply for the intended use(s) of the product given in this SDS.

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU): Listed in above regulation: no

Classification applies for standard conditions of temperature and pressure.

To avoid risks to man and the environment, comply with the instructions for use.

#### 15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

#### **SECTION 16: Other Information**

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned

in section 2 or 3:

Aquatic Chronic Hazardous to the aquatic environment - chronic

Acute Tox. Acute toxicity

H412 Harmful to aquatic life with long lasting effects.

EUH401 To avoid risks to human health and the environment, comply with the

instructions for use.

Harmful if inhaled. H332 H301 Toxic if swallowed.

## Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational

Date / Revised: 24.04.2025 Version: 7.0
Date / Previous version: 03.08.2022 Previous version: 6.0

Product: Pix®

(ID no. 30122198/SDS\_CPA\_EU/EN)

Date of print 13.12.2025

Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.