

23 Haziran 2017 tarihli, 30105 sayılı, "T.C. Çevre ve Şehircilik Bakanlığı, KKDİK

Yönetmeliği, Ek-2" hükümlerine uygun olarak düzenlenmiştir.

## **Ceramic/Refractory Coatings**

Revision number: 1.0 Date of compilation: 19.01.2024

.2027

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

1.1 Product identifier

Trade name Ceramic/Refractory Coatings

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 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 Website: www.cressbv.nl

e-mail (competent person) info@cressbv.nl

1.4 Emergency telephone number

Emergency information service  $\pm 31(0)117712611$ 

This number is only available during the following office hours: Mon-

Fri 09:00 - 17:00

Poison centre

Country	Name	Telephone
Turkey	Acil Sağlık Hizmetleri	112
Turkey	Ulusal Zehir Danışma Merkezi (UZEM)	114

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification: T.C. 28848

Section	Hazard class	Category	Hazard class and category	Hazard state- ment
3.10	acute toxicity (oral)	4	Acute Tox. 4	H302
3.6	carcinogenicity	1A	Carc. 1A	H350
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: T.C. 28848

- signal word Danger

- pictograms

**GHS07, GHS08** 



- hazard statements

H302 Harmful if swallowed. H350 May cause cancer.

H372 Causes damage to organs through prolonged or repeated exposure.

- precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

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

#### 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

Name of substance	Identifier	Wt%	Classification (T.C.28848)	Pictograms	Notes
silica, crystalline - quartz (quartz)	CAS No 14808-60-7	35 – 50	Acute Tox. 4 / H302 Carc. 1A / H350 STOT RE 1 / H372	<b>(!)</b>	IARC: 1
	EC No 238-878-4		01011121711072	*	

Notes

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

#### Remarks

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

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#### **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 (CO2); 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. Nitrogen oxides (NOx). Carbon monoxide (CO).

### 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.

#### Special protective equipment for firefighters

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

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#### **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

Wipe up with absorbent material (e.g. cloth, fleece). Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

#### 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

Keep cool.

#### 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**

#### **Control parameters**

#### **National limit values**

Occupational exposure limit values (Workplace Exposure Limits)

Cou ntry	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Nota- tion	Source
TR	silica, amorphous (con- taining natural diatom- aceous earth)	112926-00- 8	MMSD		0,78			eq3	T.C. Resmi Gazete 28730
TR	silica, crystalline - quartz	14808-60-7	MMSD		0,29			i, eq2a	T.C. Resmi Gazete 28730
TR	silica, crystalline - quartz	14808-60-7	MMSD		0,09			r, eq1a	T.C. Resmi Gazete 28730

Notation

 $mg/m^3 = 10/(\%SiO2 + 2)$   $mg/m^3 = 30/(\%SiO2 + 2)$   $mg/m^3 = 80/\%SiO2$ inhalable fraction eq1a eq2a eq3 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)

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) TWA

#### 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

Skin protection



Chemical protective clothing.

Hand protection



Wear suitable gloves. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the

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resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. 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

NR: natural rubber, latex, Nitrile rubber, NP: neoprene

- material thickness

Use gloves with a minimum material thickness: ≥ 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. Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/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

#### **Appearance**

· · · · · · · · · · · · · · · · · · ·		
Physical state	liquid (slurry)	
Colour	dark grey - black	
Particle	not relevant (liquid)	
Odour	mild	

### Other safety parameters

pH (value)	8,7-9,7
Melting point/freezing point	0 °C
Initial boiling point and boiling range	95 – 105 °C
Flash point	not applicable
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	LEL: UEL: not determined
Vapour pressure	17,5 mmHg at 20 °C
Density	not determined

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Vapour density	1,54 – 1,58 (water = 1)
Relative density	information on this property is not available
Solubility	not determined
- n-octanol/water (log KOW)	this information is not available
Ignition temperature	
Decomposition temperature	no data available
Viscosity	not determined
- kinematic viscosity	not determined
Explosive properties	none
Oxidising properties	none

#### 9.2 Other information

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 toxicological effects

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 SEA

#### Acute toxicity

Harmful if swallowed.

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### - acute toxicity estimate (ATE)

Exposure route	ATE
Oral	1.000 <sup>mg</sup> / <sub>kg</sub>

#### Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
silica, crystalline - quartz (quartz)	14808-60-7	oral	500 <sup>mg</sup> / <sub>kg</sub>

#### Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
silica, crystalline - quartz (quartz)	14808-60-7	oral	LD50	500 <sup>mg</sup> / <sub>kg</sub>	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

May cause cancer.

### Reproductive toxicity

Shall not be classified as a reproductive toxicant.

### 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 through prolonged or repeated exposure.

#### 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  $\geq 0.1\%$ .

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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 ≥ 0,1%.

#### 12.6 Other adverse effects

Data are not available.

### 12.7 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq$  0.1%.

### **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.

### Relevant provisions relating to waste (Basel Convention)

#### Properties of waste which render it hazardous

H11 Toxic (Delayed or chronic)

#### 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 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 regu-

lations

### 14.6 Special precautions for user

There is no additional information.

### 14.7 Transport in bulk according to IMO instruments

No data available.

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

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**

### **National regulations**

- •11 Aralık 2013 tarihli, 28848 Sayılı, Maddelerin Ve Karışımların Sınıflandırılması, Etiketlenmesi Ve Ambalajlanması Hakkında
- •T.C. Çalışma ve Sosyal Güvenlik Bakanlığı, 12 Ağustos 2013 tarihli, 28733 sayılı, Kimyasal Maddelerle Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik.
- •T.C. Çalışma ve Sosyal Güvenlik Bakanlığı, 2 Temmuz 2013 tarihli, 28695 sayılı, Kişisel Koruyucu Donanımların İşyerlerinde Kullanılması Hakkında Yönetmelik.
- •T.C. Çalışma ve Sosyal Güvenlik Bakanlığı, 30 Haziran 2012 tarihli, 6331 sayılı, İş Sağlığı ve Güvenliği Kanunu.
- •T.C. Çevre ve Şehircilik Bakanlığı, 2 Nisan 2015 tarihli, 29314 sayılı, Atık Yönetimi Yönetmeliği. •T.C. Çevre ve Şehircilik Bakanlığı, 23 Haziran 2017 tarihli, 30105 sayılı, Kimyasalların Kaydı, Değerlendirilmesi, İzni Ve Kısıtlanması Hakkında Yönetmelik.

#### 15.2 **Chemical Safety Assessment**

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

#### **SECTION 16: Other information**

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
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
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
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
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code

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Abbr.	Descriptions of used abbreviations
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
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)
MMSD	Workplace exposure limit
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
T.C. Resmi Gaz- ete 28730	Regulation on health and safety measures in working with carcinogen or mutagen substances
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

By-law on the classification, labelling and packaging of substances and mixtures (T.C 28848). Ministry of Environment and Urbanization: Regulation on Safety Data Sheets for Hazardous Substances and Mixtures (T.C. 29204).

UN Recommendations on the Transport of Dangerous Good. Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). 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.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.

### Disclaimer

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

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