

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Silensor - SL**

CAS No.: --
EC No.: --
UFI --
REACH No.: --

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

Relevant identified uses: Plastic articles
Uses advised against: Other

1.3. Details of the supplier of the safety data sheet**Manufacturer**

ERKODENT Erich Kopp GmbH
Siemensstrasse 3
--
D 72285 Pfalzgrafenweiler

Telephone +49 7445 8501 0
Telefax: +49 7445 8501-15

Supplier

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Information contact

ERKODENT Erich Kopp GmbH

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E-mail (competent person) w.heuchert@erkodent.com
Website www.erkodent.com

1.4. Emergency telephone number

ERKODENT Erich Kopp GmbH
Only available during office hours.

Telephone +49 7445 8501 0

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Regulation (EC) No 1272/2008:
Identification is not obligatory. Please observe the information on the safety data sheet at all times.

2.2. Label elements

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

Hazard pictograms

Signal word: -

Hazard statements:

-

Precautionary statements:

-

Special labelling of particular preparations:

none

2.3. Other hazards

On basis of test data. This substance is classified as not hazardous according to 67/548/EEC.

SECTION 3: Composition / information on ingredients

3.1. Substances

Polymere

3.2. Mixtures

PA

Composition/information on ingredients

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
Polyamide	163800-67-7			-	

(Full text of H- and EUH-statements: see section 16.)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: No special measures are necessary.

In case of inhalation: Do not breathe dust. Dust should be exhausted directly at the point of origin. Inhalation of dust may cause irritation of the respiratory system.

Following skin contact: No special measures are necessary. After contact with molten product, cool skin area rapidly with cold water. Immerse in cold water for a prolonged period. Burns caused by molten material must be treated clinically. Irritating to skin. slightly irritant

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist. Irritating to eyes. Dust protection goggles.

After ingestion: No special measures are necessary.

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

No information available.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguishing powder. Carbon dioxide. alcohol resistant foam. Water spray.

Unsuitable extinguishing media High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. Sulphur dioxide (SO₂). Formaldehyde.

5.3. Advice for firefighters

General information

Use water spray jet to protect personnel and to cool endangered containers.

Special protective equipment for fire-fighters:

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid generation of dust. Dust must be exhausted directly at the point of origin.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Keep away from heat.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and dry.

Hints on joint storage

Conditions to avoid: UV-radiation/sunlight.

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

occupational exposure limit value

Substance:	CAS-No.:	Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
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Substance with a common (EC) occupational exposure limit value.

Substance:	CAS-No.:	Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
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DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL
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PNEC Value

Substance:	CAS-No.:	PNEC
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Additional information

none

8.2. Exposure controls

Occupational exposure controls:

none

General protection and hygiene measures:

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Take off immediately all contaminated clothing.

Personal protection equipment

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. Dust protection goggles.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Technical ventilation of workplace.

Hand protection

See chapter 7. No additional measures necessary.

Eye/face protection

Dust protection goggles.

Body protection:

Body protection: not required.

Environmental exposure controls

refer to chapter 7. No further action is necessary.

Consumer exposure controls

refer to chapter 7. No further action is necessary.

Exposure Scenario:

none

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid

Colour: blue
Odour: characteristic
Odour threshold: No data available

Safety relevant basis data

	parameter	Value	unit	Remark
Melting point/freezing point:	Vicat	134	°C	
Initial boiling point and boiling range:				not determined
Flammability:				not determined
lower flammability or explosive limits:				not applicable
Upper flammability or explosive limits:				not applicable
Flash point:			°C	not determined
Ignition temperature:			°C	not determined
Decomposition temperature:			°C	not determined
pH:				not applicable
Kinematic viscosity:				not applicable
Water solubility (g/L):				
Partition coefficient: n-octanol/water:				not determined
Vapour pressure:				not applicable
Density:		1,14	g/cm³	
Relative density:				not determined
Particle properties:				not determined

9.2. Other information

Observe technical data sheet.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

Reacts with : Solvents/Thinner Etchant and acids

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

UV-radiation/sunlight.

10.5. Incompatible materials

Acid. Base. Oxidising agent

10.6. Hazardous decomposition products

Hydrocarbons. Carbon dioxide (CO2) Carbon monoxide. aldehydes

SECTION 11: Toxicological information

11.1. Information on hazard classes within the meaning of Regulation (EC)

No. 1272/2008

medical device product

Cytotoxtest: no abnormality detected

M-factor: --

Acute toxicity (oral): --

Acute toxicity (dermal): --

Acute toxicity (inhalative): --

Acute toxicity

Substance:	CAS-No.:	Toxicological information
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Skin corrosion/irritation:

In the case of the formation of dust.

Serious eye damage/irritation:

Irritating to eyes. In the case of the formation of dust.

Respiratory or skin sensitisation:

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

No indications of human carcinogenicity exist.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Reproductive toxicity:

Toxicological data are not available.

STOT-single exposure:

No information available.

STOT-repeated exposure:

No information available.

Aspiration hazard

Inhalation of dust may cause irritation of the respiratory system.

Additional information

11.2. Information about other hazards

11.2.1 Endocrine disrupting properties

11.2.2 Other Information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

none

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
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12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

not applicable

12.6 Endocrine disruptive effect

There are no data available on the mixture itself.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal/Product:

Can be incinerated together with household waste in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

Appropriate disposal / Package

Dispose of waste according to applicable legislation.

List of proposed waste codes / waste designations according to EWC / AVV

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1. UN number

UN No.: --

14.2. UN proper shipping name

Land transport (ADR/RID)

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Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

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14.3. Transport hazard class(es)

Hazard label(s) / Label: --

Classification code: / Classification Code: --

14.4. Packing group

Packing group/ Packing Group: --

14.5. Environmental hazards

ADR/RID / IMDG / ICAO-TI / IATA-DGR:

Yes
☐

No
☒

Marine pollutant:



14.6. Special precautions for user

Land transport (ADR/RID)

transport category: --

Special provisions: --

tunnel restriction code: --

Limited quantity (LQ): --

Sea transport (IMDG)

EmS-No: --

Special provisions: -- Limited quantity (LQ): --

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remark No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer
No information available.

Regulation (EC) No 850/2004 [POP-Regulation]

Regulation (EU) No 649/2012 on the export and import of dangerous chemicals
No information available.

The substance/product is registered with strictly controlled conditions as defined in Article 18(4) of Regulation (EC) No. 1907/2006 (REACH Regulation) and must therefore be handled as such.
No information available.

National regulations

Observe in addition any national regulations!

Restrictions of occupation

no restriction

Restrictions of occupation

Not subject to StörfallVO.

Solvents Regulation (31st BImSchV)

No information available.

Other regulations, restrictions and prohibition regulations

no restriction

15.2. Chemical Safety Assessment

For this preparation a chemical safety assessment has been carried out. --

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Relevant H- and EUH-phrases (Number and full text):
Hazard statements

Training advice
none

Recommended restrictions of use:
none

Further remarks:
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storag

Documentation of changes:
none

Key literature references and sources for data
none

Abbreviations and acronyms
none

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Blocking out wax**

CAS No.: --
EC No.: --
UFI --
REACH No.: --

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

Relevant identified uses: wax.
Uses advised against: Other

1.3. Details of the supplier of the safety data sheet**Manufacturer**

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1.4. Emergency telephone number

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SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Regulation (EC) No 1272/2008:
Identification is not obligatory. Please observe the information on the safety data sheet at all times.

2.2. Label elements

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

Hazard pictograms

Signal word: -

Hazard statements:

-

Precautionary statements:

-

Special labelling of particular preparations:

none

2.3. Other hazards

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. The product does not have to be labelled according to guideline 67/548/EEC. Caution! Hot molten mass.

SECTION 3: Composition / information on ingredients

3.1. Substances

Mixtures

3.2. Mixtures

wax

Composition/information on ingredients

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
microcrystalline hard wax	63231-60-7			-	

(Full text of H- and EUH-statements: see section 16.)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Remove contaminated clothing immediately and dispose off safely.

In case of inhalation: Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

Following skin contact: After contact with molten product, cool skin area rapidly with cold water. Do not peel solidified product off the skin.

After eye contact: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion: Rinse mouth thoroughly with water.

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

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

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

After contact with molten product, cool skin area rapidly with cold water.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Sand. Foam. dry extinguishing powder. Carbon dioxide (CO₂).

Unsuitable High power water jet.

extinguishing media

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: When hot, product develops flammable vapours. Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x). carbon black

5.3. Advice for firefighters

General information

Use water spray jet to protect personnel and to cool endangered containers.

Special protective equipment for fire-fighters:

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear personal protection equipment. Remove all sources of ignition. Avoid contact with skin, eyes and clothes. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Allow stiffening. Take up mechanically.

6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid generation of dust. The following decomposition products result from melting: Equipment with built-in suction provisions. Provide adequate ventilation.

Precautions against fire and explosion:

Take precautionary measures against static discharges. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place. Put lids on containers immediately after use.

Hints on joint storage

Conditions to avoid: UV-radiation/sunlight.

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

occupational exposure limit value

Substance:	CAS-No.:		Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m ³]	Limitation of exposure peaks:	Remark:

Substance with a common (EC) occupational exposure limit value.

Substance:	CAS-No.:		Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m ³]	Limitation of exposure peaks:	Remark:

DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL

PNEC Value

Substance:	CAS-No.:	PNEC

Additional information

none

8.2. Exposure controls

Occupational exposure controls:

none

General protection and hygiene measures:

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

Personal protection equipment

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Hand protection

Respiratory protection necessary at: Protect skin by using skin protective cream.

Eye/face protection

At risk of splashing: Tightly sealed safety glasses.

Body protection:

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Environmental exposure controls

refer to chapter 7. No further action is necessary.

Consumer exposure controls

refer to chapter 7. No further action is necessary.

Exposure Scenario:

none

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state:	solid
Colour:	various
Odour:	characteristic
Odour threshold:	not determined

Safety relevant basis data

	parameter	Value	unit	Remark
Melting point/freezing point:		70-110	°C	drop point / drop range:
Initial boiling point and boiling range:				not determined
Flammability:				not determined
lower flammability or explosive limits:				not determined
Upper flammability or explosive limits:				not determined
Flash point:		> 200	°C	
Ignition temperature:				not determined
Decomposition temperature:				not determined
pH:				not applicable
Kinematic viscosity:	at °C:	<30	mPas	
Water solubility (g/L):				not determined
Partition coefficient: n-octanol/water:				not determined
Vapour pressure:				not applicable
Density:	approx.	0,93	g/cm ³	
Relative density:				not determined
Particle properties:				not determined

9.2. Other information

There are no data available on the mixture itself.

SECTION 10: Stability and reactivity

10.1. Reactivity

No risks worthy of mention. No data available

10.2. Chemical stability

Thermal decomposition

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

heat. UV-radiation/sunlight.

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on hazard classes within the meaning of Regulation (EC)

No. 1272/2008

Data apply to the main component.

M-factor: --

Acute toxicity (oral): --

Acute toxicity (dermal): --

Acute toxicity (inhalative): --

Acute toxicity

Substance:	CAS-No.:	Toxicological information
microcrystalline hard wax	63231-60-7	LD50 oral (rat) > 2000 mg/kg

Skin corrosion/irritation:

Toxicological data are not available.

Serious eye damage/irritation:

Toxicological data are not available.

Respiratory or skin sensitisation:

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

No indications of human carcinogenicity exist.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Reproductive toxicity:

Toxicological data are not available.

STOT-single exposure:

No information available.

STOT-repeated exposure:

No information available.

Aspiration hazard

Toxicological data are not available.

Additional information

11.2. Information about other hazards

11.2.1 Endocrine disrupting properties

11.2.2 Other Information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
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12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6 Endocrine disruptive effect

There are no data available on the mixture itself.

12.7. Other adverse effects

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal/Product:

Can be incinerated together with household waste in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

Appropriate disposal / Package

Dispose of waste according to applicable legislation.

List of proposed waste codes / waste designations according to EWC / AVV

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1. UN number

UN No.: --

14.2. UN proper shipping name

Land transport (ADR/RID)

--

--

Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

--

--

14.3. Transport hazard class(es)

Hazard label(s) / Label: --

Classification code: / Classification Code: --

14.4. Packing group

Packing group/ Packing Group: --

14.5. Environmental hazards

ADR/RID / IMDG / ICAO-TI / IATA-DGR:
Marine pollutant:

Yes
☐
☐

No
☒
☒

14.6. Special precautions for user

Land transport (ADR/RID)

transport category: --

Special provisions: --

tunnel restriction code: --

Limited quantity (LQ): --

Sea transport (IMDG)

EmS-No: --

Special provisions: -- Limited quantity (LQ): --

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remark No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer
No information available.

Regulation (EC) No 850/2004 [POP-Regulation]

Regulation (EU) No 649/2012 on the export and import of dangerous chemicals
No information available.

The substance/product is registered with strictly controlled conditions as defined in Article 18(4) of Regulation (EC) No. 1907/2006 (REACH Regulation) and must therefore be handled as such.
No information available.

National regulations

Observe in addition any national regulations!

Restrictions of occupation

No information available.

Restrictions of occupation

Not subject to StörfallVO.

Solvents Regulation (31st BImSchV)

No information available.

Other regulations, restrictions and prohibition regulations

none

15.2. Chemical Safety Assessment

For this preparation a chemical safety assessment has been carried out. --

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Relevant H- and EUH-phrases (Number and full text):

Hazard statements

-

Training advice

none

Recommended restrictions of use:

none

Further remarks:

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storag

Documentation of changes:

none

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

none

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Erkodur**

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CAS No.: --
EC No.: --
UFI --
REACH No.: --**1.2. Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses: Plastic articles
Uses advised against: Other**1.3. Details of the supplier of the safety data sheet****Manufacturer**ERKODENT Erich Kopp GmbH
Siemensstrasse 3
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D 72285 PfalzgrafenweilerTelephone +49 7445 8501 0
Telefax: +49 7445 8501-15**Supplier**ERKODENT Erich Kopp GmbH
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Website www.erkodent.com**1.4. Emergency telephone number**ERKODENT Erich Kopp GmbH
Only available during office hours.

Telephone +49 7445 8501 0

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**Regulation (EC) No 1272/2008:
Identification is not obligatory. Please observe the information on the safety data sheet at all times.**2.2. Label elements**

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

Hazard pictograms

-

Signal word: -

Hazard statements:

-

Precautionary statements:

-

Special labelling of particular preparations:

none

2.3. Other hazards

On basis of test data. This substance is classified as not hazardous according to 67/548/EEC.

SECTION 3: Composition / information on ingredients

3.1. Substances

Polymere

3.2. Mixtures

PET-G

Composition/information on ingredients

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
Polyethylenterephthalat PET-G	25640-14-6			-	

(Full text of H- and EUH-statements: see section 16.)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: No special measures are necessary.

In case of inhalation: Do not breathe dust. Dust should be exhausted directly at the point of origin. Inhalation of dust may cause irritation of the respiratory system.

Following skin contact: No special measures are necessary. After contact with molten product, cool skin area rapidly with cold water. Immerse in cold water for a prolonged period. Burns caused by molten material must be treated clinically. Irritating to skin. slightly irritant

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist. Irritating to eyes. Dust protection goggles.

After ingestion: No special measures are necessary.

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

No information available.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguishing powder. Carbon dioxide. alcohol resistant foam. Water spray.

Unsuitable extinguishing media High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. Sulphur dioxide (SO₂). Formaldehyde.

5.3. Advice for firefighters

General information

Use water spray jet to protect personnel and to cool endangered containers.

Special protective equipment for fire-fighters:

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid generation of dust. Dust must be exhausted directly at the point of origin.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Keep away from heat.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and dry.

Hints on joint storage

Conditions to avoid: UV-radiation/sunlight.

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

occupational exposure limit value

Substance:	CAS-No.:	Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
------------	----------	---------	---	---	-------------------------------	---------

Substance with a common (EC) occupational exposure limit value.

Substance:	CAS-No.:	Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
------------	----------	---------	---	---	-------------------------------	---------

DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL
------------	----------	-----------

PNEC Value

Substance:	CAS-No.:	PNEC
------------	----------	------

Additional information

none

8.2. Exposure controls

Occupational exposure controls:

none

General protection and hygiene measures:

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Take off immediately all contaminated clothing.

Personal protection equipment

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. Dust protection goggles.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Technical ventilation of workplace.

Hand protection

See chapter 7. No additional measures necessary.

Eye/face protection

Dust protection goggles.

Body protection:

Body protection: not required.

Environmental exposure controls

refer to chapter 7. No further action is necessary.

Consumer exposure controls

refer to chapter 7. No further action is necessary.

Exposure Scenario:

none

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid

Colour: various
Odour: characteristic
Odour threshold: No data available

Safety relevant basis data

	parameter	Value	unit	Remark
Melting point/freezing point:	Vicat	80	°C	
Initial boiling point and boiling range:				not determined
Flammability:				not determined
lower flammability or explosive limits:				not applicable
Upper flammability or explosive limits:				not applicable
Flash point:		>250	°C	
Ignition temperature:		400	°C	
Decomposition temperature:		> 280	°C	
pH:				not applicable
Kinematic viscosity:				not applicable
Water solubility (g/L):				
Partition coefficient: n-octanol/water:				not determined
Vapour pressure:				not applicable
Density:		1,27	g/cm ³	
Relative density:				not determined
Particle properties:				not determined

9.2. Other information

Observe technical data sheet.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

Reacts with : Solvents/Thinner Etchant and acids

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

UV-radiation/sunlight.

10.5. Incompatible materials

Acid. Base. Oxidising agent

10.6. Hazardous decomposition products

Hydrocarbons. Carbon dioxide (CO₂) Carbon monoxide. aldehydes

SECTION 11: Toxicological information

11.1. Information on hazard classes within the meaning of Regulation (EC)

No. 1272/2008

medical device product

Cytotoxtest: no abnormality detected)

M-factor: --

Acute toxicity (oral): --

Acute toxicity (dermal): --

Acute toxicity (inhalative): --

Acute toxicity

Substance:	CAS-No.:	Toxicological information
------------	----------	---------------------------

Skin corrosion/irritation:

In the case of the formation of dust.

Serious eye damage/irritation:

Irritating to eyes. In the case of the formation of dust.

Respiratory or skin sensitisation:

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

No indications of human carcinogenicity exist.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Reproductive toxicity:

Toxicological data are not available.

STOT-single exposure:

No information available.

STOT-repeated exposure:

No information available.

Aspiration hazard

Inhalation of dust may cause irritation of the respiratory system.

Additional information

11.2. Information about other hazards

11.2.1 Endocrine disrupting properties

11.2.2 Other Information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

none

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
------------	----------	-------------

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

not applicable

12.6 Endocrine disruptive effect

not applicable

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal/Product:

Can be incinerated together with household waste in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

Appropriate disposal / Package

Dispose of waste according to applicable legislation.

List of proposed waste codes / waste designations according to EWC / AVV

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1. UN number

UN No.: --

14.2. UN proper shipping name

Land transport (ADR/RID)

--

--

Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

--

--

14.3. Transport hazard class(es)

Hazard label(s) / Label: --

Classification code: / Classification Code: --

14.4. Packing group

Packing group/ Packing Group: --

14.5. Environmental hazards

ADR/RID / IMDG / ICAO-TI / IATA-DGR:

Yes
☐

No
☒

Marine pollutant:



14.6. Special precautions for user

Land transport (ADR/RID)

transport category: --

Special provisions: --

tunnel restriction code: --

Limited quantity (LQ): --

Sea transport (IMDG)

EmS-No: --

Special provisions: -- Limited quantity (LQ): --

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remark No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer
No information available.

Regulation (EC) No 850/2004 [POP-Regulation]

Regulation (EU) No 649/2012 on the export and import of dangerous chemicals
No information available.

The substance/product is registered with strictly controlled conditions as defined in Article 18(4) of Regulation (EC) No. 1907/2006 (REACH Regulation) and must therefore be handled as such.
No information available.

National regulations

Observe in addition any national regulations!

Restrictions of occupation

no restriction

Restrictions of occupation

Not subject to StörfallVO.

Solvents Regulation (31st BImSchV)

No information available.

Other regulations, restrictions and prohibition regulations

no restriction

15.2. Chemical Safety Assessment

For this preparation a chemical safety assessment has been carried out. --

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Relevant H- and EUH-phrases (Number and full text):
Hazard statements

Training advice
none

Recommended restrictions of use:
none

Further remarks:
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storag

Documentation of changes:
none

Key literature references and sources for data
none

Abbreviations and acronyms
none

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Erkogum

--

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

Relevant identified uses: Blocking out material
Uses advised against: Other

1.3. Details of the supplier of the safety data sheet**Manufacturer**

ERKODENT Erich Kopp GmbH
Siemensstrasse 3
--
D 72285 Pfalzgrafenweiler

Telephone +49 7445 8501 0
Telefax +49 7445 8501-15

Supplier

ERKODENT Erich Kopp GmbH
Siemensstrasse 3
--
D 72285 Pfalzgrafenweiler

Telephone +49 7445 8501 0
Telefax +49 7445 8501-15

Information contact

ERKODENT Erich Kopp GmbH

Information telephone +49 7445 8501 21
Information telefax +49 7445 8501-15
E-mail (competent person) w.heuchert@erkodent.com
Website www.erkodent.com

1.4. Emergency telephone number

ERKODENT Erich Kopp GmbH
Only available during office hours.

Telephone +49 7445 8501 0

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Regulation (EC) No 1272/2008:
Identification is not obligatory. Please observe the information on the safety data sheet at all times.

2.2. Label elements

Classification according to Regulation (EC) No 1272/2008 [CLP]
Hazard pictograms

Signal word:

Hazard statements:

Precautionary statements:

Special labelling of particular preparations:
none

2.3. Other hazards

On basis of test data. This substance is classified as not hazardous according to 67/548/EEC.

SECTION 3: Composition / information on ingredients

3.1. Substances

Mixtures

3.2. Mixtures

Filler

Composition/information on ingredients

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
Dodecamethylcyclohexasiloxane	540-97-6		0,1-1	Aquatic Chronic 4, H413; Eye Irrit. 2, H319	
Polydimethylsiloxan	63148-62-9			-	M = 0

(Full text of H- and EUH-statements: see section 16.)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: No special measures are necessary.
In case of inhalation: not applicable
Following skin contact: not applicable
After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water.
After ingestion: Rinse mouth thoroughly with water.

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

No information available.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂). Sand. Extinguishing powder. Water fog. Alcohol resistant foam.
Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. Sulphur dioxide (SO₂). Hydrogen chloride (HCl).

5.3. Advice for firefighters

General information

Co-ordinate fire-fighting measures to the fire surroundings.

Special protective equipment for fire-fighters:

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Allow stiffening. Take up mechanically.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

When using do not eat, drink or smoke.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool place.

Hints on joint storage

Do not store together with: Food and fodder Oxidizing agent

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

occupational exposure limit value

Substance:	CAS-No.:		Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:

Substance with a common (EC) occupational exposure limit value.

Substance:	CAS-No.:		Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:

DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL
------------	----------	-----------

PNEC Value

Substance:	CAS-No.:	PNEC
------------	----------	------

Additional information

none

8.2. Exposure controls

Occupational exposure controls:

none

General protection and hygiene measures:

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Take off immediately all contaminated clothing.

Personal protection equipment

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

none

Hand protection

Tested protective gloves are to be worn: EN ISO 374 Suitable material: Butyl caoutchouc (butyl rubber). FKM (fluoro rubber). NBR (Nitrile rubber). CR (polychloroprene, chloroprene rubber).

Eye/face protection

Eye protection: not required.

Body protection:

Protective clothing

Environmental exposure controls

refer to chapter 7. No further action is necessary.

Consumer exposure controls

refer to chapter 7. No further action is necessary.

Exposure Scenario:

none

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state:	Paste viscous
Colour:	various
Odour:	odourless
Odour threshold:	not determined

Safety relevant basis data

	parameter	Value	unit	Remark
Melting point/freezing point:				not applicable
Initial boiling point and boiling				not applicable

range:		
Flammability:		not determined
lower flammability or explosive limits:		not applicable
Upper flammability or explosive limits:		not applicable
Flash point:		not applicable
Ignition temperature:		none Risk of selfignition.
Decomposition temperature:	> 250 °C	
pH:		not applicable
Kinematic viscosity:		not determined
Water solubility (g/L):		
Partition coefficient: n-octanol/water:		not determined
Vapour pressure:		not applicable
Density:	1,2 g/cm ³	
Relative density:		not determined
Particle properties:		not determined

9.2. Other information

Solids content 100 (%)

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

none none

10.4. Conditions to avoid

UV-radiation/sunlight.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours. > Formaldehyde. No hazardous reaction when handled and stored according to provisions.

SECTION 11: Toxicological information

11.1. Information on hazard classes within the meaning of Regulation (EC) No. 1272/2008

Toxicological data are not available.

M-factor:	--	Acute toxicity (dermal):	--
Acute toxicity (oral):	--	Acute toxicity (inhalative):	--

Acute toxicity

Substance:	CAS-No.:	Toxicological information
Polydimethylsiloxan	63148-62-9	LD50 oral (rat) > 5000 mg/kg LD50 dermal > 2008 mg/kg

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

No indications of human carcinogenicity exist.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Reproductive toxicity:

No indications of human reproductive toxicity exist.

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 information

11.2. Information about other hazards

11.2.1 Endocrine disrupting properties

11.2.2 Other Information

Data arise from reference works and literature.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
Polydimethylsiloxan	63148-62-9	EC50 Algae (72 h) > 10000 mg/l

12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

not applicable

12.6 Endocrine disruptive effect

There are no data available on the mixture itself.

12.7. Other adverse effects

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal/Product:

Can be incinerated together with household waste in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

Appropriate disposal / Package

Dispose of waste according to applicable legislation.

List of proposed waste codes / waste designations according to EWC / AVV

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1. UN number

UN No.: --

14.2. UN proper shipping name

Land transport (ADR/RID)

--

--

Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

--

--

14.3. Transport hazard class(es)

Hazard label(s) / Label: --

Classification code: / Classification Code: --

14.4. Packing group

Packing group/ Packing Group: --

14.5. Environmental hazards

ADR/RID / IMDG / ICAO-TI / IATA-DGR:

Marine pollutant:

Yes

☐
☐

No

☒
☒

14.6. Special precautions for user

Land transport (ADR/RID)

transport category: --

tunnel restriction code: --

Special provisions: -- Limited quantity (LQ): --

Sea transport (IMDG)

EmS-No: --

Special provisions: -- Limited quantity (LQ): --

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remark No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer
No information available.

Regulation (EC) No 850/2004 [POP-Regulation]

Regulation (EU) No 649/2012 on the export and import of dangerous chemicals
No information available.

The substance/product is registered with strictly controlled conditions as defined in Article 18(4) of Regulation (EC) No. 1907/2006 (REACH Regulation) and must therefore be handled as such.
No information available.

National regulations

Observe in addition any national regulations!

Restrictions of occupation

none

Restrictions of occupation

Not subject to StörfallVO.

Solvents Regulation (31st BImSchV)

No information available.

Other regulations, restrictions and prohibition regulations

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: 540-97-6 Dodecamethylcyclohexasiloxan

15.2. Chemical Safety Assessment

For this preparation a chemical safety assessment has been carried out. --

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Relevant H- and EUH-phrases (Number and full text):

Hazard statements

H413 May cause long lasting harmful effects to aquatic life.

Training advice

none

Recommended restrictions of use:

none

Further remarks:

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storag

Documentation of changes:

none

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

Wording of the r-phrases under paragraph 3:

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Erkolen**

--

CAS No.: --
EC No.: --
UFI --
REACH No.: --**1.2. Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses: Plastic articles
Uses advised against: Other**1.3. Details of the supplier of the safety data sheet****Manufacturer**ERKODENT Erich Kopp GmbH
Siemensstrasse 3
--
D 72285 PfalzgrafenweilerTelephone +49 7445 8501 0
Telefax: +49 7445 8501-15**Supplier**ERKODENT Erich Kopp GmbH
Siemensstrasse 3
--
D 72285 PfalzgrafenweilerTelephone +49 7445 8501 0
Telefax: +49 7445 8501-15**Information contact**

ERKODENT Erich Kopp GmbH

Information telephone +49 7445 8501 21
Information telefax +49 7445 8501-15
E-mail (competent person) w.heuchert@erkodent.com
Website www.erkodent.com**1.4. Emergency telephone number**ERKODENT Erich Kopp GmbH
Only available during office hours.

Telephone +49 7445 8501 0

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**Regulation (EC) No 1272/2008:
Identification is not obligatory. Please observe the information on the safety data sheet at all times.**2.2. Label elements**

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

Hazard pictograms

-

Signal word: -

Hazard statements:

-

Precautionary statements:

-

Special labelling of particular preparations:

none

2.3. Other hazards

On basis of test data. This substance is classified as not hazardous according to 67/548/EEC.

SECTION 3: Composition / information on ingredients

3.1. Substances

Polymere

3.2. Mixtures

PE

Composition/information on ingredients

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
Polyethylen PE	9002-88-4		100 %	-	

(Full text of H- and EUH-statements: see section 16.)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: No special measures are necessary.

In case of inhalation: Do not breathe dust. Dust should be exhausted directly at the point of origin. Inhalation of dust may cause irritation of the respiratory system.

Following skin contact: No special measures are necessary. After contact with molten product, cool skin area rapidly with cold water. Immerse in cold water for a prolonged period. Burns caused by molten material must be treated clinically. Irritating to skin. slightly irritant

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist. Irritating to eyes. Dust protection goggles.

After ingestion: No special measures are necessary.

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

No information available.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguishing powder. Carbon dioxide. alcohol resistant foam. Water spray.

Unsuitable extinguishing media High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. Sulphur dioxide (SO₂). Formaldehyde.

5.3. Advice for firefighters

General information

Use water spray jet to protect personnel and to cool endangered containers.

Special protective equipment for fire-fighters:

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid generation of dust. Dust must be exhausted directly at the point of origin.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Keep away from heat.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and dry.

Hints on joint storage

Conditions to avoid: UV-radiation/sunlight.

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

occupational exposure limit value

Substance:	CAS-No.:	Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
------------	----------	---------	---	---	-------------------------------	---------

Substance with a common (EC) occupational exposure limit value.

Substance:	CAS-No.:	Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
------------	----------	---------	---	---	-------------------------------	---------

DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL
------------	----------	-----------

PNEC Value

Substance:	CAS-No.:	PNEC
------------	----------	------

Additional information

none

8.2. Exposure controls

Occupational exposure controls:

none

General protection and hygiene measures:

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Take off immediately all contaminated clothing.

Personal protection equipment

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. Dust protection goggles.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Technical ventilation of workplace.

Hand protection

See chapter 7. No additional measures necessary.

Eye/face protection

Dust protection goggles.

Body protection:

Body protection: not required.

Environmental exposure controls

refer to chapter 7. No further action is necessary.

Consumer exposure controls

refer to chapter 7. No further action is necessary.

Exposure Scenario:

none

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: solid

Colour: colourless
Odour: characteristic
Odour threshold: No data available

Safety relevant basis data

	parameter	Value	unit	Remark
Melting point/freezing point:	Vicat	94	°C	
Initial boiling point and boiling range:				not determined
Flammability:				not determined
lower flammability or explosive limits:				not applicable
Upper flammability or explosive limits:				not applicable
Flash point:			°C	not determined
Ignition temperature:			°C	not determined
Decomposition temperature:			°C	not determined
pH:				not applicable
Kinematic viscosity:				not applicable
Water solubility (g/L):				
Partition coefficient: n-octanol/water:				not determined
Vapour pressure:				not applicable
Density:		0,92	g/cm³	
Relative density:				not determined
Particle properties:				not determined

9.2. Other information

Observe technical data sheet.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

Reacts with : Solvents/Thinner Etchant and acids

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

UV-radiation/sunlight.

10.5. Incompatible materials

Acid. Base. Oxidising agent

10.6. Hazardous decomposition products

Hydrocarbons. Carbon dioxide (CO2) Carbon monoxide. aldehydes

SECTION 11: Toxicological information

11.1. Information on hazard classes within the meaning of Regulation (EC)

No. 1272/2008

Medizinprodukt/medical device product

Cytotoxtest: ohne Befund/no abnormality detected

M-factor: --

Acute toxicity (dermal): --

Acute toxicity (oral): --

Acute toxicity (inhalative): --

Acute toxicity

Substance:	CAS-No.:	Toxicological information
------------	----------	---------------------------

Skin corrosion/irritation:

In the case of the formation of dust.

Serious eye damage/irritation:

Irritating to eyes. In the case of the formation of dust.

Respiratory or skin sensitisation:

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

No indications of human carcinogenicity exist.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Reproductive toxicity:

Toxicological data are not available.

STOT-single exposure:

No information available.

STOT-repeated exposure:

No information available.

Aspiration hazard

Inhalation of dust may cause irritation of the respiratory system.

Additional information

11.2. Information about other hazards

11.2.1 Endocrine disrupting properties

11.2.2 Other Information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

No information available.

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
------------	----------	-------------

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

not applicable

12.6 Endocrine disruptive effect

There are no data available on the mixture itself.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal/Product:

Can be incinerated together with household waste in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

Appropriate disposal / Package

Dispose of waste according to applicable legislation.

List of proposed waste codes / waste designations according to EWC / AVV

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1. UN number

UN No.: --

14.2. UN proper shipping name

Land transport (ADR/RID)

--

--

Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

--

--

14.3. Transport hazard class(es)

Hazard label(s) / Label: --

Classification code: / Classification Code: --

14.4. Packing group

Packing group/ Packing Group: --

14.5. Environmental hazards

ADR/RID / IMDG / ICAO-TI / IATA-DGR:

Yes
☐

No
☒

Marine pollutant:



14.6. Special precautions for user

Land transport (ADR/RID)

transport category: --

Special provisions: --

tunnel restriction code: --

Limited quantity (LQ): --

Sea transport (IMDG)

EmS-No: --

Special provisions: -- Limited quantity (LQ): --

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remark No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer
No information available.

Regulation (EC) No 850/2004 [POP-Regulation]

Regulation (EU) No 649/2012 on the export and import of dangerous chemicals
No information available.

The substance/product is registered with strictly controlled conditions as defined in Article 18(4) of Regulation (EC) No. 1907/2006 (REACH Regulation) and must therefore be handled as such.
No information available.

National regulations

Observe in addition any national regulations!

Restrictions of occupation

no restriction

Restrictions of occupation

Not subject to StörfallVO.

Solvents Regulation (31st BImSchV)

No information available.

Other regulations, restrictions and prohibition regulations

no restriction

15.2. Chemical Safety Assessment

For this preparation a chemical safety assessment has been carried out. --

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Relevant H- and EUH-phrases (Number and full text):
Hazard statements

Training advice
none

Recommended restrictions of use:
none

Further remarks:
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storag

Documentation of changes:
none

Key literature references and sources for data
none

Abbreviations and acronyms
none

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Erkoloc-pro**

--

CAS No.: --
EC No.: --
UFI --
REACH No.: --**1.2. Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses: Plastic articles
Uses advised against: Other**1.3. Details of the supplier of the safety data sheet****Manufacturer**ERKODENT Erich Kopp GmbH
Siemensstrasse 3
--
D 72285 PfalzgrafenweilerTelephone +49 7445 8501 0
Telefax: +49 7445 8501-15**Supplier**ERKODENT Erich Kopp GmbH
Siemensstrasse 3
--
D 72285 PfalzgrafenweilerTelephone +49 7445 8501 0
Telefax: +49 7445 8501-15**Information contact**

ERKODENT Erich Kopp GmbH

Information telephone +49 7445 8501 21
Information telefax +49 7445 8501-15
E-mail (competent person) w.heuchert@erkodent.com
Website www.erkodent.com**1.4. Emergency telephone number**ERKODENT Erich Kopp GmbH
Only available during office hours.

Telephone +49 7445 8501 0

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**Regulation (EC) No 1272/2008:
Identification is not obligatory. Please observe the information on the safety data sheet at all times.**2.2. Label elements**

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

Hazard pictograms

-

Signal word: -

Hazard statements:

-

Precautionary statements:

-

Special labelling of particular preparations:

none

2.3. Other hazards

On basis of test data. This substance is classified as not hazardous according to 67/548/EEC.

SECTION 3: Composition / information on ingredients

3.1. Substances

Polymere

3.2. Mixtures

PET-G / TPU

Composition/information on ingredients

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
Thermoplastic Polyurethan TPU	9018-04-6		diff.	-	
Polyethylenterephthalat PET-G	25640-14-6		diff.	-	

(Full text of H- and EUH-statements: see section 16.)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: No special measures are necessary.

In case of inhalation: Do not breathe dust. Dust should be exhausted directly at the point of origin. Inhalation of dust may cause irritation of the respiratory system.

Following skin contact: No special measures are necessary. After contact with molten product, cool skin area rapidly with cold water. Immerse in cold water for a prolonged period. Burns caused by molten material must be treated clinically. Irritating to skin. slightly irritant

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist. Irritating to eyes. Dust protection goggles.

After ingestion: No special measures are necessary.

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

No information available.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguishing powder. Carbon dioxide. alcohol resistant foam. Water spray.
Unsuitable extinguishing media	High power water jet.

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. Sulphur dioxide (SO₂). Formaldehyde.

5.3. Advice for firefighters

General information

Use water spray jet to protect personnel and to cool endangered containers.

Special protective equipment for fire-fighters:

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid generation of dust. Dust must be exhausted directly at the point of origin.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Keep away from heat.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and dry.

Hints on joint storage

Conditions to avoid: UV-radiation/sunlight.

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

occupational exposure limit value

Substance:	CAS-No.:	Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
------------	----------	---------	---	---	-------------------------------	---------

Substance with a common (EC) occupational exposure limit value.

Substance:	CAS-No.:	Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
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DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL
------------	----------	-----------

PNEC Value

Substance:	CAS-No.:	PNEC
------------	----------	------

Additional information

none

8.2. Exposure controls

Occupational exposure controls:

none

General protection and hygiene measures:

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Take off immediately all contaminated clothing.

Personal protection equipment

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. Dust protection goggles.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Technical ventilation of workplace.

Hand protection

See chapter 7. No additional measures necessary.

Eye/face protection

Dust protection goggles.

Body protection:

Body protection: not required.

Environmental exposure controls

refer to chapter 7. No further action is necessary.

Consumer exposure controls

refer to chapter 7. No further action is necessary.

Exposure Scenario:

none

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state:	solid
Colour:	various
Odour:	characteristic
Odour threshold:	No data available

Safety relevant basis data

	parameter	Value	unit	Remark
Melting point/freezing point:	Vicat	80	°C	
Initial boiling point and boiling range:				not determined
Flammability:				not determined
lower flammability or explosive limits:				not applicable
Upper flammability or explosive limits:				not applicable
Flash point:			°C	not determined
Ignition temperature:			°C	not determined
Decomposition temperature:			°C	not determined
pH:				not applicable
Kinematic viscosity:				not applicable
Water solubility (g/L):				
Partition coefficient: n-octanol/water:				not determined
Vapour pressure:				not applicable
Density:		1,12 - 1,27	g/cm³	
Relative density:				not determined
Particle properties:				not determined

9.2. Other information

Observe technical data sheet.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

Reacts with : Solvents/Thinner Etchant and acids

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

UV-radiation/sunlight.

10.5. Incompatible materials

Acid. Base. Oxidising agent

10.6. Hazardous decomposition products

Hydrocarbons. Carbon dioxide (CO2) Carbon monoxide. aldehydes

SECTION 11: Toxicological information

11.1. Information on hazard classes within the meaning of Regulation (EC)

No. 1272/2008

Medizinprodukt/medical device product

Cytotoxtest: ohne Befund/no abnormality detected

M-factor: --

Acute toxicity (dermal): --

Acute toxicity (oral): --

Acute toxicity (inhalative): --

Acute toxicity

Substance:	CAS-No.:	Toxicological information
------------	----------	---------------------------

Skin corrosion/irritation:

In the case of the formation of dust.

Serious eye damage/irritation:

Irritating to eyes. In the case of the formation of dust.

Respiratory or skin sensitisation:

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

No indications of human carcinogenicity exist.

Germ cell mutagenicity:

No indications of human germ cell mutagenicity exist.

Reproductive toxicity:

Toxicological data are not available.

STOT-single exposure:

No information available.

STOT-repeated exposure:

No information available.

Aspiration hazard

Inhalation of dust may cause irritation of the respiratory system.

Additional information

11.2. Information about other hazards

11.2.1 Endocrine disrupting properties

11.2.2 Other Information

No information available.

SECTION 12: Ecological information

12.1. Toxicity

No information available.

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
------------	----------	-------------

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

not applicable

12.6 Endocrine disruptive effect

There are no data available on the mixture itself.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal/Product:

Can be incinerated together with household waste in compliance with applicable technical regulations following consultation with approved waste disposal management companies and authorities in charge.

Appropriate disposal / Package

Dispose of waste according to applicable legislation.

List of proposed waste codes / waste designations according to EWC / AVV

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1. UN number

UN No.: --

14.2. UN proper shipping name

Land transport (ADR/RID)

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Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

--

--

14.3. Transport hazard class(es)

Hazard label(s) / Label: --

Classification code: / Classification Code: --

14.4. Packing group

Packing group/ Packing Group: --

14.5. Environmental hazards

ADR/RID / IMDG / ICAO-TI / IATA-DGR:
Marine pollutant:

Yes
☐
☐

No
☒
☒

14.6. Special precautions for user

Land transport (ADR/RID)

transport category: --

Special provisions: --

tunnel restriction code: --

Limited quantity (LQ): --

Sea transport (IMDG)

EmS-No: --

Special provisions: -- Limited quantity (LQ): --

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remark No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer
No information available.

Regulation (EC) No 850/2004 [POP-Regulation]

Regulation (EU) No 649/2012 on the export and import of dangerous chemicals
No information available.

The substance/product is registered with strictly controlled conditions as defined in Article 18(4) of Regulation (EC) No. 1907/2006 (REACH Regulation) and must therefore be handled as such.
No information available.

National regulations

Observe in addition any national regulations!

Restrictions of occupation

no restriction

Restrictions of occupation

Not subject to StörfallVO.

Solvents Regulation (31st BImSchV)

No information available.

Other regulations, restrictions and prohibition regulations

no restriction

15.2. Chemical Safety Assessment

For this preparation a chemical safety assessment has been carried out. --

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Relevant H- and EUH-phrases (Number and full text):
Hazard statements

Training advice
none

Recommended restrictions of use:
none

Further remarks:
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storag

Documentation of changes:
none

Key literature references and sources for data
none

Abbreviations and acronyms
none

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Erkoskin**CAS No.: --
EC No.: --
UFI --
REACH No.: --**1.2. Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses: Protective film
Uses advised against: Other**1.3. Details of the supplier of the safety data sheet****Manufacturer**ERKODENT Erich Kopp GmbH
Siemensstrasse 3
--
D 72285 PfalzgrafenweilerTelephone +49 7445 8501 0
Telefax: +49 7445 8501-15**Supplier**ERKODENT Erich Kopp GmbH
Siemensstrasse 3
--
D 72285 PfalzgrafenweilerTelephone +49 7445 8501 0
Telefax: +49 7445 8501-15**Information contact**

ERKODENT Erich Kopp GmbH

Information telephone +49 7445 8501 21
Information telefax +49 7445 8501-15
E-mail (competent person) w.heuchert@erkodent.com
Website www.erkodent.com**1.4. Emergency telephone number**ERKODENT Erich Kopp GmbH
Only available during office hours.

Telephone +49 7445 8501 0

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**Regulation (EC) No 1272/2008:
Identification is not obligatory. Please observe the information on the safety data sheet at all times.**2.2. Label elements**

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

Hazard pictograms

Signal word: -

Hazard statements:

-

Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+352 IF ON SKIN: Wash with plenty of water/?.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P333+313 If skin irritation or rash occurs: Get medical advice/attention.
P337+313 If eye irritation persists: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.

Special labelling of particular preparations:

none

2.3. Other hazards

The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. The substance is classified as not hazardous according to Directive 67/548/EEC. Ammonia Processing vapours can irritate the respiratory tracts, skin and eyes. NR (natural rubber, natural latex) May cause an allergic skin reaction.

SECTION 3: Composition / information on ingredients

3.1. Substances

Mixtures

3.2. Mixtures

NR (natural rubber, natural latex) Mixtures

Composition/information on ingredients

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
Natural rubber Latex	9006-04-6			-	
ammonia water	1336-21-6			Met. Corr. 1, H290; Skin Corr. 1/1A/1B/1C, H314; STOT SE 3, H335; Aquatic Acute 1, H400	

(Full text of H- and EUH-statements: see section 16.)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: In all cases of doubt, or when symptoms persist, seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious place in recovery position and seek medical advice.

In case of inhalation: Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician in any case! Seek medical attention if problems persist.

Following skin contact: After contact with skin, wash immediately with plenty of water and soap. Seek medical attention if problems persist. In case of skin irritation, consult a physician.

After eye contact: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion: Medical examination necessary even merely on suspicion of intoxication.

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

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

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

In case of skin irritation, consult a physician.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂). Foam. Dry extinguishing powder. Water fog. Water spray.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Non-flammable liquids. Water $\geq$ 35 Vol-%

5.3. Advice for firefighters

General information

Co-ordinate fire-fighting measures to the fire surroundings.

Special protective equipment for fire-fighters:

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear personal protection equipment. Remove all sources of ignition. Avoid contact with skin, eyes and clothes. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean with detergents. Avoid solvent cleaners.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid contact with skin, eyes and clothes. Inhalation of vapours or spray/mists Avoid contact with skin, eyes and clothes.

Precautions against fire and explosion:

Non-flammable liquids.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place. Put lids on containers immediately after use.

Hints on joint storage

Conditions to avoid: UV-radiation/sunlight. Frost

7.3. Specific end use(s)

Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

occupational exposure limit value

Substance:	CAS-No.:		Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
------------	----------	--	---------	---	---	-------------------------------	---------

Substance with a common (EC) occupational exposure limit value.

Substance:	CAS-No.:		Source:	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m³]	Limitation of exposure peaks:	Remark:
------------	----------	--	---------	---	---	-------------------------------	---------

DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL
------------	----------	-----------

PNEC Value

Substance:	CAS-No.:	PNEC
------------	----------	------

Additional information

none

8.2. Exposure controls

Occupational exposure controls:

Ammoniak CAS 7664-41-7

MAK: 20 ml / 14 mg/m3

General protection and hygiene measures:

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

Personal protection equipment

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Hand protection

Tested protective gloves must be worn Tested protective gloves must be worn Skin contact

Eye/face protection

Tightly sealed safety glasses.

Body protection:

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Environmental exposure controls

refer to chapter 7. No further action is necessary. Do not allow to enter into surface water or drains.

Consumer exposure controls

refer to chapter 7. No further action is necessary.

Exposure Scenario:

none

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state:	Liquid
Colour:	blue
Odour:	Ammonia (NH ₃)
Odour threshold:	No data available

Safety relevant basis data

	parameter	Value	unit	Remark
Melting point/freezing point:				not applicable
Initial boiling point and boiling range:		100	°C	
Flammability:				not applicable
lower flammability or explosive limits:				not applicable
Upper flammability or explosive limits:				not applicable
Flash point:				not applicable
Ignition temperature:				none Risk of selfignition.
Decomposition temperature:				not applicable
pH:		10 - 12		
Kinematic viscosity:				not determined
Water solubility (g/L):				
Partition coefficient: n-octanol/water:				not determined
Vapour pressure:				not determined
Density:		0,947	g/cm ³	
Relative density:				not determined
Particle properties:				not determined

9.2. Other information

There are no data available on the mixture itself.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature. Keep container tightly closed.

10.3. Possibility of hazardous reactions

none Possibility of hazardous reactions

10.4. Conditions to avoid

heat. UV-radiation/sunlight. frost.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Hazardous decomposition products: none

SECTION 11: Toxicological information

11.1. Information on hazard classes within the meaning of Regulation (EC)

No. 1272/2008

Toxicological data are not available.

M-factor: --

Acute toxicity (dermal): --

Acute toxicity (oral): --

Acute toxicity (inhalative): --

Acute toxicity

Substance:	CAS-No.:	Toxicological information
------------	----------	---------------------------

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

May cause sensitization by inhalation and skin contact.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity:

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

Germ cell mutagenicity:

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 information

11.2. Information about other hazards

11.2.1 Endocrine disrupting properties

11.2.2 Other Information

Data arise from reference works and literature.

SECTION 12: Ecological information

12.1. Toxicity

There are no data available on the mixture itself.

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
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12.2. Persistence and degradability

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6 Endocrine disruptive effect

No known endocrine disrupting properties

12.7. Other adverse effects

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal/Product:

Dispose of waste according to applicable legislation. Send to a physico-chemical treatment facility under observation of official regulations. Send to a hazardous waste incinerator facility under observation of official regulations. Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package

Send to a hazardous waste incinerator facility under observation of official regulations. Handle contaminated packages in the same way as the substance itself.

List of proposed waste codes / waste designations according to EWC / AVV

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1. UN number

UN No.: --

14.2. UN proper shipping name

Land transport (ADR/RID)

--
--

Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

--
--

14.3. Transport hazard class(es)

Hazard label(s) / Label: --

Classification code: / Classification Code: --

14.4. Packing group

Packing group/ Packing Group: --

14.5. Environmental hazards

ADR/RID / IMDG / ICAO-TI / IATA-DGR:
Marine pollutant:

Yes
☐
☐

No
☒
☒

14.6. Special precautions for user

Land transport (ADR/RID)

transport category: --

Special provisions: --

tunnel restriction code: --

Limited quantity (LQ): --

Sea transport (IMDG)

EmS-No: --

Special provisions: -- Limited quantity (LQ): --

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remark No dangerous good in sense of these transport regulations.

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer
No information available.

Regulation (EC) No 850/2004 [POP-Regulation]

Regulation (EU) No 649/2012 on the export and import of dangerous chemicals
No information available.

The substance/product is registered with strictly controlled conditions as defined in Article 18(4) of Regulation (EC) No. 1907/2006 (REACH Regulation) and must therefore be handled as such.
No information available.

National regulations

Observe in addition any national regulations!

Restrictions of occupation

no restriction

Restrictions of occupation

Not subject to StörfallVO.

Solvents Regulation (31st BImSchV)

No information available.

Other regulations, restrictions and prohibition regulations

none

15.2. Chemical Safety Assessment

For this preparation a chemical safety assessment has been carried out. --

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Relevant H- and EUH-phrases (Number and full text):

Hazard statements

H290 May be corrosive to metals.

Training advice

none

Recommended restrictions of use:

none

Further remarks:

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storag

Documentation of changes:

none

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

none