

## Ceramic/Refractory Coatings

Version number: 2.0  
Replaces version of: 10.12.2021 (1)

Revision: 20.12.2023

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

#### 1.1 Product identifier

|                                 |                                    |
|---------------------------------|------------------------------------|
| Trade name                      | <b>Ceramic/Refractory Coatings</b> |
| Registration number (REACH)     | not relevant (mixture)             |
| Unique formula identifier (UFI) | T600-S0QS-U00W-0WWD                |
| Alternative name(s)             | ST3-M, ST5.1, ST17.2, ST25, DI7    |

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

|                          |                                             |
|--------------------------|---------------------------------------------|
| Relevant identified uses | Coating<br>Industrial use                   |
| Uses advised against     | Do not use for private purposes (household) |

#### 1.3 Details of the supplier of the safety data sheet

Cress BV  
Deltahoek 34  
4511 PA Breskens  
PO Box: 44  
4510 AA  
Breskens  
Netherlands

Telephone: +31(0)117712611  
Telefax: +31(0)202581275  
e-mail: [info@cressbv.nl](mailto:info@cressbv.nl)  
Website: [www.cressbv.nl](http://www.cressbv.nl)

e-mail (competent person)

[info@cressbv.nl](mailto:info@cressbv.nl)

#### 1.4 Emergency telephone number

|                               |                                                                                                           |
|-------------------------------|-----------------------------------------------------------------------------------------------------------|
| Emergency information service | +31(0)117712611<br>This number is only available during the following office hours: Mon-Fri 09:00 - 17:00 |
|-------------------------------|-----------------------------------------------------------------------------------------------------------|

| Poison centre |                                                                                                                                                        |                 |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Country       | Name                                                                                                                                                   | Telephone       |
| Netherlands   | Nationaal Vergiftigingen Informatie Centrum (UMC Utrecht)<br>Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen | +31 88 755 8000 |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

| Section | Hazard class                                       | Category | Hazard class and category | Hazard statement |
|---------|----------------------------------------------------|----------|---------------------------|------------------|
| 3.10    | acute toxicity (oral)                              | 4        | Acute Tox. 4              | H302             |
| 3.9     | specific target organ toxicity - repeated exposure | 1        | STOT RE 1                 | H372             |

For full text of H-phrases: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.

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### 2.2 Label elements

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

- signal word Danger

- pictograms

GHS07, GHS08



- hazard statements

H302 Harmful if swallowed.

H372 Causes damage to organs (lung) through prolonged or repeated exposure (if inhaled).

- precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P314 Get medical advice/attention if you feel unwell.

P330 Rinse mouth.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- hazardous ingredients for labelling

Contains: silica, crystalline - quartz (quartz).

### 2.3 Other hazards

There is no additional information.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0,1\%$ .

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0,1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture).

### 3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

| Name of substance                     | Identifier                                     | Wt%     | Classification acc. to GHS              | Pictograms                                                                            | Notes            |
|---------------------------------------|------------------------------------------------|---------|-----------------------------------------|---------------------------------------------------------------------------------------|------------------|
| silica, crystalline - quartz (quartz) | CAS No<br>14808-60-7<br><br>EC No<br>238-878-4 | 35 – 50 | Acute Tox. 4 / H302<br>STOT RE 1 / H372 |  | IARC: 1<br>IOELV |

#### Notes

IARC: 1: IARC group 1: carcinogenic to humans (International Agency for Research on Cancer)

IOELV: Substance with a community indicative occupational exposure limit value

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| Name of substance                     | Identifier                                     | Specific Conc. Limits | M-Factors | ATE       | Exposure route |
|---------------------------------------|------------------------------------------------|-----------------------|-----------|-----------|----------------|
| silica, crystalline - quartz (quartz) | CAS No<br>14808-60-7<br><br>EC No<br>238-878-4 | -                     | -         | 500 mg/kg | oral           |

### Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

#### Following skin contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

#### Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Induce vomiting when the affected person is not unconscious. Call a POISON CENTER/doctor.

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

Symptoms and effects are not known to date.

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

For specialist advice physicians should contact the poison centre.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray; Dry extinguishing powder; Carbon dioxide (CO<sub>2</sub>);  
Co-ordinate firefighting measures to the fire surroundings.

#### Unsuitable extinguishing media

Water jet.

### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

During fire hazardous fumes/smoke could be produced: silicon tetrafluoride.

### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

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Special protective equipment for firefighters

Self-contained breathing apparatus (EN 133). Standard protective clothing for firefighters.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Use personal protective equipment as required.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomite, diatomaceous earth, acid binder, universal binder, sawdust).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

#### 7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- flammability hazards

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

- incompatible substances or mixtures

Keep away from alkalis, oxidising substances, acids.

Control of effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight.

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### Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed.

### - packaging compatibilities

Keep only in original container.

### 7.3 Specific end use(s)

There is no additional information.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

| Occupational exposure limit values (Workplace Exposure Limits) |                              |            |            |           |                          |            |                           |          |              |
|----------------------------------------------------------------|------------------------------|------------|------------|-----------|--------------------------|------------|---------------------------|----------|--------------|
| Country                                                        | Name of agent                | CAS No     | Identifier | TWA [ppm] | TWA [mg/m <sup>3</sup> ] | STEL [ppm] | STEL [mg/m <sup>3</sup> ] | Notation | Source       |
| EU                                                             | crystalline silica           | 14808-60-7 | IOELV      |           | 0,1                      |            |                           | dust, r  | 2017/2398/EU |
| NL                                                             | silica, crystalline - quartz | 14808-60-7 | GW         |           | 0,075                    |            |                           | r, dust  | SC-SZW       |

#### Notation

dust

as dust

r

respirable fraction

STEL

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

### Relevant DNELs/DMELs/PNECs and other threshold levels

No data available.

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection



Use safety goggle with side protection (EN 166).

##### Skin protection



Protective clothing (EN 340 & EN ISO 13688).

##### Hand protection



Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Chemical protection gloves are suitable, which are tested according to EN 374. 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### - type of material

Nitrile rubber

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- material thickness

Use gloves with a minimum material thickness:  $\geq 0,38$  mm.

- breakthrough time of the glove material

Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Full face mask/half mask/quarter mask (EN 136/140). Type: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White).

### Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                          |                          |
|----------------------------------------------------------|--------------------------|
| Physical state                                           | liquid (slurry)          |
| Colour                                                   | dark grey - black        |
| Odour                                                    | mild                     |
| Melting point/freezing point                             | 0 °C                     |
| Boiling point or initial boiling point and boiling range | 95 – 105 °C              |
| Flammability                                             | non-combustible          |
| Lower and upper explosion limit                          | LEL: UEL: not determined |
| Flash point                                              | not applicable           |
| Auto-ignition temperature                                |                          |
| Decomposition temperature                                | no data available        |
| pH (value)                                               | 8,7 – 9,7                |
| Kinematic viscosity                                      | not determined           |
| Solubility                                               | not determined           |

|                                                   |                                   |
|---------------------------------------------------|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---------------------------------------------------|-----------------------------------|

|                 |                    |
|-----------------|--------------------|
| Vapour pressure | 17,5 mmHg at 20 °C |
|-----------------|--------------------|

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### Density and/or relative density

|                         |                                               |
|-------------------------|-----------------------------------------------|
| Density                 | not determined                                |
| Relative vapour density | information on this property is not available |
| Relative density        | 1,54 – 1,58 (water = 1)                       |

|                          |                       |
|--------------------------|-----------------------|
| Particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|

### 9.2 Other information

|                                                    |                                                             |
|----------------------------------------------------|-------------------------------------------------------------|
| Information with regard to physical hazard classes | hazard classes acc. to GHS (physical hazards): not relevant |
| Other safety characteristics                       | there is no additional information                          |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

Oxidisers.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

##### Acute toxicity

Harmful if swallowed.

- acute toxicity estimate (ATE)

| Exposure route | ATE         |
|----------------|-------------|
| Oral           | 1.000 mg/kg |

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| Acute toxicity estimate (ATE) of components |            |                |           |
|---------------------------------------------|------------|----------------|-----------|
| Name of substance                           | CAS No     | Exposure route | ATE       |
| silica, crystalline - quartz (quartz)       | 14808-60-7 | oral           | 500 mg/kg |

| Acute toxicity of components          |            |                |          |           |         |
|---------------------------------------|------------|----------------|----------|-----------|---------|
| Name of substance                     | CAS No     | Exposure route | Endpoint | Value     | Species |
| silica, crystalline - quartz (quartz) | 14808-60-7 | oral           | LD50     | 500 mg/kg | rat     |

### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### Summary of evaluation of the CMR properties

The product contains substances that are listed on the "SZW-lijst van kankerverwekkende, mutagene en voor de voortplanting giftige stoffen". See section 15 for more information on the ingredients.

### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

### Specific target organ toxicity - repeated exposure

Causes damage to organs (lung) through prolonged or repeated exposure (if inhaled).

| Hazard category | Target organ | Exposure route |
|-----------------|--------------|----------------|
| 1               | lung         | if inhaled     |

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## 11.2 Information on other hazards

### Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0,1\%$ .

### Other information

There is no additional information.



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### SECTION 12: Ecological information

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Data are not available.

#### 12.3 Bioaccumulative potential

Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0,1\%$ .

#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of  $\geq 0,1\%$ .

#### 12.7 Other adverse effects

Data are not available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### SECTION 14: Transport information

|      |                                                         |                                                                       |
|------|---------------------------------------------------------|-----------------------------------------------------------------------|
| 14.1 | UN number or ID number                                  | not subject to transport regulations                                  |
| 14.2 | UN proper shipping name                                 | not relevant                                                          |
| 14.3 | Transport hazard class(es)                              | none                                                                  |
| 14.4 | Packing group                                           | not assigned                                                          |
| 14.5 | Environmental hazards                                   | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 | Special precautions for user                            | There is no additional information.                                   |
| 14.7 | Maritime transport in bulk according to IMO instruments | No data available.                                                    |

#### Additional information for each of the UN Model Regulations

##### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

Not subject to ADR, RID and ADN.

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### International Maritime Dangerous Goods Code (IMDG) - additional information

Not subject to IMDG.

### International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Not subject to ICAO-IATA.

## SECTION 15: Regulatory information

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

#### Relevant provisions of the European Union (EU)

#### Restrictions according to REACH, Annex XVII

None of the ingredients are listed.

| Name                        | Name acc. to inventory                                                                           | Restriction | No |
|-----------------------------|--------------------------------------------------------------------------------------------------|-------------|----|
| Ceramic/Refractory Coatings | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | R3          | 3  |

#### Legend

R3

- Shall not be used in:
  - ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ash-trays,
  - tricks and jokes,
  - games for one or more participants, or any article intended to be used as such, even with ornamental aspects,
- Articles not complying with paragraph 1 shall not be placed on the market.
- Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
  - can be used as fuel in decorative oil lamps for supply to the general public, and
  - present an aspiration hazard and are labelled with H304.
- Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
- Without prejudice to the implementation of other Union provisions relating to the classification, labelling and packaging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:
  - lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
  - grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter fluid may lead to life threatening lung damage";
  - lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.;

### List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

### Seveso Directive

| 2012/18/EU (Seveso III) |                                       |                                                                                       |       |
|-------------------------|---------------------------------------|---------------------------------------------------------------------------------------|-------|
| No                      | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
|                         | not assigned                          |                                                                                       |       |

### Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

### Water Framework Directive (WFD)

None of the ingredients are listed.

### Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

None of the ingredients are listed.

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### Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

### National regulations (Netherlands)

#### SZW-lijst CMR effects

| List of carcinogenic, mutagenic and reproductive toxic substances (SZW-lijst) |            |                 |              |                       |
|-------------------------------------------------------------------------------|------------|-----------------|--------------|-----------------------|
| Name acc. to inventory                                                        | CAS No     | Carcinogenicity | Mutagenicity | Reproductive toxicity |
| silica, crystalline - quartz (quartz)                                         | 14808-60-7 | carc            |              |                       |

#### Legend

carc Listed in "B List of carcinogenic substances"

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## SECTION 16: Other information

### Indication of changes (revised safety data sheet)

Previous version(s) is/are not available in this language.

### Abbreviations and acronyms

| Abbr.        | Descriptions of used abbreviations                                                                                                                                                                                    |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2017/2398/EU | Directive of the European Parliament and of the Council amending Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work                              |
| Acute Tox.   | Acute toxicity                                                                                                                                                                                                        |
| ADN          | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR          | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)                                                         |
| ATE          | Acute Toxicity Estimate                                                                                                                                                                                               |
| CAS          | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                                                                |
| CLP          | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures                                                                                                                    |
| CMR          | Carcinogenic, Mutagenic or toxic for Reproduction                                                                                                                                                                     |
| DGR          | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                                                            |
| DMEL         | Derived Minimal Effect Level                                                                                                                                                                                          |
| DNEL         | Derived No-Effect Level                                                                                                                                                                                               |
| EC No        | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)                                     |
| ED           | Endocrine disruptor                                                                                                                                                                                                   |
| EINECS       | European Inventory of Existing Commercial Chemical Substances                                                                                                                                                         |
| ELINCS       | European List of Notified Chemical Substances                                                                                                                                                                         |
| GHS          | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                                                             |
| IARC         | International Agency for Research on Cancer                                                                                                                                                                           |
| IATA         | International Air Transport Association                                                                                                                                                                               |

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| Abbr.    | Descriptions of used abbreviations                                                                                                                                      |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                          |
| ICAO     | International Civil Aviation Organization                                                                                                                               |
| IMDG     | International Maritime Dangerous Goods Code                                                                                                                             |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008                                                |
| IOELV    | Indicative occupational exposure limit value                                                                                                                            |
| LD50     | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval                                        |
| LEL      | Lower explosion limit (LEL)                                                                                                                                             |
| NLP      | No-Longer Polymer                                                                                                                                                       |
| PBT      | Persistent, Bioaccumulative and Toxic                                                                                                                                   |
| PNEC     | Predicted No-Effect Concentration                                                                                                                                       |
| ppm      | Parts per million                                                                                                                                                       |
| REACH    | Registration, Evaluation, Authorisation and Restriction of Chemicals                                                                                                    |
| RID      | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| SC-SZW   | Staatscourant: Regeling van de Minister van Sociale Zaken en Werkgelegenheid tot wijziging van de Arbeidsomstandighedenregeling                                         |
| STEL     | Short-term exposure limit                                                                                                                                               |
| STOT RE  | Specific target organ toxicity - repeated exposure                                                                                                                      |
| SVHC     | Substance of Very High Concern                                                                                                                                          |
| TWA      | Time-weighted average                                                                                                                                                   |
| UEL      | Upper explosion limit (UEL)                                                                                                                                             |
| vPvB     | Very Persistent and very Bioaccumulative                                                                                                                                |

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                                                                                |
|------|-------------------------------------------------------------------------------------|
| H302 | Harmful if swallowed.                                                               |
| H372 | Causes damage to organs (lung) through prolonged or repeated exposure (if inhaled). |

## Safety Data Sheet

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

amended by 2020/878/EU

### Ceramic/Refractory Coatings

Version number: 2.0  
Replaces version of: 10.12.2021 (1)

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#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.