

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 22.02.2024

Version number 15 (replaces version 14)




Revision: 22.02.2024

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

- 1.1 Product identifier
- Trade name: **KEMPERTEC EP5-Primer (B)**
- UFI: CQS6-70K7-A006-4R4T
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 - Identified use: intended for professional use only!
- Application of the substance / the mixture: Primer
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: KEMPER SYSTEM GmbH & Co. KG
Holländische Strasse 32-36
34246 Vellmar
Deutschland / Germany
Telefon: +49 (0)561 / 8295-0
Telefax: +49 (0)561 / 8295-5110
E-Mail: MSDS@KEMPER-SYSTEM.COM
- Further information obtainable from: research & development
- 1.4 Emergency telephone number: Medical Emergency information in case of poisoning:
Poison Information Center Mainz - 24 h - Phone: +49 (0) 6131 19240
(advisory service in German or English language)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
 - Acute Tox. 4 H302 Harmful if swallowed.
 - Acute Tox. 4 H332 Harmful if inhaled.
 - Skin Corr. 1B H314 Causes severe skin burns and eye damage.
 - Eye Dam. 1 H318 Causes serious eye damage.
 - Skin Sens. 1 H317 May cause an allergic skin reaction.
 - Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.
- 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
 - GHS09
- Signal word: Danger
- Hazard-determining components of labelling:
 - m-phenylenebis(methylamine)
 - 3-aminomethyl-3,5,5-trimethylcyclohexylamine
 - Polyoxypropylenediamine
 - Phenol, styrenated
 - 3,3,5-trimethylhexamethylene-diamine
- Hazard statements
 - H302+H332 Harmful if swallowed or if inhaled.
 - H314 Causes severe skin burns and eye damage.
 - H317 May cause an allergic skin reaction.
 - H411 Toxic to aquatic life with long lasting effects.
- Precautionary statements
 - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P310 Immediately call a POISON CENTER/doctor.
 - P362+P364 Take off contaminated clothing and wash it before reuse.
 - P405 Store locked up.
 - 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.

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- vPvB: Not applicable.

- Determination of endocrine-disrupting properties

61788-44-1 Phenol, styrenated

List II

69-72-7 Salicylic acid

List II; III

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

- Description:

Mixture: consisting of the following components.

- Dangerous components:

CAS: 61788-44-1 EINECS: 262-975-0	Phenol, styrenated Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1A, H317	25-50%
CAS: 1477-55-0 EINECS: 216-032-5	m-phenylenebis(methylamine) Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Sens. 1, H317; Aquatic Chronic 3, H412, EUH071	25-50%
CAS: 2855-13-2 EINECS: 220-666-8	3-aminomethyl-3,5,5-trimethylcyclohexylamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1A, H317; Aquatic Chronic 3, H412 ATE: LD50 oral: 1,030 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.001 %	≥12.5-<25%
CAS: 9046-10-0	Polyoxypropylenediamine Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Chronic 3, H412	≥12.5-<25%
CAS: 90-72-2 EINECS: 202-013-9	2,4,6-tris(dimethylaminomethyl)phenol Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥2.5-<10%
CAS: 112-53-8 EINECS: 203-982-0	Lauryl alcohol Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Eye Irrit. 2, H319	≥2.5-<10%
CAS: 69-72-7 EINECS: 200-712-3	Salicylic acid Repr. 2, H361d; Eye Dam. 1, H318; Acute Tox. 4, H302	≥1-<2.5%
CAS: 2579-20-6 EINECS: 219-941-5	1,3-Cyclohexanedimethanamine Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Acute Tox. 4, H312; Aquatic Chronic 3, H412	≥1-<2.5%
CAS: 13477-34-4 EINECS: 233-332-1	calcium nitrate tetrahydrate Eye Dam. 1, H318; Acute Tox. 4, H302	≥1-<2.5%
CAS: 25513-64-8 EINECS: 247-063-2	3,3,5-trimethylhexamethylene-diamine Skin Corr. 1C, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1, H317	≥1-<2.5%

- 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:

Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Do not leave affected persons unattended.

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

- After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

Supply fresh air; consult doctor in case of complaints.

- After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment in case of complaints.

- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Protect unharmed eye.

- After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately.

If symptoms persist consult doctor.

- 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:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
 - Formation of toxic gases is possible during heating or in case of fire.
 - Nitrogen oxides (NO_x)
 - Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
 - Wear protective equipment. Keep unprotected persons away.
 - Ensure adequate ventilation
 - Avoid contact with skin and eyes
- **6.2 Environmental precautions:**
 - Do not allow product to reach sewage system or any water course.
 - Inform respective authorities in case of seepage into water course or sewage system.
 - Prevent from spreading (e.g. by damming-in or oil barriers).
 - Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
 - Do not flush with water or aqueous cleansing agents
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Dispose contaminated material as waste according to section 13.
- **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 disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 - Ensure good ventilation/exhaustion at the workplace.
 - Store in cool, dry place in tightly closed receptacles.
 - Prevent formation of aerosols.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
 - Store only in the original receptacle.
- **Information about storage in one common storage facility:**
 - Store away from foodstuffs.
- **Further information about storage conditions:**
 - Protect from frost.
 - Store in dry conditions.
 - Keep container tightly sealed.
 - Recommended storage temperature: 5-30 °C
- **Storage class:**
 - 8 A
- **7.3 Specific end use(s)**
 - No further relevant information available.

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SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

1477-55-0 m-phenylenebis(methylamine)

OEL | Long-term value: 0.1 mg/m³

- Regulatory information

OEL: 2021 CoP for the Safety, Health and Welfare at Work

- DNELs

1477-55-0 m-phenylenebis(methylamine)

Inhalative	Acute - systemic effects	1.2 mg/m ³ (Worker) (GESTIS DNEL List (June 2018))
	Acute - local effects	0.2 mg/m ³ (Worker) (GESTIS DNEL List (June 2018))

- Additional information:

The lists valid during the making were used as basis.

- 8.2 Exposure controls

- Appropriate engineering controls

No further data; see section 7.

- Individual protection measures, such as personal protective equipment

- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

- Respiratory protection:

When used properly and under normal conditions, breathing protection is not required.
Use suitable respiratory protective device in case of insufficient ventilation.
Filter A/P2

Respiratory protection - Gas filters and combination filters according to (EN 14387)

- Hand protection



Protective gloves

Check protective gloves prior to each use for their proper condition.
Only use chemical-protective gloves with CE-labelling of category III.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
After use of gloves apply skin-cleaning agents and skin cosmetics.

- Material of gloves

Recommended materials:

Butyl rubber, BR

Recommended thickness of the material: ≥ 0.5 mm

Penetration time (min.): < 480 min

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.

- Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

- As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.1 mm

Penetration time (min.): < 10

- Eye/face protection



Tightly sealed goggles

Protective goggles and facial protection - Classification according to EN 166
protective clothing (EN 13034)

- Body protection:

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SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Colour:	Yellow
- Odour:	Amine-like
- Odour threshold:	Not determined.
- Melting point/freezing point:	Undetermined.
- Boiling point or initial boiling point and boiling range	>200 °C
- Flammability	Not applicable.
- Lower and upper explosion limit	
- Lower:	Not determined.
- Upper:	Not determined.
- Flash point:	>100 °C
- Decomposition temperature:	Not determined.
- pH	Not determined.
- Viscosity:	
- Kinematic viscosity at 20 °C	670 mm ² /s
- Dynamic:	Not determined.
- Solubility	
- water:	Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value)	Not determined.
- Density and/or relative density	
- Density at 20 °C:	1.04 g/cm ³
- 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.	
- Ignition temperature:	Product is not selfigniting.
- Explosive properties:	Product does not present an explosion hazard.
- Solvent separation test:	
- VOC (EC)	1.28 %
- 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

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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Violent reactions with: amines and acids.
- **10.4 Conditions to avoid** Protect from heat.
- **10.5 Incompatible materials:** Strong oxidizing agents: amines and acids.
- **10.6 Hazardous decomposition products:** Does not decompose during its intended use.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if swallowed or if inhaled.

- **LD/LC50 values relevant for classification:**

61788-44-1 Phenol, styrenated

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

1477-55-0 m-phenylenebis(methylamine)

Oral	LD50	940 mg/kg (rat)
Inhalative	LC50/4 h	1.34 mg/l (rat) (OECD Guideline 403 (Acute Inhalation Toxicity))

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Oral	LD50	1,030 mg/kg (ATE)
		1,030 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

9046-10-0 Polyoxypropylenediamine

Oral	LD50	2,885 mg/kg (rat)
Dermal	LD50	2,980 mg/kg (rabbit)
	LC50	772 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h, Lit.1 (OECD 203))

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

Oral	LD50	2,169 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rabbit)
	LC50	84 mg/l (Scenedesmus subspicatus) (72h; OECD TG 201)

112-53-8 Lauryl alcohol

Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
	LC50	>100 mg/l (Leuciscus idus (Goldorfe)) (96h; ISO7346)

69-72-7 Salicylic acid

Oral	LD50	891 mg/kg (rat)
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2579-20-6 1,3-Cyclohexanedimethanamine

Oral	LD50	793 mg/kg (rat)
Dermal	LD50	1,100 mg/kg (ATE)

13477-34-4 calcium nitrate tetrahydrate

Oral	LD50	500 mg/kg (ATE)
Dermal	LD50	300-2,000 mg/kg (rat) (OECD 423)

25513-64-8 3,3,5-trimethylhexamethylene-diamine

Oral	LD50	500 mg/kg (ATE)
------	------	-----------------

- **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** 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.

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- **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.
- **11.2 Information on other hazards**

- Endocrine disrupting properties

61788-44-1	Phenol, styrenated		List II
69-72-7	Salicylic acid		List II; III

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

61788-44-1 Phenol, styrenated

LL 50	14.8 mg/l (fish) (96h)
EL50	3.14 mg/l (Scenedesmus subspicatus) (72h)
	1-10 mg/l (Daphnia magna) (48h)

1477-55-0 m-phenylenebis(methylamine)

LC50/96 h	87.6 mg/l (oryzias latipes (Ricefish))
EC50	15.2 mg/l (daphnia) (48h)

2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine

LC50/96 h	110 mg/l (Brachydanio rerio (Ricefish))
EC50	23 mg/l (daphnia)
	15.2 mg/l (Daphnia magna)
EC50	37 mg/l (Scenedesmus subspicatus)
LC 50	87.6 mg/l (oryzias latipes (Ricefish)) (96h)

9046-10-0 Polyoxypropylenediamine

EC50	80 mg/l (Daphnia magna) (48h; OECD 202 static)
EC50	15 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201 static)

90-72-2 2,4,6-tris(dimethylaminomethyl)phenol

LC50/96 h	175 mg/l (Cyprinus Carpio) (96h)
EC50	750 mg/l (daphnia) (96h)
EC50	222 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (24h)

112-53-8 Lauryl alcohol

EC50	>0.01-1 mg/l (Selenastrum capricornutum) (OECD 201)
EC0	>100 mg/l (Pseudomonas putida) (OECD 209)
NOEC	>0.001-0.01 mg/l (Daphnia magna) (OECD 211)

2579-20-6 1,3-Cyclohexanedimethanamine

EC50	58.4 mg/l (ALGAE) (72h)
EC50	130 mg/l (Leuciscus idus) (96h; golden orfe)
EC50	33.1 mg/l (Daphnia magna) (48h; Big Water flea)

25513-64-8 3,3,5-trimethylhexamethylene-diamine

EC50	29.5 mg/l (Scenedesmus subspicatus) (72h)
LC50	174 mg/l (Leuciscus idus melanotus) (72h)

- **12.2 Persistence and degradability** No further relevant information available.
- **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** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects**
- **Remark:** Toxic for fish

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- **Additional ecological information:**
- **General notes:**

Must not reach sewage water or drainage ditch undiluted or unneutralised.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Disposal according to official regulations

- **European waste catalogue**

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
15 01 10*	packaging containing residues of or contaminated by hazardous substances
17 02 03	plastic

- **Uncleaned packaging:**
- **Recommendation:**

Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA**

UN2735

- **14.2 UN proper shipping name**
- **ADR**

2735 AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), CALCIUM NITRATE), ENVIRONMENTALLY HAZARDOUS

- **IMDG**

AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), CALCIUM NITRATE), MARINE POLLUTANT

- **IATA**

AMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine), CALCIUM NITRATE)

- **14.3 Transport hazard class(es)**

- **ADR**



- **Class**

8 (C7) Corrosive substances.

- **Label**

8

- **IMDG**



- **Class**

8 Corrosive substances.

- **Label**

8

- **IATA**



- **Class**

8 Corrosive substances.

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- Label	8
- 14.4 Packing group - ADR, IMDG, IATA	II
- 14.5 Environmental hazards: - Marine pollutant: - Special marking (ADR):	Product contains environmentally hazardous substances: Phenol, styrenated Symbol (fish and tree) Symbol (fish and tree)
- 14.6 Special precautions for user - Hazard identification number (Kemler code): - EMS Number: - Stowage Category - Segregation Code	Warning: Corrosive substances. 80 F-A,S-B A SG35 Stow "separated from" SGG1-acids
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
- Transport/Additional information:	
- ADR - Limited quantities (LQ) - Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- Transport category - Tunnel restriction code	2 E

- IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
- UN "Model Regulation":	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS(METHYLAMINE), CALCIUM NITRATE), 8, II, ENVIRONMENTALLY HAZARDOUS

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.
- Seveso category E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- 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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- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The safety data sheet issued is also compliant with the regulation Annex I of Regulation (EU) no. 453/2010 and Annex II of Regulation (EU) no. 2020/878.

- Relevant phrases

H302 Harmful if swallowed.
 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.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H361d Suspected of damaging the unborn child.
 H400 Very toxic to aquatic life.
 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 SDS:

research & development

- Contact:

research & development

- Date of previous version:

03.05.2022

- Version number of previous version:

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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)
 VOC: Volatile Organic Compounds (USA, EU)
 DNEL: Derived No-Effect Level (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 ATE: Acute toxicity estimate values
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Corr. 1A: Skin corrosion/irritation – Category 1A
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B
 Skin Corr. 1C: Skin corrosion/irritation – Category 1C
 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
 Repr. 2: Reproductive toxicity – Category 2
 Aquatic Acute 1: Hazardous to the aquatic environment - acute 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
 - www.echa.europa.eu
 - www.baua.de
 IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:
 - www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp
 - www.dguv.de/ifa/gestis/gestis-dnel-liste

- Sources

- * Data compared to the previous version altered.