

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec 2K-Sealcon 827 (Component A)
Floortec 2K-Sealcon 827 (Komponente A)
Revision date : 28.09.2021
Print date : 28.09.2021

Version (Revision) : 2.0.0 (1.0.0)

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

1.1 Product identifier

Floortec 2K-Sealcon 827 (Component A)
Floortec 2K-Sealcon 827 (Komponente A)

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

Products Category [PC]

PC1 - Adhesives, sealants

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Brillux GmbH & Co KG
www.brillux.de

Street : Weseler Straße 401

Postal code/city : D - 48163 Münster

Telephone : +49 (0)251-7188-0

Telefax : +49 (0)251-7188-280

Information contact :

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.):

(Giftinformationszentrum-Nord, Göttingen, consultation in german or english language)

Telephone: +49 (0)551-19240.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

Resp. Sens. 1 ; H334 - Sensitisation to the respiratory tract : Category 1 ; May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

2.2 Label elements

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

Hazard pictograms



Health hazard (GHS08) · Exclamation mark (GHS07)

Signal word

Danger

Hazard components for labelling

POLYISOCYANATE, AROMATIC - PREPOLYMER ; CAS No. : 37273-56-6

HEXAMETHYLENE-DI-ISOCYANATE-OLIGOMERS ; CAS No. : 28182-81-2

4-METHYL-M-PHENYLENE DIISOCYANATE ; CAS No. : 584-84-9

Hazard statements

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H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H332 Harmful if inhaled.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

Precautionary statements

P501 Dispose of contents/container to approved disposal company or local collection.
P102 Keep out of reach of children.
P261 Avoid breathing vapours.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

Special rules for supplemental label elements for certain mixtures

EUH204 Contains isocyanates. May produce an allergic reaction.
EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3 Other hazards

Adverse environmental effects

The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

Mixture based on components, which are called following, and other components.

Hazardous ingredients

POLYISOCYANATE, AROMATIC - PREPOLYMER ; CAS No. : 37273-56-6

Weight fraction : $\geq 50 - < 100$ %
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 STOT SE 3 ; H335

TITANIUM DIOXIDE ; EC No. : 236-675-5; CAS No. : 13463-67-7

Weight fraction : $< 2,5$ %
Classification 1272/2008 [CLP] : Carc. 2 ; H351i

HEXAMETHYLENE-DI-ISOCYANATE-OLIGOMERS ; REACH No. : 01-2119485796-17 ; EC No. : 931-274-8; CAS No. : 28182-81-2

Weight fraction : $< 2,5$ %
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H332 Skin Sens. 1 ; H317 STOT SE 3 ; H335

4-METHYL-M-PHENYLENE DIISOCYANATE ; REACH No. : 01-2119454791-34 ; EC No. : 209-544-5; CAS No. : 584-84-9

Weight fraction : $< 0,5$ %
Classification 1272/2008 [CLP] : Acute Tox. 2 ; H330 Resp. Sens. 1 ; H334 Carc. 2 ; H351 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H335 Aquatic Chronic 3 ; H412

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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according to Regulation (EC) No. 1907/2006 (REACH)



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General information

In all cases of doubt, or when symptoms persist, seek medical attention. Immediately remove all contaminated clothing. In case of unconsciousness: lay on side - call a doctor. Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.

Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Irregular breathing/no breathing: artificial respiration. Call a doctor and tell him the exactly substance.

In case of skin contact

Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Do NOT use solvents or thinners. If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical advice if complaint continues.

After ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

4.2 Most important symptoms and effects, both acute and delayed

Potential symptoms: Headache, dizziness, giddiness, skin irritation, eye irritation and irritation to respiratory tract are possible. Allergic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

In case of fire: Use alcohol resistant foam, CO₂, powders or water spray for extinction.

Unsuitable extinguishing media

In case of fire: Do not use waterjet for extinction.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Formation of toxic gases is possible during heating or in case of fire: Carbon monoxide (CO), nitrogen oxide (NO_x), vapour of isocyanate and traces of hydrogen cyanide (HCN).

5.3 Advice for firefighters

Special protective equipment for firefighters

At a fire caused by the product a breathing apparatus with an independent source of air is to have ready and to use if necessary for the firefighting. Personnel should wear protective clothings.

5.4 Additional information

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep no protective persons away, personal should wear protective clothings. Avoid contact with eyes and skin.

6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Holding polluted washing water back and disposing of duly.

6.3 Methods and material for containment and cleaning up

For cleaning up

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Absorb with liquid-binding material (sand, diatomite, acid-binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.
You find information about the safety equipment of persons in the section 8,
information about the refuse disposal in section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Ensure a good ventilation in room and working area. Only use the material in places where open light, fire and other flammable sources can be kept away. For personal protection see Section 8. Avoid contact with skin and eyes. Read label before use.

Measures to prevent fire

No special precautionary measure necessary. Keep away from ignition sources - No smoking. Cool endangered containers with water.

Measures to prevent aerosol and dust generation

Prevent formation of aerosols.

Advices on general occupational hygiene

While working do not eat, drink or smoke. Immediately remove all contaminated clothing. Wash hands and face before breaks and after work and take a shower if necessary.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly in a dry, cool and good ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Do not store the product in lounge room. Keep only in the original container. Keep out of the reach of children.

Hints on joint storage

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Store away from foodstuffs.

Storage class (TRGS 510) : 10

Further information on storage conditions

Keep container tightly sealed. Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Store at 5°-35°C. Containers should be kept dry and sealed.

7.3 Specific end use(s)

For using the product observe the information in the Technical data sheet of the product.

Industrial sector specific solutions

GISCODE : Product code in accordance to GISBAU (hazardous materials information system of the German professional associations of the building and construction industry): PU60.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

4-METHYL-M-PHENYLENE DIISOCYANATE ; CAS No. : 584-84-9

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 0,005 ppm / 0,035 mg/m³

Peak limitation : 1/=4=(I)

Remark : AGS,11,12,Sa

Version : 01.07.2013

Remark

Taking into account the details mentioned in the TRGS 900 for the supervision of AGW.

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DNEL-/PNEC-values

DNEL/DMEL

Limit value type : DNEL worker (local) (POLYISOCYANATE, AROMATIC - PREPOLYMER ; CAS No. : 37273-56-6)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 0,29 mg/m³
Limit value type : DNEL worker (local) (POLYISOCYANATE, AROMATIC - PREPOLYMER ; CAS No. : 37273-56-6)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 0,58 mg/m³

PNEC

Limit value type : PNEC (Aquatic, freshwater) (POLYISOCYANATE, AROMATIC - PREPOLYMER ; CAS No. : 37273-56-6)
Limit value : 0,0015 mg/l
Limit value type : PNEC (Aquatic, marine water) (POLYISOCYANATE, AROMATIC - PREPOLYMER ; CAS No. : 37273-56-6)
Limit value : 0,00015 mg/l
Limit value type : PNEC (Sewage treatment plant) (POLYISOCYANATE, AROMATIC - PREPOLYMER ; CAS No. : 37273-56-6)
Limit value : 100 mg/l

8.2 Exposure controls

Appropriate engineering controls

Observe data available of section 7. Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protection equipment

Eye/face protection

Use tightly fitting safety glasses.

Skin protection

Hand protection

At use as agreed a protective gloves from nitrile rubber, tested according to EN 374, with a material thickness 0,38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > = 8 h.

By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should be replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

Body protection

Using protective clothing.

Respiratory protection

Breathing protection equipment is not required in good ventilated places. Use suitable respiratory protective device in case of insufficient ventilation. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Filter A/P2 (at aerosol formation).

General information

Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Ensure a good ventilation in room and working area. Do not breathe vapour.

Environmental exposure controls

The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

SECTION 9: Physical and chemical properties

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Revision date : 28.09.2021
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Version (Revision) : 2.0.0 (1.0.0)

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : conformable to product designation.

Odour

Smell of organic solvents.

Safety characteristics

Melting point/freezing point :	(1013 hPa)	not determined
Initial boiling point and boiling range :	(1013 hPa)	not determined
Flash point :		190 °C
Auto-ignition temperature :		No data available
Lower explosion limit :		not determined
Upper explosion limit :		not determined
Vapour pressure:	(20 °C)	not determined
Density :	(20 °C)	approx. 1,25 g/cm ³
Water solubility :	(20 °C)	Not or littly mixable.
Viscosity :	(20 °C)	11000 mPa*s
VOC-value :	max.	62,5 g/l

9.2 Other information

The mentioned VOC value refers to the mixture of the product, incl. harder, ready for use. Other physical and chemical data have not been determined.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

No dangerous reactions are known if stored and handled the product correctly.

10.4 Conditions to avoid

Avoid moisture. Keep away from frost, heat and direct sunlight.

10.5 Incompatible materials

No dangerous reaction known. The preparation reacts slowly with water and develops carbon dioxide. The carbon dioxide formation in closed containers lets excess pressure arise and it overcomes the danger of bursting.

10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly. Formation of toxic gases is possible during heating or in case of fire: Carbon monoxide (CO.), nitrogen oxide (NOx), vapour of isocyanate and traces of hydrogen cyanide (HCN).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity:

- Acute oral toxicity: No data available;
- Acute dermal toxicity: No data available;
- Acute inhalation toxicity: No data available.

Acute oral toxicity

Parameter : LD50 (4-METHYL-M-PHENYLENE DIISOCYANATE ; CAS No. : 584-84-9)

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Trade name : Floortec 2K-Sealcon 827 (Component A)
Floortec 2K-Sealcon 827 (Komponente A)
Revision date : 28.09.2021
Print date : 28.09.2021

Version (Revision) : 2.0.0 (1.0.0)

Exposure route : Oral
Species : Rat
Effective dose : 6170 mg/kg

Acute inhalation toxicity

Parameter : LC50 (4-METHYL-M-PHENYLENE DIISOCYANATE ; CAS No. : 584-84-9)
Exposure route : Inhalation
Species : Rat
Effective dose : 14 ppm
Parameter : LC50 (4-METHYL-M-PHENYLENE DIISOCYANATE ; CAS No. : 584-84-9)
Exposure route : Inhalation
Species : Rabbit
Effective dose : 8 ppm

Corrosion

Irritation:
- Skin contact: Skin irritation.
- Eye contact: Causes serious eye irritation.

Respiratory or skin sensitisation

The product is labeled as skin and respiratory sensitizing.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as human germ cell mutagenic, carcinogenic or human reproductive toxic (CMR effects).

STOT-single exposure

No risk expected.

STOT-repeated exposure

No risk expected.

Aspiration hazard

No risk expected.

11.4 Other adverse effects

Other observations

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

11.5 Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regulation), listed in sections 2 and 3.

At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and the information submitted to us.

SECTION 12: Ecological information

12.1 Toxicity

Acute or chronic damages to water organisms by the product in the aquatic environment are not expecting.

12.2 Persistence and degradability

These are not data available about the potential of the product concerning his persistency and degradability.

12.3 Bioaccumulative potential

These are not data available about the bio accumulation potential of the product.
No information about the individual components is available either.

12.4 Mobility in soil

These are not datas available about the potential of the product concerning his mobility in the ground.
A penetrating into soil, waters and sewage system should be prevented.

12.5 Results of PBT and vPvB assessment

This product does not contain any relevant substances which were classified as a PBT or vPvB-substance.

12.6 Other adverse effects

No information available.

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Trade name : Floortec 2K-Sealcon 827 (Component A)
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12.7 Additional ecotoxicological information

Avoid exposing into ground, waterways and drainage.

The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

Disposal-definition No. (AVV-Code): 08 04 09*.

Waste code packaging

Disposal-definition No. (AVV-Code):

15 01 10 * packings which contain dangerous substances or are polluted by dangerous substances.

Waste treatment options

Appropriate disposal / Product

Dispose of contents/container to approved disposal company or local collection according to the local regulations. Do not dispose together with household garbage. Do not empty into waters or drains.

Appropriate disposal / Package

Only empty packaging can be transferred to recycling. Uncleaned packaging must be disposed of in the same manner as the medium.

SECTION 14: Transport information

14.1 UN number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant because the product in type of delivery does not transport in bulks according to the International Maritime Organization (IMO) instruments.

SECTION 15: Regulatory information

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

EU legislation

Other regulations (EU)

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

The product is not subject to the EU guideline 2004/42/EC about the limitation of the issues of brief organic connections due to the use of organic solvents in certain colours and varnishes.

This product contains max. 62,5 g/l VOC (preparation ready for use).

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Trade name : Floortec 2K-Sealcon 827 (Component A)
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National regulations

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : > 0,2 %

Water hazard class (WGK)

Class : 1 (Slightly hazardous to water) Classification according to AwSV

Additional information

The product is classified as a solid substance according to the criteria of the Penetrometer test (ADR, part 2, section 2.3.4) and also fulfils the criteria for solid substances according to the TRwS 779 number 2.1.1.

15.2 Chemical safety assessment

A chemical safety assessments was not carried out.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route)
AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany) AOX: Adsorbable Organic halogen compounds
ATEmix: Calculated acute toxicity estimate of mixture
BCF: Bio-Concentration Factor
CAS: Chemical Abstract Service
CLP: Classification, Labelling and Packaging
CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction
CSR: Chemical Safety Report
DNEL: Derived No Effect Level
EC: European Commission
EC50: Effective Concentration 50%
ECHA: European Chemical Agency
EEC: European Economic Community
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
EWC: European Waste Catalogue
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IC50: Inhibition Concentration 50%
IMDG Code: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
LC50: Lethal concentration 50%
LD50: Lethal Dose 50%
LOAEL: Lowest Observed Adverse Effect Level
LOEL: Lowest observable effect level
MAK: Treshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG)
MARPOL: Convention for the Prevention of Marine Pollution from Ships
MVZ: molar ratio
n.a.: Not applicable
n.d.: Not determined
n.r.: Not relevant
NLP: No Longer Polymers
NOAEC: No Observed Adverse Effect Concentration
NOAEL: No Observed Adverse Effect Level
NOEC: No Observed Effect Concentration
NOEL: No Observed Effect Level

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OEL: Occupational Exposure Limit
PBT: Persistent, bioaccumulative, toxic
PNEC: Predicted No Effect Concentration
RCP: Reciprocal calculation procedure
REACH: Registration, Evaluation and Authorization of Chemical
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)
STEL: Short-term Exposure Limit
SVHC: Substance of Very High Concern
TLV - TWA: Threshold Limit Value - Time Weighted Average
VOC: Volatile Organic Compounds
vPvB: Very persistent, very bioaccumulative.

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation).

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

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H351i	Suspected of causing cancer if inhaled.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

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 storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Floortec 2K-Sealcon 827 (Component B)
Floortec 2K-Sealcon 827 (Komponente B)
Revision date : 29.09.2021
Print date : 29.09.2021

Version (Revision) : 2.0.0 (1.0.0)

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

1.1 Product identifier

Floortec 2K-Sealcon 827 (Component B)
Floortec 2K-Sealcon 827 (Komponente B)

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

Products Category [PC]

PC1 - Adhesives, sealants

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Brillux GmbH & Co KG
www.brillux.de

Street : Weseler Straße 401

Postal code/city : D - 48163 Münster

Telephone : +49 (0)251-7188-0

Telefax : +49 (0)251-7188-280

Information contact :

Electronic mail address of the well-informed person for safety data sheets:sdb@brillux.de

1.4 Emergency telephone number

Outside the business hours (9 a.m. to 5 p.m.):

(Giftinformationszentrum-Nord, Göttingen, consultation in german or english language)

Telephone: +49 (0)551-19240.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.

Aquatic Acute 1 ; H400 - Hazardous to the aquatic environment : Acute 1 ; Very toxic to aquatic life.

Aquatic Chronic 1 ; H410 - Hazardous to the aquatic environment : Chronic 1 ; Very toxic to aquatic life with long lasting effects.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

2.2 Label elements

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

Hazard pictograms



Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

MIXTURE OF 6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE AND 2-METHYL-4,6-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE ; CAS No. : 106264-79-3

PHENOL, METHYLSTYRENATED ; CAS No. : 68512-30-1

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



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DIETHYLMETHYLBENZENEDIAMINE ; CAS No. : 68479-98-1

Hazard statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P501 Dispose of contents/container to approved disposal company or local collection.
P102 Keep out of reach of children.
P261 Avoid breathing vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P301+P312 IF SWALLOWED: Call a POISON CENTER or a doctor if you feel unwell.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P391 Collect spillage.

2.3 Other hazards

Adverse environmental effects

The product does not contain any substances, which fulfil the criteria for PBT or vPvB in accordance with the Annex XIII of the Regulation (EC) No 1907/2006 (REACH-Regulation).

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description

Mixture based on components, which are called following, and other components.

Hazardous ingredients

MIXTURE OF 6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE AND 2-METHYL-4,6-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE ; EC No. : 403-240-8; CAS No. : 106264-79-3

Weight fraction : $\geq 50 - < 100$ %
Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

PHENOL, METHYLSTYRENATED ; CAS No. : 68512-30-1

Weight fraction : $\geq 10 - < 25$ %
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Chronic 3 ; H412

DIETHYLMETHYLBENZENEDIAMINE ; EC No. : 270-877-4; CAS No. : 68479-98-1

Weight fraction : $\geq 2,5 - < 10$ %
Classification 1272/2008 [CLP] : STOT RE 2 ; H373 Acute Tox. 4 ; H302 Acute Tox. 4 ; H312 Eye Irrit. 2 ; H319 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Additional information

Full text of H- and EUH-phrases: 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 attention. Immediately remove all contaminated clothing. In case of unconsciousness: lay on side - call a doctor. Never give anything by mouth to an unconscious person. If medical advice is needed, have product container or label at hand.

Following inhalation

When symptoms persists, take the casualty into the fresh air and keep warm. Irregular breathing/no breathing:

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artificial respiration. Call a doctor and tell him the exactly substance.

In case of skin contact

Take off immediately all contaminated clothes. Wash away with soap and water and rinse. Do NOT use solvents or thinners. If skin irritation continues, consult a doctor.

After eye contact

Remove contact lenses, keep eyelids open. Rinse open eye immediately with plenty of running water. Seek medical advice if complaint continues.

After ingestion

Drink water in small draught. Keep at rest. Do not induce vomiting. When swallowed immediately consult and show packing or label to physician.

4.2 Most important symptoms and effects, both acute and delayed

Allergic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

In case of fire: Use alcohol resistant foam, CO₂, powders or water spray for extinction.

Unsuitable extinguishing media

In case of fire: Do not use waterjet for extinction.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

5.3 Advice for firefighters

Special protective equipment for firefighters

At a fire caused by the product a breathing apparatus with an independent source of air is to have ready and to use if necessary for the firefighting. Personnel should wear protective clothings.

5.4 Additional information

Cool endangered containers with water in case of fire. Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep no protective persons away, personal should wear protective clothings. Avoid contact with eyes and skin.

6.2 Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations. Holding polluted washing water back and disposing of duly.

6.3 Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomite, acid-binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

You find information about the safety equipment of persons in the section 8, information about the refuse disposal in section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Ensure a good ventilation in room and working area. Only use the material in places where open light, fire and other flammable sources can be kept away. For personal protection see Section 8. Avoid contact with skin and eyes. Read label before use.

Measures to prevent fire

No special precautionary measure necessary. Keep away from ignition sources - No smoking. Cool endangered containers with water.

Measures to prevent aerosol and dust generation

Prevent formation of aerosols.

Advices on general occupational hygiene

While working do not eat, drink or smoke. Immediately remove all contaminated clothing. Wash hands and face before breaks and after work and take a shower if necessary.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly in a dry, cool and good ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Do not store the product in lounge room. Keep only in the original container. Keep out of the reach of children.

Hints on joint storage

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Store away from foodstuffs.

Storage class (TRGS 510) : 10

Further information on storage conditions

Keep container tightly sealed. Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Store at 5°-35°C. Containers should be kept dry and sealed.

7.3 Specific end use(s)

For using the product observe the information in the Technical data sheet of the product.

Industrial sector specific solutions

GISCODE : Product code in accordance to GISBAU (hazardous materials information system of the German professional associations of the building and construction industry): PU60.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL-/PNEC-values

DNEL/DMEL

Limit value type :	DNEL Consumer (systemic) (MIXTURE OF 6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE AND 2-METHYL-4,6-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE ; CAS No. : 106264-79-3)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	> 0,24 mg/kg
Safety factor :	1 D
Limit value type :	DNEL Consumer (systemic) (MIXTURE OF 6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE AND 2-METHYL-4,6-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE ; CAS No. : 106264-79-3)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	> 0,24 mg/kg
Safety factor :	1 D
Limit value type :	DNEL Consumer (systemic) (MIXTURE OF 6-METHYL-2,4-

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BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE AND 2-METHYL-4,6-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE ; CAS No. : 106264-79-3)

Exposure route : Inhalation
 Exposure frequency : Long-term
 Limit value : > 0,94 mg/m³
 Limit value type : DNEL worker (systemic) (MIXTURE OF 6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE AND 2-METHYL-4,6-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE ; CAS No. : 106264-79-3)

Exposure route : Dermal
 Exposure frequency : Long-term
 Limit value : > 0,39 mg/kg
 Safety factor : 1 D
 Limit value type : DNEL worker (systemic) (MIXTURE OF 6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE AND 2-METHYL-4,6-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE ; CAS No. : 106264-79-3)

Exposure route : Inhalation
 Exposure frequency : Short-term
 Limit value : 11,8 mg/m³
 Limit value type : DNEL worker (systemic) (MIXTURE OF 6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE AND 2-METHYL-4,6-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE ; CAS No. : 106264-79-3)

Exposure route : Inhalation
 Exposure frequency : Long-term
 Limit value : 3,4 mg/m³

PNEC

Limit value type : PNEC (Aquatic, freshwater) (PHENOL, METHYLSTYRENATED ; CAS No. : 68512-30-1)
 Exposure route : Water (Including sewage plant)
 Exposure time : Short-term
 Limit value : 14 µg/l
 Limit value type : PNEC Intermittierende Einleitung (PHENOL, METHYLSTYRENATED ; CAS No. : 68512-30-1)

Exposure route : Water (Including sewage plant)
 Exposure time : Long-term
 Limit value : 140 µg/l
 Limit value type : PNEC (Aquatic, marine water) (PHENOL, METHYLSTYRENATED ; CAS No. : 68512-30-1)

Exposure route : Water (Including sewage plant)
 Exposure time : Short-term
 Limit value : 1,4 µg/l
 Limit value type : PNEC (Sediment, freshwater) (PHENOL, METHYLSTYRENATED ; CAS No. : 68512-30-1)

Exposure route : Soil
 Exposure time : Short-term
 Limit value : 1064 mg/kg dw
 Limit value type : PNEC (Sediment, marine water) (PHENOL, METHYLSTYRENATED ; CAS No. : 68512-30-1)

Exposure route : Soil
 Exposure time : Short-term
 Limit value : 106,4 mg/kg dw
 Limit value type : PNEC (Soil) (PHENOL, METHYLSTYRENATED ; CAS No. : 68512-30-1)

Exposure route : Soil
 Exposure time : Short-term
 Limit value : 212,2 mg/kg soil dw
 Limit value type : PNEC (Secondary poisoning) (PHENOL, METHYLSTYRENATED ; CAS No. : 68512-30-1)

Exposure route : Soil
 Exposure time : Short-term
 Limit value : 8,89 mg/kg food
 Limit value type : PNEC (Sewage treatment plant) (PHENOL, METHYLSTYRENATED ; CAS No. : 68512-30-1)

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Exposure route : 1)
Water (Including sewage plant)
Exposure time : Short-term
Limit value : 2,4 mg/l

8.2 Exposure controls

Appropriate engineering controls

Observe data available of section 7. Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protection equipment

Eye/face protection

Use tightly fitting safety glasses.

Skin protection

Hand protection

At use as agreed a protective gloves from nitrile rubber, tested according to EN 374, with a material thickness 0,38 mm has to be used. Notes of the manufacturer have to be taken into account. Penetration time of the glove material: > = 8 h.

By longer or repeated contact the penetration times can be considerably shorter. The protective gloves should be replaced after the first wear out or a damage of the gloves. Gloves of cotton should be used under the gloves of polychloropren or nitrile rubber. After washing hands replace lost skin fat by fat containing skin creams.

Body protection

Using protective clothing.

Respiratory protection

Breathing protection equipment is not required in good ventilated places. Use suitable respiratory protective device in case of insufficient ventilation. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Filter A/P2 (at aerosol formation).

General information

Avoid contact with eyes and skin. Immediately remove all contaminated clothing. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Ensure a good ventilation in room and working area. Do not breathe vapour.

Environmental exposure controls

The product should not reach waters and the ground. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : conformable to product designation.

Odour

Smell of organic solvents.

Safety characteristics

Melting point/freezing point :	(1013 hPa)	not determined
Initial boiling point and boiling range :	(1013 hPa)	not determined
Decomposition temperature :	(1013 hPa)	353 °C
Flash point :		162 °C
Lower explosion limit :		not determined
Upper explosion limit :		not determined
Vapour pressure:	(20 °C)	not determined
Density :	(20 °C) approx.	1,12 g/cm ³

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Water solubility : (20 °C) practically insoluble
Viscosity : (20 °C) not determined
VOC-value : max. 62,5 g/l

9.2 Other information

The mentioned VOC value refers to the mixture of the product, incl. harder, ready for use. Other physical and chemical data have not been determined.

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangers connected by a possible reactivity of the product are known to proper handling and storage.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

No dangerous reactions are known if stored and handled the product correctly.
Particularly larger quantities of the 2C-Mixture material could get hot by the progressive polyaddition, if the mixture would not using. Carbon monoxide, carbon dioxide and nitric oxides could arise.

10.4 Conditions to avoid

Keep away from frost, heat and direct sunlight.

10.5 Incompatible materials

No dangerous reaction known. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.6 Hazardous decomposition products

No dangerous decomposition product are known if stored and handled correctly. When exposed to high temperatures or in case of fire hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen, may produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute toxicity:

- Acute oral toxicity: No data available;
- Acute dermal toxicity: No data available;
- Acute inhalation toxicity: No data available.

Acute oral toxicity

Parameter : LD50 (DIETHYLMETHYLBENZENEDIAMINE ; CAS No. : 68479-98-1)
Exposure route : Oral
Species : Rat
Effective dose : 1515 mg/kg

Acute dermal toxicity

Parameter : LD50 (MIXTURE OF 6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE AND 2-METHYL-4,6-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE ; CAS No. : 106264-79-3)
Exposure route : Dermal
Species : Rabbit
Effective dose : > 2000 mg/kg

Corrosion

Irritation:

- Skin contact: Skin irritation.
- Eye contact: Causes serious eye irritation.

Respiratory or skin sensitisation

The product is labeled as skin sensitizing.

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CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

The product is not classified as human germ cell mutagenic, carcinogenic or human reproductive toxic (CMR effects).

STOT-single exposure

No risk expected.

STOT-repeated exposure

No risk expected.

Aspiration hazard

No risk expected.

11.4 Other adverse effects

Other observations

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

11.5 Additional information

The product is classified in toxicological terms on the basis of the results of the calculation procedure outlined within the Regulation (EC) No 1272/2008 (CLP-Regulation), listed in sections 2 and 3.

At proper dealing and use as agreed the product does not cause any effects bad for health after our experiences and the information submitted to us.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity

Remark: Toxic for fishes.

12.2 Persistence and degradability

These are not data available about the potential of the product concerning his persistency and degradability.

12.3 Bioaccumulative potential

These are not data available about the bio accumulation potential of the product.

No information about the individual components is available either.

12.4 Mobility in soil

These are not datas available about the potential of the product concerning his mobility in the ground.

A penetrating into soil, waters and sewage system should be prevented.

12.5 Results of PBT and vPvB assessment

This product does not contain any relevant substances which were classified as a PBT or vPvB-substance.

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

Avoid exposing into ground, waterways and drainage.

The classification of the product is based on summation of classified components according to the Regulation (EC) No 1272/2008 (CLP-Regulation). See details in sections 2 and 3.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

Disposal-definition No. (AVV-Code): 08 04 09*.

Waste code packaging

Disposal-definition No. (AVV-Code):

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15 01 10 * packings which contain dangerous substances or are polluted by dangerous substances.

Waste treatment options

Appropriate disposal / Product

Dispose of contents/container to approved disposal company or local collection according to the local regulations.
Do not dispose together with household garbage. Do not empty into waters or drains.

Appropriate disposal / Package

Only empty packaging can be transferred to recycling. Uncleaned packaging must be disposed of in the same manner as the medium.

SECTION 14: Transport information

14.1 UN number

UN 3082

14.2 UN proper shipping name

Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MIXTURE OF 6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE AND 2-METHYL-4,6-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE)

Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MIXTURE OF 6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE AND 2-METHYL-4,6-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE)

Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MIXTURE OF 6-METHYL-2,4-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE AND 2-METHYL-4,6-BIS(METHYLTHIO)PHENYLENE-1,3-DIAMINE)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 9
Classification code : M6
Hazard identification number (Kemler No.) : 90
Tunnel restriction code : E
Special provisions : LQ 5 I · E 1 · ADR : - (SP 375 <= 5 l/kg)
Hazard label(s) : 9 / N

Sea transport (IMDG)

Class(es) : 9
EmS-No. : F-A / S-F
Special provisions : LQ 5 I · E 1
Hazard label(s) : 9 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 9
Hazard label(s) : 9 / N

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : Yes
Sea transport (IMDG) : Yes (P)
Air transport (ICAO-TI / IATA-DGR) : Yes

14.6 Special precautions for user

None

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant because the product in type of delivery does not transport in bulks according to the International Maritime Organization (IMO) instruments.

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SECTION 15: Regulatory information

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

EU legislation

Other regulations (EU)

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds

The product is not subject to the EU guideline 2004/42/EC about the limitation of the issues of brief organic connections due to the use of organic solvents in certain colours and varnishes.

This product contains max. 62,5 g/l VOC (preparation ready for use).

National regulations

Water hazard class (WGK)

Class : 3 (Strongly hazardous to water) Classification according to AwSV

Additional information

The product is classified as a solid substance according to the criteria of the Penetrometer test (ADR, part 2, section 2.3.4) and also fulfils the criteria for solid substances according to the TRwS 779 number 2.1.1.

15.2 Chemical safety assessment

A chemical safety assessments was not carried out.

SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route)

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany) AOX: Adsorbable Organic halogen compounds

ATEmix: Calculated acute toxicity estimate of mixture

BCF: Bio-Concentration Factor

CAS: Chemical Abstract Service

CLP: Classification, Labelling and Packaging

CMR: Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction

CSR: Chemical Safety Report

DNEL: Derived No Effect Level

EC: European Commission

EC50: Effective Concentration 50%

ECHA: European Chemical Agency

EEC: European Economic Community

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

EWG: European Waste Catalogue

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IC50: Inhibition Concentration 50%

IMDG Code: International Maritime Dangerous Goods Code

IMO: International Maritime Organization

LC50: Lethal concentration 50%

LD50: Lethal Dose 50%

LOAEL: Lowest Observed Adverse Effect Level

LOEL: Lowest observable effect level

MAK: Treshold limit values Germany (Maximale Arbeitsplatzkonzentration - DFG)

MARPOL: Convention for the Prevention of Marine Pollution from Ships

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MVZ: molar ratio
n.a.: Not applicable
n.d.: Not determined
n.r.: Not relevant
NLP: No Longer Polymers
NOAEC: No Observed Adverse Effect Concentration
NOAEL: No Observed Adverse Effect Level
NOEC: No Observed Effect Concentration
NOEL: No Observed Effect Level
OEL: Occupational Exposure Limit
PBT: Persistent, bioaccumulative, toxic
PNEC: Predicted No Effect Concentration
RCP: Reciprocal calculation procedure
REACH: Registration, Evaluation and Authorization of Chemical
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer)
STEL: Short-term Exposure Limit
SVHC: Substance of Very High Concern
TLV - TWA: Threshold Limit Value - Time Weighted Average
VOC: Volatile Organic Compounds
vPvB: Very persistent, very bioaccumulative.

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The evaluation of hazard information of the product was carried out in accordance to Annex I of the REGULATION (EC) No 1272/2008 (CLP Regulation).

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

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6 Training advice

None

16.7 Additional information

None

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 storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.