

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

Printing date 24.08.2026

Version number 3 (replaces version 2)

Revision: 18.04.2024

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

· 1.1 Product identifier

· **Trade name:** **Maertz ISOSEAL Adhesive**

· **UFI:** A300-P0H0-800M-G5N5

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

No further relevant information available.

· **Application of the substance / the mixture** 3D printing adhesive

· 1.3 Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

IGO3D GmbH

Vahrenwalder Str. 315a

D-30179 Hannover

Germany

Tel.: +49 (0)511 89 88 87 -12

Fax: +49 (0)511 89 88 87 - 29

E-Mail: info@igo3d.com

· **Informing department:** Hotline: +49 (0)511 89 88 87 -12 Mo - Fr: 9:00 - 17:00

· 1.4 Emergency telephone number:

Gift-Informationszentrum Nord, Göttingen

Poison Information Center, Göttingen

Tel.: +49 (0)551 19240

(German and English only)

* SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008**



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

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

· **Additional information:**

The full text of the classification and labelling elements mentioned is given in Section 16.

· 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**



GHS07

· **Signal word** Warning

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

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

2-methyl-2H-isothiazol-3-one

1,2-benzisothiazol-3(2H)-one

· **Hazard statements**

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

· **Precautionary statements**

P102

Keep out of reach of children.

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P261 Avoid breathing mist.
 P280 Wear protective gloves / eye protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards**Results of PBT and vPvB assessment**· **PBT:** Not applicable· **vPvB:** Not applicable**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:**

Aqueous dispersion of a copolymer not requiring labelling.

Mixture of the substances listed below including additives not requiring identification.

Dangerous components:

CAS: 69011-36-5 EC number: 931-138-8 Reg.nr.: 01-2119976362-32-X	Isotridecanol, ethoxylated (≥ 4 EO) ☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 1 % ≤ C < 10 %	≥ 1 - < 2.5%
CAS: 124-68-5 EINECS: 204-709-8 Index number: 603-070-00-6 Reg.nr.: 01-2119475788-16-X	2-amino-2-methylpropanol ☠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	0 - < 2.5%
CAS: 69011-36-5 EC number: 931-138-8 Reg.nr.: 01-2119976362-32-X	Isotridecanol, ethoxylated (≥ 2,5 - ≤ 7 EO) ☠ Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	0 - < 2.5%
CAS: 3101-60-8 EINECS: 221-453-2 Reg.nr.: 01-2119959496-20-X	p-tert-butylphenyl 1-(2,3-epoxy)propyl ether ☠ Aquatic Chronic 2, H411; ☠ Skin Sens. 1, H317	≥ 1 - < 2.5%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6 Reg.nr.: 01-2120761540-60-X	1,2-benzisothiazol-3(2H)-one ☠ Acute Tox. 2, H330; ☠ Eye Dam. 1, H318; ☠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ☠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317 ATE: ATE Oral oral: 450 mg/kg bw ATE Inhal. inhalative: 0.21 mg/l Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.036 %	≥ 0 - < 0.025%
CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9 Reg.nr.: 01-2120764690-50-X	2-methyl-2H-isothiazol-3-one ☠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; ☠ Skin Corr. 1B, H314; ☠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); ☠ Skin Sens. 1A, H317, EUH071 Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	≥ 0.0015 - < 0.025%

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

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SECTION 4: First aid measures

· 4.1 Description of first aid measures

- **General information** Take affected persons into the open air.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact**
 - Wash with water and soap.
 - Remove contaminated clothing.
 - Wash contaminated clothing before re-use.
 - In case of skin irritations or sensitizing effects, consult doctor.
- **After eye contact**
 - Rinse opened eye for several minutes under running water.
 - Remove contact lenses if possible.
 - Use eye protection.
 - In case of permanent aches and pains please go and see the doctor.
- **After swallowing**
 - Rinse out mouth with water.
 - In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**
 - No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
 - A symptomatic therapy is to be induced.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
 - **Suitable extinguishing agents**
 - The product itself does not burn.
 - Use fire fighting measures that suit the environment.
 - **For safety reasons unsuitable extinguishing agents** None known.
- **5.2 Special hazards arising from the substance or mixture**
 - During incomplete combustion carbon monoxide can be formed.
 - Inhalation of combustion gases may cause serious health hazards.
 - Formation of toxic gases is possible during heating or in case of fire.
 - (Traces)
 - Hydrogen chloride (HCl)
- **5.3 Advice for firefighters**
 - **Protective equipment:** Wear self-contained breathing apparatus.

* SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Avoid contact with eyes and skin.
 - Ensure adequate ventilation
 - Particular danger of slipping on leaked/spilled product.
 - **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, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).
 - Dispose of the material collected according to regulations.
- **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.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Avoid direct contact with eyes, skin and clothing.
Do not inhale gases/vapours/aerosols.
Ensure sufficient ventilation.

· **Information about protection against explosions and fires:** No special measures required.

· Handling

Do not eat, drink or smoke while working.
Wash hands during breaks and at the end of the work.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

· Requirements to be met by storerooms and containers:

Keep container tightly closed.
Protect from frost.

· Information about storage in one common storage facility:

Keep away from food, drink and animal feeding stuffs.
Do not store together with textiles.

· Further information about storage conditions: Protect from heat and direct sunlight.

· 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

WEL: workplace exposure limit

OEL: Occupational Exposure Limit

· DNELs

CAS: 69011-36-5 Isotridecanol, ethoxylated (≥ 4 EO)

Oral	DNEL (consumer, long-term, systemic)	2.5 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	263 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	93.8 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	37 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	6.53 mg/m ³ (human)

CAS: 69011-36-5 Isotridecanol, ethoxylated (≥ 2,5 - ≤ 7 EO)

Oral	DNEL (consumer, long-term, systemic)	2.5 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	263 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	93.8 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	37 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	6.53 mg/m ³ (human)

CAS: 3101-60-8 p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

Dermal	DNEL (worker, short-term, systemic)	1 mg/kg bw/day (human)
	DNEL (worker, long-term, systemic)	1 mg/kg bw/day (human)
	DNEL (consumer, short-term, systemic)	0.5 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	0.5 mg/kg bw/day (human)
	DNEL (worker, long-term, local)	0.0016 mg/cm ² (human)
	DNEL (worker, short-term, local)	0.0016 mg/cm ² (human)
	DNEL (consumer, long-term, local)	0.00095 mg/cm ² (human)
	DNEL (consumer, short-term, local)	0.00095 mg/cm ² (human)
Inhalative	DNEL (worker, short-term, systemic)	3.5 mg/m ³ (human)

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	DNEL (worker, long-term, systemic)	3.5 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	1.75 mg/m ³ (human)
	DNEL (worker, short-term, local)	3.5 mg/m ³ (human)
	DNEL (worker, long-term, local)	3.5 mg/m ³ (human)
	DNEL (consumer, long-term, local)	1.75 mg/m ³ (human)
CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one		
Oral	DNEL (consumer, long-term, systemic)	1.2 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	0.966 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	0.345 mg/kg bw/day (')
Inhalative	DNEL (worker, long-term, systemic)	6.81 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	1.2 mg/m ³ (human)
	DNEL (worker, short-term, local)	500 mg/m ³ (human)
CAS: 2682-20-4 2-methyl-2H-isothiazol-3-one		
Oral	DNEL (consumer, short-term, systemic)	0.053 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	0.027 mg/kg bw/day (human)
Inhalative	DNEL (worker, short-term, local)	0.043 mg/m ³ (human)
	DNEL (worker, long-term, local)	0.021 mg/m ³ (human)
	DNEL (consumer, short-term, local)	0.043 mg/m ³ (human)
	DNEL (consumer, long-term, local)	0.021 mg/m ³ (human)
· PNECs		
CAS: 69011-36-5 Isotridecanol, ethoxylated (≥ 4 EO)		
	PNEC aqua (fresh water)	0.00436 mg/L (.)
	PNEC Water (marine water)	0.000436 mg/L (.)
	PNEC STP - Sewage Treatment Plant	4.35 mg/L (.)
	PNEC soil	0.021 mg/kg soil dw (.)
	PNEC sediment (fresh water)	0.119 mg/kg sedim. dw (.)
	PNEC sediment (marine water)	0.012 mg/kg sedim. dw (.)
CAS: 69011-36-5 Isotridecanol, ethoxylated (≥ 2,5 - ≤ 7 EO)		
	PNEC aqua (fresh water)	0.00436 mg/L (.)
	PNEC Water (marine water)	0.000436 mg/L (.)
	PNEC STP - Sewage Treatment Plant	4.35 mg/L (.)
	PNEC soil	0.021 mg/kg soil dw (.)
	PNEC sediment (fresh water)	0.119 mg/kg sedim. dw (.)
	PNEC sediment (marine water)	0.012 mg/kg sedim. dw (.)
CAS: 3101-60-8 p-tert-butylphenyl 1-(2,3-epoxy)propyl ether		
	PNEC aqua (fresh water)	0.0075 mg/L (.)
	PNEC Water (marine water)	0.00075 mg/L (.)
	PNEC STP - Sewage Treatment Plant	100 mg/L (.)
	PNEC sediment (fresh water)	33.54 mg/kg sedim. dw (.)
	PNEC sediment (marine water)	3.353 mg/kg sedim. dw (.)
CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one		
	PNEC aqua (fresh water)	0.00403 mg/L (.)
	PNEC Water (marine water)	0.000403 mg/L (.)
	PNEC STP - Sewage Treatment Plant	1.03 mg/L (.)
	PNEC soil	3 mg/kg soil dw (.)
	PNEC sediment (fresh water)	0.0499 mg/kg sedim. dw (.)
	PNEC sediment (marine water)	0.00499 mg/kg sedim. dw (.)
	PNEC Water (sporadic release)	0.0011 mg/L

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CAS: 2682-20-4 2-methyl-2H-isothiazol-3-one

PNEC aqua (fresh water)	0.00339 mg/L (.)
PNEC Water (marine water)	0.00339 mg/L (.)
PNEC STP - Sewage Treatment Plant	0.23 mg/L (.)
PNEC soil	0.047 mg/kg soil dw (.)
PNEC Water (sporadic release)	0.00339 mg/L (.)

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

· 8.2 Exposure controls

· **Appropriate engineering controls**

Ensure adequate ventilation, especially in closed rooms.

Draw off vapors and fumes directly at the point of generation or release.

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

· **General protective and hygienic measures**

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

Do not eat or drink while working.

Take off all contaminated clothing immediately.

· **Breathing equipment:**

Not necessary if room is well-ventilated.

Use respiratory protection in case of aerosol or mist formation.

Filter P2.

· **Hand protection**



Use gloves of stable material (i.e. nitril rubber).

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**

Nitrile rubber, NBR

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.

· **Penetration time of glove material**

In case of a layer thickness of 0.2 mm the penetration time is longer than 480 minutes.

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

· **Eye/face protection** Safety glasses recommended during refilling.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· **General Information**

· **Physical state**

Liquid

· **Colour:**

Whitish

· **Odour:**

Weak, characteristic

· **Odour threshold:**

Not determined

· **Melting point/freezing point:**

Not determined

· **Boiling point or initial boiling point and boiling range**

100 °C (CAS: 7732-18-5 water, distilled, conductivity or of similar purity)

· **Flammability**

Not applicable

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· Lower and upper explosion limit · Lower: Not determined · Upper: Not determined · Flash point: Not applicable · Decomposition temperature: Not determined · SADT · pH at 20 °C 8.2 · Viscosity: · Kinematic viscosity Not determined · dynamic at 20 °C: 280 mPas · Solubility · Water: Fully miscible		
· Partition coefficient n-octanol/water (log value) Not determined		
25086-89-9	Polyvinylpyrrolidone/Vinyl Acetate Copolymer	< -2,5
2634-33-5	1,2-benzisothiazol-3(2H)-one	0,76
· Vapour pressure at 20 °C: 23 hPa (CAS: 7732-18-5 water, distilled, conductivity or of similar purity) · Density and/or relative density · Density at 20 °C 1.02 g/cm³ · Relative density Not determined · Vapour density Not determined		
· 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. · 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 No statement can be made on this point due to a lack of studies on the product. · Desensitised explosives Void		

* SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.

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- **10.2 Chemical stability**
The product is stable under normal handling and storage conditions (see section 7).
- **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.

· LD/LC50 values that are relevant for classification:

CAS: 69011-36-5 Isotridecanol, ethoxylated (≥ 4 EO)

Oral	LD50	> 2,000 mg/kg (Rat) (OECD 423)
Dermal	LD50	5,960 mg/kg (rabbit)

CAS: 124-68-5 2-amino-2-methylpropanol

Oral	LD50	2,900 mg/kg (Rat) (OECD 401)
Inhalative	LC50	> 2,000 mg/l/4h (rabbit) (OECD 402)

CAS: 69011-36-5 Isotridecanol, ethoxylated (≥ 2,5 - ≤ 7 EO)

Oral	LD50	> 2,000 mg/kg (Rat) (OECD 423)
Dermal	LD50	5,960 mg/kg (rabbit)

CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	LD50	490 mg/kg (Rat)
	ATE Oral	450 mg/kg bw (ATE)
Dermal	LD50	> 2,000 mg/kg (Rat)

CAS: 2682-20-4 2-methyl-2H-isothiazol-3-one

Oral	LD50	120 mg/kg (Rat)
Dermal	LD50	242 mg/kg (Rat)

· Primary irritant effect:

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **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:**

· Repeated dose toxicity

CAS: 69011-36-5 Isotridecanol, ethoxylated (≥ 4 EO)

Oral	NOAEL (90d)	500 mg/kg bw/day (Rat) (OECD 408)
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CAS: 69011-36-5 Isotridecanol, ethoxylated (≥ 2,5 - ≤ 7 EO)

Oral	NOAEL (90d)	500 mg/kg bw/day (Rat) (OECD 408)
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- **11.2 Information on other hazards**

· Endocrine disrupting properties

None of the ingredients is listed.

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* SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:	
CAS: 69011-36-5 Isotridecanol, ethoxylated (≥ 4 EO)	
EC50	0.544 mg/l/48h (Daphnia magna) (OECD 202)
LC50	> 1.5 mg/l/96h (Danio rerio) (OECD 203)
EC50	3.4 mg/l/72h (Desmodesmus subspicatus) (EU C.3)
CAS: 69011-36-5 Isotridecanol, ethoxylated (≥ 2,5 - ≤ 7 EO)	
EC50	0.544 mg/l/48h (Daphnia magna) (OECD 202)
LC50	> 1.5 mg/l/96h (Danio rerio) (OECD 203)
EC50	3.4 mg/l/72h (Desmodesmus subspicatus) (EU C.3)
CAS: 3101-60-8 p-tert-butylphenyl 1-(2,3-epoxy)propyl ether	
EC50 (static)	67.9 mg/l/48h (Daphnia magna) (OECD 202)
IC50 (static)	9 mg/l/72h (Raphidocelis subcapitata) (OECD 201)
LC50 (static)	7.5 mg/l/96h (Oncorhynchus mykiss) (OECD 203)
CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one	
LC50	22 mg/l /96h (Cyprinodon variegatus)
EC50	2.9 mg/l/48h (Daphnia magna)
CAS: 2682-20-4 2-methyl-2H-isothiazol-3-one	
LC50	0.934 mg/l /48h (Daphnia magna)
EC50	0.0695 mg/l/24h (Skeletonema costatum)

· **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.

· 12.7 Other adverse effects

· Behaviour in sewage processing plants:	
CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one	
EC50	12.8 mg/l/3h (activated sludge)

· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

* SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Smaller quantities can be disposed with household waste.

Do not allow product to reach sewage system.

Unused product has to be disposed as special waste.

The waste code numbers mentioned are recommendations based on the probable use of the product.

· European waste catalogue	
07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02 00	wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 13	waste plastic

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- **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	Void
· 14.2 UN proper shipping name	
· ADR/RID, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR/RID, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	
· ADR/RID, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable
· 14.6 Special precautions for user	Not applicable
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

* 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** Conditions of restriction: 3

- **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.

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Safety data sheet

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

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· **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.

This data sheet considers labelling requirements of Regulation (EU) 2022/692 adapting Regulation (EC) No 1272/2008 (18th ATP of the CLP Regulation).

· **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.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H330 Fatal if inhaled.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.
 EUH071 Corrosive to the respiratory tract.

· **Department issuing data specification sheet:**

 **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:
 DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
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· **Date of previous version:** 25.07.2022· **Version number of previous version:** 2

· **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

Acute Tox. 2: Acute toxicity – Category 2

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

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Safety data sheet
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Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Skin Sens. 1A: Skin sensitisation – Category 1A

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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

· *** Data compared to the previous version altered.**

EU
