

Product: Giroform Sundries

Category: Folio Papers - Carbonless

Country of origin: Germany

Technical specifications:

- Elemental chlorine free carbonless paper, coated on the front side with the colour receiving coating. Not pressure sensitive and can therefore be handles as normal coated paper.
- Used as the bottom sheet of the carbonless set. For all kinds of multipart sets such as self-separating sets and quick release sets.
- Tints available: White, chamois

Properties	Value	Unit	Test method
Substance	170 ± 4%	g/m ²	DIN ISO 536
	45.2 ± 4%	lbs	
Caliper	205 ± 8	µm	DIN EN 20534
Stiffness MD	> 14	mN	DIN 53121
Stiffness CD	> 4	mN	DIN 53121
Tensile strength MD	> 70	N	EN ISO 1924-2
Tensile strength CD	> 30	N	EN ISO 1924-2
Smoothness	> 25	Bekk s	DIN 53107
Humidity, relative	50 ± 8	%	DIN 53118
Brightness R457 w. UV	98 ± 3	%	ISO 2470
Certificates	ISO 9001	ISO 14001	ISO 50001
	FSC® Mix	PEFC™	

Material Safety Data Sheet according to regulations (EC) No. 1907/2006 & 1272/2008

Giroform Desensitizing Ink

publish date: 16.02.2016

Version 1.0

revision date: –

printing date: 01.03.2017

1. Identification of the product and company

1.1 Product identifier

Giroform Desensitizing Ink

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

Application of the substance / the preparation: Desensitizing Ink for offset printing.**Uses advised against:** Uses other than those identified are not recommended.

1.3 Details of the supplier of the safety data sheet

Manufacturer / supplier

Mitsubishi HiTec Paper Europe GmbH

Niedernholz 23

33699 Bielefeld

Germany

Phone: +49 521 2091 0 (24 h)

Fax: +49 521 2091 411

E-mail: info@mitsubishi-paper.com

1.4 Emergency telephone number

Phone: +49 761 19240 (poison information centre Freiburg, Germany)

Phone: +43 1 406 43 43 (poison information centre Austria)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to regulation (EC) No. 1272/2008

Not classified as dangerous.

Classification according to directive 67/548/EEC or directive 1999/45/EC

Not classified as dangerous.

2.2 Label elements

This product does not require labeling.

2.3 Other Hazards

No information available.

Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

3. Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Hazardous components

void

4. First aid measures

4.1 Description of first aid measures

General advice

No special measures required.

In all cases of doubt, or when symptoms persist, seek medical advice. Never give anything by mouth to an unconscious person.

After inhalation

No adverse effects anticipated by this route of exposure. Otherwise: move person to fresh air.

After skin contact

Do not use solvents or thinners. Take off contaminated clothing. Wash skin with soap and plenty of water. Apply skin lotion or lanolin cream after washing.

After eye contact

Remove contact lenses, if present. Hold eyes open and rinse slowly and gently with water for at least 15 minutes. If symptoms persist, consult an ophthalmologist.

After swallowing

Keep the affected person calm. Do not induce vomiting, seek medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents

Water with full jet.

5.2 Special hazards arising from the substance or mixture

In case of fire, formation of toxic gases/vapors is possible.

5.3 Advice for firefighters

Special protective equipment for firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus.

Additional information

Fight fire with normal precautions from a reasonable distance and take into account other materials. Keep adjacent containers cool by spraying with water. Collect contaminated firefighting water separately. It must not enter drains. Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary and unprotected personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with eyes, skin and clothing. Ensure adequate ventilation.

6.2 Environmental precautions

Stop leak if safe to do so. Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up.

Approach suspected leak areas with caution. If possible, stop flow of product. Take measures to prevent spreading of product. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product. Place the absorbed materials into appropriate container for later disposal. Disposal must be made according to official regulations. Wash up traces preferably with a water or detergent. Do not use solvents, if possible.

6.4 Reference to other sections

See Section 5 for firefighting information.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

7. Handling and storage

7.1 Protection for safe handling

Handle and open container with care. Handle all packages and containers carefully to minimize spills. Avoid splashing and spilling. Keep container closed when not in use. Avoid contact with eyes. Avoid prolonged contact with skin. Take off contaminated clothing and wash it before re-use.

Normal precautions taken when handling chemicals should be observed. Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of work. Preventive skin protection recommended. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Store tightly closed container in a dry and well-ventilated place protected from frost and high temperatures. Recommended storage temperature: 10 – 30 °C. Only use containers specially approved for the substance/product. Protect from heat and direct sunlight. Keep away from food and drugs.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. Exposure controls/personal protection

8.1 Control parameters

Components with critical values that require monitoring at the workplace

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

8.2 Exposure controls

Additional notes concerning the design of technical installations

No further data; see chapter 7.

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed. Technical measures and the application of suitable work processes have priority over personal protection equipment. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Do not eat, drink or smoke when using this product. Wash hands during breaks and at the end of the work. Remove contaminated clothing and protective equipment before entering eating areas.

Breathing equipment

Respiratory protection is not typically required under normal conditions of use and correctly handling operations.

Protection of hands

For direct skin contact, the use of impermeable gloves is recommended.

Glove material: The glove material has to be impermeable and resistant to the product. Nitrile rubber gloves with layer thickness 0.11 mm are recommended. 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.

Breakthrough time of glove material: The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Check protective gloves prior to each use for their proper condition. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. After use of gloves apply skin-cleaning agents and skin cosmetics.

Eye protection

The wearing of safety eyeglasses is recommended.

Body protection

The wearing of protective clothing is recommended.

8.3 Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water.

9. Physical and chemical properties

9.1 General information

Form:	paste-like
Colour:	white
Smell:	weak, characteristic
Odour threshold:	not determined

9.2 Important health, safety and environmental information.

pH-value:	not determined
Melting point/Melting range:	not determined
Boiling point/Boiling range:	not determined
Sublimation point:	not determined
Decomposition temperature:	not determined
Flash point:	> 150 °C
Flammability (solid, gas):	not applicable
Self-inflammability:	not determined
Danger of explosion:	Product is not explosive.
Vapour pressure:	not determined
Density (20 °C):	1.00 g/cm ³
Vapour density:	not determined
Water solubility:	not miscible
Partition coefficient (n-octanol/water):	not determined
Dynamic viscosity (20 °C):	15000 mPas
Evaporation rate:	not determined

9.3 Other information

No further relevant information available.

10. Stability and reactivity

10.1 Chemical stability

This product is stable under the recommended storage and handling conditions.

10.2 Reactivity

Refer to sections 10.3 and 10.5.

10.3 Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

At high temperatures create: carbon oxides (CO, CO₂), smoke und nitrogen gases (NO_x).

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral LD₅₀ > 2000 mg/kg (rate)

Primary irritation

Negative (dermal, rabbit).

Sensitization

Negative (Magnusson & Kligman test method, guinea pig).

11.2 Other information

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us. If splashed in the eyes, the product may cause irritation and reversible damage.

12. Ecological information

12.1 Toxicity

No further relevant information available.

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.

General notes: there are currently no ecotoxicological assessments available. Do not allow product to reach sewage system or any water course.

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

No further relevant information available.

Water hazard class: see section 15.

13. Disposal considerations

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations. It is the responsibility of the waste generator to determine the proper waste classification and disposal methods in compliance with applicable regulations. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Product:

Disposal of product residue should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid discharge into drains, water courses or onto the ground.

Packaging:

Contaminated packaging should be emptied as far as possible and can be supplied after being thoroughly cleaned for reuse. Packaging that cannot be cleaned should be disposed of like the product. Regulations concerning reuse or disposal of used packaging materials must be observed.

14. Transport information

14.1 UN-Number (ADR, IMDG, IATA)

Not applicable

14.2 UN proper shipping name (ADR, IMDG, IATA)

Not applicable

14.3 Transport hazard class(es) (ADR, IMDG, IATA)

Void. No transport warning sign required.

14.4 Packing group (ADR, IMDG, IATA)

Not applicable

14.5 Environmental hazard

No

14.6 Special precautions for user

Not classified as a dangerous good under transport regulations.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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

Not applicable

15. Regulatory information

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

Water hazard class

WGK 1 (self-assessment): slightly hazardous for water.

Information about limitation of use

Please consider possible restrictions of occupation after maternity protection guideline regulation or law for the protection of young workers.

Other regulations, restrictions and prohibition regulations

Regulation (EU) 1272/2008 (CLP/GHS)
Regulation (EU) 1907/2006/EG (REACH)
Directive 2008/98/EC (waste management)
Directive 94/62/EC (packaging and packaging waste)

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

16. Other information

Abbreviations and acronyms

ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BGI	Berufsgenossenschaftliche Informationen (information provided by the employer's liability insurance association)
BGR	Berufsgenossenschaftliche Regeln (regulations provided by the employer's liability insurance association)
CLP	Classification, Labelling and Packaging (regulation No. 1272/2008/EC)
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD ₅₀	Lethal Dose, 50 percent
MARPOL	Marine Pollutant (international convention for the prevention of marine pollution from ships)
PBT	Persistent, bioaccumulative and toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
vPvB	very Persistent and very Bioaccumulative

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. All standard industrial protections apply, concerning protection of health, environment and safe handling.

Material Safety Data Sheet according to regulations (EC) No. 1907/2006 & 1272/2008

Giroform Selbsttrennleim / Fanapart

publish date: 30.10.2013

Version 2.2

revision date: 19.09.2016

printing date: 20.09.2016

1. Identification of the product and company *

1.1 Product identifier

Giroform Selbsttrennleim / Fanapart

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

Application of the substance / the preparation: adhesive for giroform form-sets.**Uses advised against:** Uses other than those identified are not recommended.

1.3 Details of the supplier of the safety data sheet

Manufacturer / supplier

Mitsubishi HiTec Paper Europe GmbH

Niedernholz 23

33699 Bielefeld

Germany

Phone: +49 521 2091 0 (24 h)

Fax: +49 521 2091 411

E-mail: info@mitsubishi-paper.com

1.4 Emergency telephone number

Phone: +49 761 19240 (poison information centre Freiburg, Germany)

Phone: +43 1 406 43 43 (poison information centre Austria)

2. Hazards identification *

2.1 Classification of the substance or mixture

Classification according to regulation (EC) No. 1272/2008

Not classified as dangerous.

Classification according to directive 67/548/EEC or directive 1999/45/EC

Not classified as dangerous.

2.2 Label elements

This product does not require labeling.

2.3 Other Hazards

No information available.

Results of PBT and vPvB assessment

PBT: not applicable

vPvB: not applicable

3. Composition/information on ingredients *

3.1 Substances

Not applicable

3.2 Mixtures

Chemical description

Water based dispersion adhesive.

3.3 Hazardous components

This product does not contain any substances classified as dangerous, whose concentration exceeds the concentration limits described in article 3.2.2 (annex II, regulation no. 1907/2006/EC).

4. First aid measures *

4.1 Description of first aid measures

General advice

No special measures required.

After inhalation

Unlikely route to exposure as the product does not contain volatile substances.

After skin contact

Take off contaminated clothing. Wash skin with soap and plenty of water. Apply skin lotion or lanolin cream after washing. In the case of skin irritation or allergic reactions see a physician.

After eye contact

Remove contact lenses, if present. Hold eyes open and rinse slowly and gently with water for at least 15 minutes. Subsequently consult an ophthalmologist.

After swallowing

Keep the affected person calm. Rinse out mouth with water and give plenty of water to drink. Never give anything by mouth to an unconscious person. During spontaneous vomiting hold the head of the casualty low with the body in a prone position in order to avoid aspiration. In the event of persistent symptoms seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Eye irritation signs and symptoms may include a burning sensation and a temporary redness of the eye. Skin irritation signs and symptoms may include a burning sensation, redness, itchiness, and/or skin rash. Ingestion of large quantities may cause serious discomfort.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Firefighting measures

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5.1 Extinguishing media

Suitable extinguishing agents

This product is not flammable. Use fire-extinguishing media suitable for the surrounding fire (e.g. foam, carbon dioxide (CO₂), extinguishing powder).

For safety reasons unsuitable extinguishing agents

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

In case of fire, formation of carbon oxides (CO, CO₂), nitrogen oxides (NO_x) and other toxic and corrosive gases/vapors is possible.

5.3 Advice for firefighters

Special protective equipment for firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus.

Additional information

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Follow the general fire precautions indicated in the workplace. Fight fire with normal precautions from a reasonable distance and take into account other materials. Keep adjacent containers cool by spraying with water. Collect contaminated firefighting water separately. It must not enter drains. Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

6. Accidental release measures *

6.1 Personal precautions, protective equipment and emergency procedures

Keep unnecessary and unprotected personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with eyes, skin and clothing. Spills may be slippery.

6.2 Environmental precautions

Stop leak if safe to do so. Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground.

6.3 Methods and material for containment and cleaning up.

Approach suspected leak areas with caution. If possible, stop flow of product. Take measures to prevent spreading of product. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product. Place the absorbed materials into appropriate container for later disposal. Disposal must be made according to official regulations. Flush away traces with water. Beware risk of slipping.

6.4 Reference to other sections

See Section 5 for firefighting information.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 10 for information on incompatible materials.
See Section 13 for information on disposal.

7. Handling and storage *

7.1 Protection for safe handling

Wear appropriate personal protective equipment as specified in section 8. Handle and open container with care. Handle all packages and containers carefully to minimize spills. Avoid splashing and spilling. Keep container closed when not in use. Avoid contact with eyes. Avoid prolonged contact with skin and clothing. Take off contaminated clothing and wash it before re-use.

Normal precautions taken when handling chemicals should be observed. Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of work. Preventive skin protection recommended. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container tightly closed in a cool, dry and well-ventilated place protected from frost and high temperatures. Recommended storage temperature: 5 – 30 °C. Keep away from food and drugs. Keep container in the upright position to prevent leakage.

7.3 Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

8. Exposure controls/personal protection *

8.1 Control parameters

Components with critical values that require monitoring at the workplace

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

8.2 Exposure controls

Engineering controls

Ensure good ventilation at the workplace. Provide washing facilities in the workplace. Have emergency eyewash station / safety shower available in work area and conspicuously mark them.

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed. Technical measures and the application of suitable work processes have priority over personal protection equipment. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. Wash hands during breaks and at the end of the work. Remove contaminated clothing and protective equipment before entering eating areas.

Breathing equipment

Respiratory protection is not typically required under normal conditions of use and correctly handling operations.

Protection of hands

For direct skin contact, the use of impermeable gloves is recommended.

Glove material: The glove material has to be impermeable and resistant to the product. Nitrile rubber gloves with layer thickness 0.11 mm are recommended. 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.

Breakthrough time of glove material: The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Check protective gloves prior to each use for their proper condition. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. After use of gloves apply skin-cleaning agents and skin cosmetics.

Eye protection

The wearing of safety eyeglasses with side protection is recommended.

Body protection

No special body protection is required for use of this product.

8.3 Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water.

9. Physical and chemical properties

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9.1 General information

Form:	liquid
Colour:	white
Smell:	characteristic
Odour threshold:	not determined

9.2 Important health, safety and environmental information.

pH-value:	4 – 5
Melting point/Melting range:	not determined
Boiling point/Boiling range:	~ 100 °C
Sublimation point:	not applicable
Decomposition temperature:	not determined
Flash point:	not applicable
Flammability (solid, gas):	Product is not flammable
Self-inflammability:	Product is not self-igniting
Danger of explosion:	Product is not explosive.
Oxidizing properties:	not applicable
Vapour pressure (20 °C):	not determined
Density (20 °C):	1.00 – 1.06 g/cm ³
Vapour density:	not determined
Water solubility:	miscible
Partition coefficient (n-octanol/water):	not determined
Dynamic viscosity (20 °C):	approx. 20 mPas
Evaporation rate:	not determined

9.3 Other information

No further relevant information available.

10. Stability and reactivity *

10.1 Chemical stability

This product is stable under the recommended storage conditions.

10.2 Reactivity

Refer to sections 10.3 and 10.5.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

Avoid freezing and high temperatures.

10.5 Incompatible materials

Avoid contact with strong oxidizing agents and water-reactive chemicals.

10.6 Hazardous decomposition products

The thermal decomposition is highly dependent on external conditions. It forms a complex mixture of solids, liquids and gases in the air, including carbon oxides (CO, CO₂) and nitrogen oxides (NO_x), if the material is burned degraded thermally or by oxidation.

11. Toxicological information *

11.1 Information on toxicological effects

Acute toxicity

Components that may contribute to the acute toxicity: void

Likely routes of exposure

Skin and eye contact are the primary routes of exposure, although exposure may occur following accidental ingestion.

Skin corrosion/irritation

May cause slight or mild, temporary skin irritation.

Serious eye damage/eye irritation

May cause slight or mild, temporary eye irritation.

Respiratory/skin sensitization

No sensitizing effects known.

Germ cell mutagenicity

The product is not classified as a mutagen.

Carcinogenicity

The product is not classified as a carcinogen.

Reproductive toxicity

The product is not classified as a reproductive toxicant.

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 Other information

No further relevant information available.

12. Ecological information

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12.1 Toxicity

Components that may contribute to the acute or chronic aquatic toxicity: void

12.2 Persistence and degradability

The product is biodegradable.

12.3 Bioaccumulative potential

The product is not bioaccumulating.

12.4 Mobility in soil

The product contains substances which are water-soluble and may spread in water systems.

12.5 Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6 Other adverse effects

No further relevant information available.

Water hazard class: see section 15.

13. Disposal considerations *

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations. It is the responsibility of the waste generator to determine the proper waste classification and disposal methods in compliance with applicable regulations. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Product:

Disposal of product residue should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid discharge into drains, water courses or onto the ground.

Packaging:

Contaminated packaging should be emptied as far as possible and can be supplied after being thoroughly cleaned for reuse. Regulations concerning reuse or disposal of used packaging materials must be observed.

Recommended cleansing agent: Water, if necessary together with cleansing agents.

14. Transport information *

14.1 UN-Number (ADR, IMDG, IATA)

Not applicable

14.2 UN proper shipping name (ADR, IMDG, IATA)

Not applicable

14.3 Transport hazard class(es) (ADR, IMDG, IATA)

No transport warning sign required.

14.4 Packing group (ADR, IMDG, IATA)

Not applicable

14.5 Environmental hazard

No

14.6 Special precautions for user

Not classified as a dangerous good under transport regulations.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.

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

Not applicable

15. Regulatory information

*

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

Water hazard class

WGK 1: slightly hazardous for water.

Information about limitation of use

The employment limitations under the regulations to the protection from hazardous materials of pregnant women and young mothers guideline and the protection of young persons act (94/33/EC) are to be observed!

Other regulations, restrictions and prohibition regulations

Regulation (EU) 1272/2008 (CLP/GHS)

Regulation (EU) 1907/2006/EG (REACH)

Directive 2008/98/EC (waste management)

Directive 94/62/EC (packaging and packaging waste)

BGI 623 Decanting liquids

A 008 Personal protective equipment

BGR 189 Rules for the use of protective clothing

BGR 190 Rules for the use of respiratory protective equipment

BGR 192 Rules for the use of eye and face protection

BGR 195 Rules for the use of protective gloves

BGR 197 Use of skin protection

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

16. Other information *

Abbreviations and acronyms

ADR	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
BGI	Berufsgenossenschaftliche Informationen (information provided by the employer's liability insurance association)
BGR	Berufsgenossenschaftliche Regeln (regulations provided by the employer's liability insurance association)
CLP	Classification, Labelling and Packaging (regulation No. 1272/2008/EC)
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
MARPOL	Marine Pollutant (international convention for the prevention of marine pollution from ships)
PBT	Persistent, bioaccumulative and toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
vPvB	very Persistent and very Bioaccumulative
WGK	Wassergefährdungsklasse (water hazard class)

Wording of the H phrases under section 2 and 3 according to regulation (EC) No. 1272/2008 (CLP)

Not applicable

Data sources

These data are based on information submitted by pre-suppliers.
ECHA, European Chemicals Agency.

Documentation of changes

The material safety data sheet has been revised. Changes in the respective chapters are characterized in the right side edge by *. This version of the SDS supersedes all previous versions.

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. All standard industrial protections apply, concerning protection of health, environment and safe handling.