

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by
UK REACH Regulations SI 2019/758



Standard Grade Black

| | | | |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 01.02.2023 |
| 6.0 | 08.06.2023 | 9736858-00005 | Date of first issue: 23.04.2014 |

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

1.1 Product identifier

| | | |
|--------------|---|----------------------|
| Trade name | : | Standard Grade Black |
| Product code | : | 0892845351 |

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

| | | |
|------------------------------------|---|-------------------------------------|
| Use of the Sub- stance/Mixture | : | Sealant Professional use product |
| Recommended restrictions on use | : | Not applicable |

1.3 Details of the supplier of the safety data sheet

| | | |
|---|---|--|
| Company | : | Würth UK Ltd 1 Centurion Way Erith, Kent |
| Telephone | : | +44 (0)3300 555 444 |
| Telefax | : | +44 (0)3300 555 666 |
| E-mail address of person responsible for the SDS | : | prodsafe@wuerth.com |

1.4 Emergency telephone number

+44 (0)870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

|| No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

Additional Labelling

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EUH210 Safety data sheet available on request.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|--|---|--|--------------------------|
| Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0,03%aromatics | 64742-46-7 265-148-2 649-221-00-X 01-2119552497-29 | Asp. Tox. 1; H304 | >= 10 - < 20 |
| Triacetoxysilane | 17689-77-9 241-677-4 01-2119881778-15 | Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 | >= 1 - < 3 |
| Oligomeric ethyl and methyl acetoxysilanes | Not Assigned | Skin Corr. 1B; H314 Eye Dam. 1; H318 | >= 1 - < 3 |
| Substances with a workplace exposure limit : | | | |
| Silicon, amorphous | 112945-52-5 231-545-4 | | >= 1 - < 10 |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Protection of first-aiders : No special precautions are necessary for first aid responders.

If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.
Get medical attention if symptoms occur.

In case of eye contact : Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.

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4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides
Silicon oxides

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Retain and dispose of contaminated wash water.

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If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Keep away from water.
Protect from moisture.
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:
Strong oxidizing agents

7.3 Specific end use(s)

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Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|--------------------|-------------|-------------------------------|--------------------------------|---------|
| Silicon, amorphous | 112945-52-5 | TWA (inhalable dust) | 6 mg/m ³ (Silica) | GB EH40 |
| | | TWA (Respirable dust) | 2.4 mg/m ³ (Silica) | GB EH40 |

Occupational exposure limits of decomposition products

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---------------------------------|---------|-------------------------------|--------------------------------|-------------|
| Acetic acid | 64-19-7 | STEL | 20 ppm 50 mg/m ³ | GB EH40 |
| | | TWA | 10 ppm 25 mg/m ³ | GB EH40 |
| | | TWA | 10 ppm 25 mg/m ³ | 2017/164/EU |
| Further information: Indicative | | | | |
| | | STEL | 20 ppm 50 mg/m ³ | 2017/164/EU |
| Further information: Indicative | | | | |

Derived No Effect Level (DNEL):

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|-----------------------|-----------|-----------------|--------------------------|------------------------|
| Triacetoxyethylsilane | Workers | Inhalation | Long-term local effects | 32.5 mg/m ³ |
| | Workers | Inhalation | Acute local effects | 32.5 mg/m ³ |
| | Consumers | Inhalation | Long-term local effects | 6.5 mg/m ³ |

Predicted No Effect Concentration (PNEC):

| Substance name | Environmental Compartment | Value |
|-----------------------|---------------------------|-------------|
| Triacetoxyethylsilane | Fresh water | 0.2 mg/l |
| | Marine water | 0.02 mg/l |
| | Intermittent use/release | 1.7 mg/l |
| | Sewage treatment plant | 1 mg/l |
| | Fresh water sediment | 0.74 mg/kg |
| | Marine sediment | 0.074 mg/kg |
| | Soil | 0.031 mg/kg |

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8.2 Exposure controls

Engineering measures

Processing may form hazardous compounds (see section 10).
Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.

Personal protective equipment

- | | | |
|--------------------------|---|---|
| Eye/face protection | : | Please follow all applicable local/national requirements when selecting protective measures for a specific workplace. |
| | | Wear the following personal protective equipment: Safety glasses Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded. Equipment should conform to BS EN 166 |
| Hand protection | | |
| Material | : | butyl-rubber |
| Break through time | : | > 480 min |
| Glove thickness | : | > 0.3 mm |
| Material | : | Nitrile rubber |
| Break through time | : | 60 - 120 min |
| Glove thickness | : | > 0.1 mm |
| Remarks | : | Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. |
| Skin and body protection | : | Skin should be washed after contact. |
| Respiratory protection | : | If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Equipment should conform to BS EN 14387 |
| Filter type | : | Combined particulates and organic vapour type (A-P) |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- | | | |
|------------|---|-------------|
| Appearance | : | paste |
| Colour | : | transparent |
| Odour | : | stinging |

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| | | |
|--|---|--|
| Odour Threshold | : | No data available |
| pH | : | No data available |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | No data available |
| Flash point | : | Not applicable |
| Evaporation rate | : | Not applicable |
| Flammability (solid, gas) | : | Not classified as a flammability hazard |
| Upper explosion limit / Upper flammability limit | : | Not applicable |
| Lower explosion limit / Lower flammability limit | : | Not applicable |
| Vapour pressure | : | Not applicable |
| Relative vapour density | : | Not applicable |
| Density | : | 1.01 g/cm ³ (23 °C) |
| Solubility(ies) Water solubility | : | insoluble, hydrolyses |
| Partition coefficient: n-octanol/water | : | Not applicable |
| Auto-ignition temperature | : | ca. 400 °C Method: DIN 51794 |
| Decomposition temperature | : | ca. 150 °C |
| Viscosity Viscosity, dynamic | : | ca. 800,000 mPa.s |
| Viscosity, kinematic | : | Not applicable |
| Explosive properties | : | Not explosive |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |

9.2 Other information

| | | |
|---------------|---|-------------------|
| Particle size | : | No data available |
|---------------|---|-------------------|

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SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.
Hazardous decomposition products will be formed upon contact with water or humid air.

10.4 Conditions to avoid

Conditions to avoid : Exposure to moisture

10.5 Incompatible materials

Materials to avoid : Oxidizing agents
Water

10.6 Hazardous decomposition products

Contact with water or humid air : Acetic acid

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Components:

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0,03%aromatics:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.266 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat): > 3,160 mg/kg

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Triacetoxyethylsilane:

| | | |
|---------------------------|---|--|
| Acute oral toxicity | : | LD50 (Rat): 1,460 mg/kg Method: OECD Test Guideline 401 |
| Acute inhalation toxicity | : | Assessment: Corrosive to the respiratory tract. |

Silicon, amorphous:

| | | |
|---------------------------|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on data from similar materials |
| Acute inhalation toxicity | : | LC50 (Rat): > 2.08 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on data from similar materials |
| Acute dermal toxicity | : | LD50 (Rabbit): > 5,000 mg/kg Remarks: Based on data from similar materials |

Skin corrosion/irritation

Not classified based on available information.

Product:

| | | |
|---------|---|--------------------------------------|
| Species | : | Rabbit |
| Method | : | OECD Test Guideline 404 |
| Result | : | No skin irritation |
| Remarks | : | Based on data from similar materials |

Components:

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0,03%aromatics:

| | | |
|---------|---|-------------------------|
| Species | : | Rabbit |
| Method | : | OECD Test Guideline 404 |
| Result | : | No skin irritation |

Triacetoxyethylsilane:

| | | |
|---------|---|---|
| Species | : | Rabbit |
| Result | : | Corrosive after 3 minutes to 1 hour of exposure |

Oligomeric ethyl and methyl acetoxysilanes:

| | | |
|--------|---|---|
| Result | : | Corrosive after 3 minutes to 1 hour of exposure |
|--------|---|---|

Silicon, amorphous:

| | | |
|---------|---|-------------------------|
| Species | : | Rabbit |
| Method | : | OECD Test Guideline 404 |

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| | | |
|---------|---|--------------------------------------|
| Result | : | No skin irritation |
| Remarks | : | Based on data from similar materials |

Serious eye damage/eye irritation

Not classified based on available information.

Product:

| | | |
|---------|---|--------------------------------------|
| Species | : | Rabbit |
| Method | : | OECD Test Guideline 405 |
| Result | : | No eye irritation |
| Remarks | : | Based on data from similar materials |

Components:

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0,03%aromatics:

| | | |
|---------|---|-------------------------|
| Species | : | Rabbit |
| Method | : | OECD Test Guideline 405 |
| Result | : | No eye irritation |

Triacetoxylethylsilane:

| | | |
|--------|---|---------------------------------|
| Result | : | Irreversible effects on the eye |
|--------|---|---------------------------------|

Oligomeric ethyl and methyl acetoxysilanes:

| | | |
|--------|---|---------------------------------|
| Result | : | Irreversible effects on the eye |
|--------|---|---------------------------------|

Silicon, amorphous:

| | | |
|---------|---|--------------------------------------|
| Species | : | Rabbit |
| Method | : | OECD Test Guideline 405 |
| Result | : | No eye irritation |
| Remarks | : | Based on data from similar materials |

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0,03%aromatics:

| | | |
|-----------------|---|--------------------------------------|
| Test Type | : | Maximisation Test |
| Exposure routes | : | Skin contact |
| Species | : | Guinea pig |
| Result | : | negative |
| Remarks | : | Based on data from similar materials |

Triacetoxylethylsilane:

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| | |
|-----------------|--------------------------------------|
| Test Type | : Buehler Test |
| Exposure routes | : Skin contact |
| Species | : Guinea pig |
| Method | : OECD Test Guideline 406 |
| Result | : negative |
| Assessment | : Does not cause skin sensitisation. |

Germ cell mutagenicity

Not classified based on available information.

Components:

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0,03%aromatics:

| | |
|-----------------------|--|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES) |
| | Result: negative |

Triacetoxylethylsilane:

| | |
|-----------------------|--|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES) |
| | Result: negative |

Silicon, amorphous:

| | |
|-----------------------|--|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES) |
| | Method: OECD Test Guideline 471 |
| | Result: negative |
| | Remarks: Based on data from similar materials |

| | |
|----------------------|--|
| Genotoxicity in vivo | : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) |
| | Species: Rat |
| | Application Route: Ingestion |
| | Result: negative |
| | Remarks: Based on data from similar materials |

Carcinogenicity

Not classified based on available information.

Components:

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0,03%aromatics:

| | |
|------------------------------|--|
| Carcinogenicity - Assessment | : Classified based on the conditions cited in Nota N (Regulation (EC) 1272/2008, Annex VI, Part 3, Note N) |
|------------------------------|--|

Silicon, amorphous:

| | |
|-------------------|--|
| Species | : Rat |
| Application Route | : Ingestion |
| Exposure time | : 103 weeks |
| Result | : negative |
| Remarks | : Based on data from similar materials |

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Reproductive toxicity

Not classified based on available information.

Components:

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0,03%aromatics:

| | | |
|-------------------------------|---|--------------------------------------|
| Effects on foetal development | : | Test Type: Embryo-foetal development |
| | | Species: Rat |
| | | Application Route: Ingestion |
| | | Method: OECD Test Guideline 414 |
| | | Result: negative |

Silicon, amorphous:

| | | |
|-------------------------------|---|---|
| Effects on foetal development | : | Test Type: Embryo-foetal development |
| | | Species: Rat |
| | | Application Route: Ingestion |
| | | Result: negative |
| | | Remarks: Based on data from similar materials |

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Silicon, amorphous:

| | | |
|-------------------|---|--------------------------------------|
| Species | : | Rat |
| NOAEL | : | 1.3 mg/l |
| Application Route | : | inhalation (dust/mist/fume) |
| Exposure time | : | 13 Weeks |
| Remarks | : | Based on data from similar materials |

Aspiration toxicity

Not classified based on available information.

Components:

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0,03%aromatics:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

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SECTION 12: Ecological information

12.1 Toxicity

Components:

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0,03%aromatics:

- | | | |
|---|---|--|
| Toxicity to fish | : | LL50 (Scophthalmus maximus (turbot)): > 1,028 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction |
| Toxicity to daphnia and other aquatic invertebrates | : | EL50 (Acartia tonsa (Calanoid copepod)): > 3,193 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: ISO 14669 and PARCOM method |
| Toxicity to algae/aquatic plants | : | EL50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: ISO 10253 |
| Toxicity to microorganisms | : | EC50 : > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 |

Triacetoxyethylsilane:

- | | | |
|---|---|--|
| Toxicity to fish | : | LC50 (Danio rerio (zebra fish)): 251 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 168.7 mg/l Exposure time: 48 h Remarks: Data from similar compositions |
| Toxicity to algae/aquatic plants | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): 24.41 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials NOEC (Pseudokirchneriella subcapitata (green algae)): 18 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials |
| Toxicity to microorganisms | : | EC50 : > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials |
| Toxicity to daphnia and other | : | NOEC: >= 10 mg/l |

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aquatic invertebrates (Chronic toxicity)

Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
Remarks: Based on data from similar materials

Silicon, amorphous:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 24 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

NOEC (Desmodesmus subspicatus (green algae)): 10,000 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

12.2 Persistence and degradability

Components:

Hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0,03%aromatics:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 74 %
Exposure time: 28 d
Method: OECD Test Guideline 306

Triacetoxymethylsilane:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 74 %
Exposure time: 21 d

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

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12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

| | |
|------------------------|--|
| Product | : Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer. |
| Contaminated packaging | : Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. |
| Waste Code | : The following Waste Codes are only suggestions: used product 08 04 10, waste adhesives and sealants other than those mentioned in 08 04 09 unused product 08 04 10, waste adhesives and sealants other than those mentioned in 08 04 09 uncleaned packagings 15 01 06, mixed packaging |

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SECTION 14: Transport information

14.1 UN number

| | | |
|------|---|-----------------------------------|
| ADN | : | Not regulated as a dangerous good |
| ADR | : | Not regulated as a dangerous good |
| RID | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | Not regulated as a dangerous good |

14.2 UN proper shipping name

| | | |
|------|---|-----------------------------------|
| ADN | : | Not regulated as a dangerous good |
| ADR | : | Not regulated as a dangerous good |
| RID | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | Not regulated as a dangerous good |

14.3 Transport hazard class(es)

| | | |
|------|---|-----------------------------------|
| ADN | : | Not regulated as a dangerous good |
| ADR | : | Not regulated as a dangerous good |
| RID | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA | : | Not regulated as a dangerous good |

14.4 Packing group

| | | |
|------------------|---|-----------------------------------|
| ADN | : | Not regulated as a dangerous good |
| ADR | : | Not regulated as a dangerous good |
| RID | : | Not regulated as a dangerous good |
| IMDG | : | Not regulated as a dangerous good |
| IATA (Cargo) | : | Not regulated as a dangerous good |
| IATA (Passenger) | : | Not regulated as a dangerous good |

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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

Remarks : Not applicable for product as supplied.

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SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

| | |
|---|---|
| UK REACH List of restrictions (Annex 17) | : Not applicable |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation | : Not applicable |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | : Not applicable |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer | : Not applicable |
| UK REACH List of substances subject to authorisation (Annex XIV) | : Not applicable |
| GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation | : Not applicable |
| Control of Major Accident Hazards Regulations 2015 (COMAH) | Not applicable |
| Volatile organic compounds | : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: < 1 %, < 10 g/l Remarks: VOC content excluding water |

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

| | |
|-------------------|--|
| Other information | : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines. |
|-------------------|--|

Full text of H-Statements

| | |
|------|---|
| H302 | : Harmful if swallowed. |
| H304 | : May be fatal if swallowed and enters airways. |
| H314 | : Causes severe skin burns and eye damage. |
| H318 | : Causes serious eye damage. |

Full text of other abbreviations

| | |
|------------|---------------------|
| Acute Tox. | : Acute toxicity |
| Asp. Tox. | : Aspiration hazard |

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| | |
|--------------------|--|
| Eye Dam. | : Serious eye damage |
| Skin Corr. | : Skin corrosion |
| 2017/164/EU | : Europe. Commission Directive 2017/164/EU establishing a fourth list of indicative occupational exposure limit values |
| GB EH40 | : UK. EH40 WEL - Workplace Exposure Limits |
| 2017/164/EU / STEL | : Short term exposure limit |
| 2017/164/EU / TWA | : Limit Value - eight hours |
| GB EH40 / TWA | : Long-term exposure limit (8-hour TWA reference period) |
| GB EH40 / STEL | : Short-term exposure limit (15-minute reference period) |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

| | |
|---|---|
| Sources of key data used to compile the Safety Data Sheet | : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/ |
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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for

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