Safety Data Sheet according to (EC) No 1907/2006 as amended

Ceresit CE 40, all colours (RO)

SDS No. : 490131
V004.2
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Ceresit CE 40, all colours (RO)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
Jointing filler

1.3. Details of the supplier of the safety data sheet
Henkel Soad Ltd
Arie Regev Street 4
42504 Netanya

Israel

SDSinfo.Adhesive@henkel.com
For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

1.4. Emergency telephone number

HAAD Poison and Drug Information Center UAE, TOLL FREE TEL. NUMBER 800-424

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):

Skin irritation	Category 2
H315 Causes skin irritation.	
Serious eye damage	Category 1
H318 Causes serious eye damage.	
Specific target organ toxicity - single exposure	Category 3
H335 May cause respiratory irritation.	
Skin sensitizer	Category 1
H317 May cause an allergic skin reaction.	
Chronic hazards to the aquatic environment	Category 3
H412 Harmful to aquatic life with long lasting effects.	

2.2. Label elements

Label elements (CLP):

Hazard pictogram:



Contains Portland cement, low chromate

Flue dust, portland cement

2-Octyl-2H-isothiazol-3-one

Signal word: Danger

Hazard statement:
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement:
P102 Keep out of reach of children.
P260 Do not breathe dust.
P273 Avoid release to the environment.
P280 Wear protective gloves/eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 IF ON SKIN: Wash with plenty of water/…
P310 Immediately call a POISON CENTER/doctor/…
P501 Dispose of contents/container in accordance with national regulation.

2.3. Other hazards

None if used properly.

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration ≥ the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number	content	Classification
Cement, portland, chemicals 65997-15-1	266-043-4	20- 40 %	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Dam. 1 H318 STOT SE 3 H335
Quartz (SiO2), <1% respirable 14808-60-7	238-878-4	10- 20 %	
Flue dust, portland cement 68475-76-3	270-659-9	1- < 5 %	Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Dam. 1 H318 STOT SE 3 H335
Chromium (III) oxide 1308-38-9	215-160-9	1- < 5 %	
Titanium dioxide 13463-67-7	236-675-5	0,1- < 1 %	Carc. 2; Inhalation H351
2-Octyl-2H-isothiazol-3-one 26530-20-1	247-761-7	25- < 250 PPM	Acute Tox. 2; Inhalation H330 Acute Tox. 3; Dermal H311 Skin Corr. 1 H314 Skin Sens. 1A H317 Aquatic Acute 1 H400 Acute Tox. 3; Oral H301 Aquatic Chronic 1 H410 Eye Dam. 1 H318

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of adverse health effects seek medical advice.

Inhalation:
Move to fresh air, consult doctor if complaint persists.

Skin contact:
Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.
Do not rub eyes; mechanical action may cause corneal damage.

Ingestion:
Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed
May cause an allergic skin reaction.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

SKIN: Redness, inflammation.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

4.3. Indication of any immediate medical attention and special treatment needed
See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
carbon dioxide, foam, powder, water spray jet, fine water spray

Extinguishing media which must not be used for safety reasons:
High pressure waterjet

5.2. Special hazards arising from the substance or mixture
In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.

5.3. Advice for firefighters
Wear self-contained breathing apparatus.
Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective equipment.
Avoid contact with skin and eyes.
Ensure adequate ventilation.
Avoid dust formation.

6.2. Environmental precautions
Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up
Dispose of contaminated material as waste according to Section 13.
Remove mechanically.

6.4. Reference to other sections
See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid dust formation.
Ensure that workrooms are adequately ventilated.
Avoid skin and eye contact.

Hygiene measures:
Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.

7.2. Conditions for safe storage, including any incompatibilities

Store in sealed original container protected against moisture.
Store in a cool, dry place.
Avoid strictly temperatures below 0 °C and above + 50 °C.
Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

7.3. Specific end use(s)

Jointing filler

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for
Utd.Arab.Emir.

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Cement, portland, chemicals 65997-15-1 [PORTLAND CEMENT, RESPIRABLE FRACTION]		1	Time Weighted Average (TWA):		AD TLV
Cement, portland, chemicals 65997-15-1 [PORTLAND CEMENT (TOTAL DUST)]		10	Time Weighted Average (TWA):		DB OEL
Cement, portland, chemicals 65997-15-1 [PORTLAND CEMENT]		10	Time Weighted Average (TWA):		GCC TLV
Cement, portland, chemicals 65997-15-1 [PORTLAND CEMENT (TOTAL DUST)]		10	Time Weighted Average (TWA):		UAE OEL
Cement, portland, chemicals 65997-15-1 [PORTLAND CEMENT]		10	Time Weighted Average (TWA):		UAE OEL
Quartz (SiO2) 14808-60-7 [QUARTZ SILICA CRYSTALLINE, CRISTOBALITE, RESPIRABLE FRACTION]		0,025	Time Weighted Average (TWA):		AD TLV
Quartz (SiO2) 14808-60-7 [CRYSTALLIZE SILICA (QUARTZ) (RESPIRABLE DUST)]		0,1	Time Weighted Average (TWA):		DB OEL
Quartz (SiO2) 14808-60-7 [QUARTZ]		0,1	Time Weighted Average (TWA):		GCC TLV
Quartz (SiO2) 14808-60-7 [QUARTZ]		0,1	Time Weighted Average (TWA):		UAE OEL
Quartz (SiO2) 14808-60-7 [CRYSTALLINE SILICA (QUARTZ) (RESPIRABLE DUST)]		0,05	Time Weighted Average (TWA):		UAE OEL
Triiron tetraoxide 1317-61-9 [IRON OXIDE]		5	Time Weighted Average (TWA):		DB OEL
Silicic acid, aluminum sodium salt 1344-00-9 [ALUMINUM METAL AND INSOLUBLE COMPOUNDS, RESPIRABLE FRACTION]		1	Time Weighted Average (TWA):		AD TLV
Diiron trioxide 1309-37-1 [IRON OXIDE (FE2O3), RESPIRABLE FRACTION]		5	Time Weighted Average (TWA):		AD TLV
Diiron trioxide 1309-37-1 [IRON OXIDE]		5	Time Weighted Average (TWA):		GCC TLV
Diiron trioxide 1309-37-1 [IRON OXIDE]		5	Time Weighted Average (TWA):		UAE OEL
Diiron trioxide 1309-37-1 [IRON OXIDE]		5	Time Weighted Average (TWA):		DB OEL
Chromium (III) oxide 1308-38-9		0,5	Time Weighted Average (TWA):		AD TLV

[CHROMIUM (III) INORGANIC COMPOUNDS, AS CR]					
Chromium (III) oxide 1308-38-9 [CHROMITE (PROCESSING CHROMATE) AS CR AND (INORGANIC COMPOUNDS)]		0,05	Time Weighted Average (TWA):		AD TLV
Chromium (III) oxide 1308-38-9 [CHROMITE ORE PROCESSING AND INORGANIC COMPOUNDS, AS CR]		0,05	Time Weighted Average (TWA):		UAE OEL
Chromium (III) oxide 1308-38-9 [CHROMITE(PRCESSING CHROMATE) AS CR AND (INORGANIC COMPOUNDS)]		0,05	Time Weighted Average (TWA):		GCC TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		AD TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		GCC TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		UAE OEL

Occupational Exposure Limits

Valid for
Bharain

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Cement, portland, chemicals 65997-15-1 [PORTLAND CEMENT]		10	Time Weighted Average (TWA):		BH TLV
Cement, portland, chemicals 65997-15-1 [PORTLAND CEMENT]		10	Time Weighted Average (TWA):		GCC TLV
Quartz (SiO2) 14808-60-7 [QUARTZ]		0,1	Time Weighted Average (TWA):		BH TLV
Quartz (SiO2) 14808-60-7 [QUARTZ]		0,1	Time Weighted Average (TWA):		GCC TLV
Diiron trioxide 1309-37-1 [IRON OXIDE]		5	Time Weighted Average (TWA):		BH TLV
Diiron trioxide 1309-37-1 [IRON OXIDE]		5	Time Weighted Average (TWA):		GCC TLV
Chromium (III) oxide 1308-38-9 [CHROMITE (PRCESSING CHROMATE) AS CR AND (INORGANIC COMPOUNDS)]		0,05	Time Weighted Average (TWA):		BH TLV
Chromium (III) oxide 1308-38-9 [CHROMITE(PRCESSING CHROMATE) AS CR AND (INORGANIC COMPOUNDS)]		0,05	Time Weighted Average (TWA):		GCC TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		BH TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		GCC TLV

Occupational Exposure Limits

Valid for
Egypt

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Limestone 1317-65-3 [CALCIUM CARBONATE (INCLUDING LIMESTONE AND MARBLE), TOTAL DUST CONTAINING NO MORE THAN 1% CRYSTALLIZED SILICA AND NO ASBESTOS]		10	Time Weighted Average (TWA):		EG OEL
Quartz (SiO2) 14808-60-7 [SILICA, CRYSTALLINE - QUARTZ, TOTAL DUST]		0,29	Time Weighted Average (TWA):	The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.	EG OEL
Quartz (SiO2) 14808-60-7 [SILICA, CRYSTALLINE - QUARTZ, INHALABLE DUST]		0,098	Time Weighted Average (TWA):	The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.	EG OEL

Quartz (SiO2) 14808-60-7 [SILICA, CRYSTALLINE - QUARTZ]			Time Weighted Average (TWA):	The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.	EG OEL
Silicic acid, aluminum sodium salt 1344-00-9 [ALUMINUM SOLUBLE SALTS]		2	Time Weighted Average (TWA):		EG OEL
Diiron trioxide 1309-37-1 [IRON OXIDE DUST AND FUME (FE2O3) AS FE]		5	Time Weighted Average (TWA):		EG OEL
Chromium (III) oxide 1308-38-9 [CHROMIUM METAL AND INORGANIC CR(III) COMPOUNDS (AS CR)]		0,5	Time Weighted Average (TWA):		EG OEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		EG OEL

Occupational Exposure Limits

Valid for
Jordan

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Quartz (SiO2) 14808-60-7 [SILICA, CRYSTALLINE TYPE: QUARTZ, RESPIRABLE DUST]		0,1	Time Weighted Average (TWA):		JO TLV
Diiron trioxide 1309-37-1 [IRON OXIDE (FUME)]		5	Time Weighted Average (TWA):		JO TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]	100	375	Time Weighted Average (TWA):		JO TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]	450	560	Short Term Exposure Limit (STEL):		JO TLV

Occupational Exposure Limits

Valid for
Kuwait

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Limestone 1317-65-3 [MARBLE (CALCIUM CARBONATE), TOTAL]		10	Time Weighted Average (TWA):		KW OEL
Limestone 1317-65-3 [MARBLE (CALCIUM CARBONATE), INHALED]		5	Time Weighted Average (TWA):		KW OEL
Limestone 1317-65-3 [MARBLE (CALCIUM CARBONATE), INHALED]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Limestone 1317-65-3 [MARBLE (CALCIUM CARBONATE), TOTAL]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Cement, portland, chemicals 65997-15-1		10	Time Weighted Average (TWA):		GCC TLV

[PORTLAND CEMENT]					
Cement, portland, chemicals 65997-15-1 [PORTLAND CEMENT, TOTAL]		10	Time Weighted Average (TWA):		KW OEL
Cement, portland, chemicals 65997-15-1 [PORTLAND CEMENT, INHALED]		5	Time Weighted Average (TWA):		KW OEL
Cement, portland, chemicals 65997-15-1 [PORTLAND CEMENT, TOTAL]		5.000	Harmful Concentration for risk to health and life:		KW OEL
Cement, portland, chemicals 65997-15-1 [PORTLAND CEMENT, INHALED]		5.000	Harmful Concentration for risk to health and life:		KW OEL
Quartz (SiO2) 14808-60-7 [QUARTZ]		0,1	Time Weighted Average (TWA):		GCC TLV
Quartz (SiO2) 14808-60-7 [SILICA CRYSTALLINE, QUARTZ]		0,1	Time Weighted Average (TWA):		KW OEL
Quartz (SiO2) 14808-60-7 [SILICA CRYSTALLINE, QUARTZ]		25	Harmful Concentration for risk to health and life:		KW OEL
Triiron tetraoxide 1317-61-9 [IRON OXIDE (FUME AND DUST)]		5	Time Weighted Average (TWA):		KW OEL
Triiron tetraoxide 1317-61-9 [IRON OXIDE (FUME AND DUST)]		2.500	Harmful Concentration for risk to health and life:		KW OEL
Silicic acid, aluminum sodium salt 1344-00-9 [SOLUBLE ALUMINUM COMPOUNDS]		2	Time Weighted Average (TWA):		KW OEL
Silicic acid, aluminum sodium salt 1344-00-9 [SOLUBLE ALUMINUM COMPOUNDS]	500		Harmful Concentration for risk to health and life:		KW OEL
Diiron trioxide 1309-37-1 [IRON OXIDE]		5	Time Weighted Average (TWA):		GCC TLV
Diiron trioxide 1309-37-1 [IRON OXIDE (FUME AND DUST)]		5	Time Weighted Average (TWA):		KW OEL
Diiron trioxide 1309-37-1 [IRON OXIDE (FUME AND DUST)]		2.500	Harmful Concentration for risk to health and life:		KW OEL
Diiron trioxide 1309-37-1 [PARTICULATES, TOTAL]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Diiron trioxide 1309-37-1 [PARTICULATES, INHALED]			Harmful Concentration for risk to health and life:	Unknown	KW OEL
Diiron trioxide 1309-37-1 [PARTICULATES, TOTAL]		15	Time Weighted Average (TWA):		KW OEL
Diiron trioxide 1309-37-1 [PARTICULATES, INHALED]		5	Time Weighted Average (TWA):		KW OEL
Chromium (III) oxide 1308-38-9 [CHROMIUM (METAL) AND CHROMIUM COMPOUNDS]		0,5	Time Weighted Average (TWA):		KW OEL
Chromium (III) oxide 1308-38-9 [CHROMIUM (METAL) AND CHROMIUM COMPOUNDS]		250	Harmful Concentration for risk to health and life:		KW OEL
Chromium (III) oxide 1308-38-9 [CHROMITE(PRCESSING CHROMATE) AS CR AND (INORGANIC COMPOUNDS)]		0,05	Time Weighted Average (TWA):		GCC TLV
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		GCC TLV

Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		10	Time Weighted Average (TWA):		KW OEL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE]		5.000	Harmful Concentration for risk to health and life:		KW OEL

Occupational Exposure Limits

Valid for
Israel

Ingredient [Regulated substance]	ppm	mg/m^3	Value type	Short term exposure limit category / Remarks	Regulatory list
Limestone 1317-65-3 [Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles]		10	Time Weighted Average (TWA):		IL OEL
Limestone 1317-65-3 [Particles (insoluble or poorly soluble) not otherwise specified, respirable particles]		3	Time Weighted Average (TWA):		IL OEL
Cement, portland, chemicals 65997-15-1 [Portland cement, respirable fraction]		1	Time Weighted Average (TWA):		IL OEL
Quartz (SiO2) 14808-60-7 [Silica, crystalline-α-Quartz, respirable fraction]		0,025	Time Weighted Average (TWA):		IL OEL
Silicic acid, aluminum sodium salt 1344-00-9 [Aluminum metal and insoluble compounds, respirable fraction]		1	Time Weighted Average (TWA):		IL OEL
Diiron trioxide 1309-37-1 [Iron oxide (Fe2O3), respirable fraction]		5	Time Weighted Average (TWA):		IL OEL
Chromium (III) oxide 1308-38-9 [CHROMIUM INORGANIC COMPOUNDS: III METAL AND CR III COMPOUNDS (AS CR)]		0,25	Action level (AL):		IL OEL
Chromium (III) oxide 1308-38-9 [Trivalent chromium inorganic compounds, including Chromite ore processing, as Cr (III), inhalable fraction]		0,003	Time Weighted Average (TWA):		IL OEL
Chromium (III) oxide 1308-38-9 [Trivalent chromium water soluble inorganic compounds, including Chromite ore processing, as Cr (III), inhalable fraction]		0,003	Time Weighted Average (TWA):		IL OEL
Chromium (III) oxide 1308-38-9 [Chromium inorganic compounds: III metal and Cr III compounds (as Cr)]		0,5	Time Weighted Average (TWA):		IL OEL
Titanium dioxide 13463-67-7 [Titanium dioxide, finescale particles, respirable fraction]		2,5	Time Weighted Average (TWA):		IL OEL
Titanium dioxide 13463-67-7 [Titanium dioxide, nanoscale particles, respirable fraction]		0,2	Time Weighted Average (TWA):		IL OEL

Occupational Exposure Limits

Valid for
Kenya

Ingredient [Regulated substance]	ppm	mg/m³	Value type	Short term exposure limit category / Remarks	Regulatory list
Limestone 1317-65-3 [MARBLE TOTAL INHALABLE DUST LIMESTONE TOTAL INHALABLE DUST CALCIUM CARBONATE TOTAL INHALABLE DUST]		10	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Limestone 1317-65-3 [MARBLE RESPIRABLE DUST CALCIUM CARBONATE RESPIRABLE DUST LIMESTONE RESPIRABLE DUST]		5	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Cement, portland, chemicals 65997-15-1 [PORTLAND CEMENT TOTAL INHALABLE DUST CEMENT TOTAL INHALABLE DUST]		10	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Cement, portland, chemicals 65997-15-1 [PORTLAND CEMENT RESPIRABLE DUST CEMENT RESPIRABLE DUST]		5	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Quartz (SiO2) 14808-60-7 [SILICA, CRYSTALLINE, RESPIRABLE DUST]		0,4	Time-weighted average (TWA) OEL-CL:		KE OEL-CL
Quartz (SiO2) 14808-60-7 [QUARTZ, CRYSTALLINE RESPIRABLE DUST]		0,4	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Silicic acid, aluminum sodium salt 1344-00-9 [ALUMINIUM SALTS, SOLUBLE]		2	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Diiron trioxide 1309-37-1 [IRON OXIDE, FUME (AS FE)]		5	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Diiron trioxide 1309-37-1 [ROUGE TOTAL INHALABLE DUST]		10	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Diiron trioxide 1309-37-1 [ROUGE RESPIRABLE DUST]		5	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Diiron trioxide 1309-37-1 [IRON OXIDE, FUME (AS FE)]		10	Short-term OEL-RL:		KE OEL-RL
Chromium (III) oxide 1308-38-9 [CHROMIUM(III) COMPOUNDS (AS CR)]		0,5	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Chromium (III) oxide 1308-38-9 [CHROMIUM(II) COMPOUNDS (AS CR)]		0,5	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE RESPIRABLE DUST]		5	Time-weighted average (TWA) OEL-RL:		KE OEL-RL
Titanium dioxide 13463-67-7 [TITANIUM DIOXIDE TOTAL INHALABLE DUST]		10	Time-weighted average (TWA) OEL-RL:		KE OEL-RL

Biological Exposure Indices:

None

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
Chromium (III) oxide 1308-38-9 [Chromium]	Total chromium	Urine	Sampling time: End of shift at end of work week.	0,7 µg/l	IL BEI	Persistent Organic Pollutant (POP)	Source of Limit value: ACGIH

8.2. Exposure controls:

Respiratory protection:

In case of dust formation, we recommend wearing of appropriate respiratory protection equipment with particle filter P (EN 14387).

This recommendation should be matched to local conditions.

Hand protection:

In the case of longer contact protective gloves made from nitrile rubber are recommended according to EN 374.
Perforation time > 480 minutes
material thickness > 0.1 mm
In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

Eye protection:

Goggles which can be tightly sealed.
Protective eye equipment should conform to EN166.

Skin protection:

Suitable protective clothing
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	powder solid colored
Odor	specific
Odour threshold	No data available / Not applicable
pH (20 °C (68 °F); Conc.: 30 % product; Solvent: Water)	12
Initial boiling point	> 1.000 °C (> 1832 °F)
Flash point	Not applicable
Decomposition temperature	No data available / Not applicable
Vapour pressure (20 °C (68 °F))	< 0,1 hPa
Density	No data available / Not applicable
Bulk density	0,9 - 1,1 g/cm3

Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative) (23 °C (73.4 °F); Solvent: Water)	practically insoluble in water -hydraulically setting at influence of water
Solidification temperature	No data available / Not applicable
Melting point	> 1.000 °C (> 1832 °F)
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	No data available / Not applicable
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	Not applicable, Product is a solid.
Oxidising properties	No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
Reaction with acids: production of heat and carbon dioxide.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
None if used for intended purpose.

10.5. Incompatible materials
See section reactivity.

10.6. Hazardous decomposition products
None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Quartz (SiO2), <1% respirable 14808-60-7	LD50	> 5.050 mg/kg	oral		rat	not specified
Chromium (III) oxide 1308-38-9	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)
Titanium dioxide 13463-67-7	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
2-Octyl-2H-isothiazol-3-one 26530-20-1	Acute toxicity estimate (ATE)	125 mg/kg	oral			Expert judgement

Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Chromium (III) oxide 1308-38-9	LC50	> 5,41 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Titanium dioxide 13463-67-7	LC50	> 6,82 mg/l	dust	4 h	rat	not specified
2-Octyl-2H-isothiazol-3-one 26530-20-1	Acute toxicity estimate (ATE)	0,27 mg/l	dust/mist	4 h		Expert judgement

Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Cement, portland, chemicals 65997-15-1	LD50	> 2.000 mg/kg	dermal		rabbit	Limit Test
Quartz (SiO2), <1% respirable 14808-60-7	LD50	> 2.000 mg/kg	dermal		not specified	not specified
Titanium dioxide 13463-67-7	LD50	> 10.000 mg/kg	dermal		rabbit	not specified
2-Octyl-2H-isothiazol-3-one 26530-20-1	Acute toxicity estimate (ATE)	311 mg/kg	dermal			Expert judgement

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Chromium (III) oxide 1308-38-9	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Titanium dioxide 13463-67-7	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Chromium (III) oxide 1308-38-9	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Titanium dioxide 13463-67-7	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Chromium (III) oxide 1308-38-9	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Titanium dioxide 13463-67-7	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Titanium dioxide 13463-67-7	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
2-Octyl-2H-isothiazol-3-one 26530-20-1	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Chromium (III) oxide 1308-38-9	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Chromium (III) oxide 1308-38-9	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Titanium dioxide 13463-67-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
	negative	in vitro mammalian cell micronucleus test	without		equivalent or similar to OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Titanium dioxide 13463-67-7	negative	oral: gavage		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Carcinogenicity:

Hazardous components CAS-No.	Result	Species	Sex	Exposure timeFrequency of treatment	Route of application	Method
Titanium dioxide 13463-67-7	not carcinogenic	rat	male/female	103 w daily	oral: feed	not specified

Reproductive toxicity:

Hazardous substances CAS-No.	Result / Classification	Species	Exposure time	Species	Method
Titanium dioxide 13463-67-7	NOAEL P = >= 1.000 mg/kg NOAEL F1 = >= 1.000 mg/kg	one-generation study oral: feed		rat	OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study)

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Chromium (III) oxide 1308-38-9	NOAEL=> 2.000 mg/kg	oral: feed	90 d5 d/w	rat	not specified
Titanium dioxide 13463-67-7	NOAEL=> 1.000 mg/kg	oral: gavage	92 ddaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

SECTION 12: Ecological information

General ecological information:

Do not empty into drains, soil or bodies of water.

12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Cement, portland, chemicals 65997-15-1	LC50	> 10.000 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cement, portland, chemicals 65997-15-1	EC50	> 10.000 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cement, portland, chemicals 65997-15-1	NOEC	60 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	ISO 8692 (Water Quality)
	EC50	440 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	ISO 8692 (Water Quality)
Cement, portland, chemicals 65997-15-1	EC0	10.000 mg/l	Bacteria	30 min	Pseudomonas putida	DIN 38412, part 27 (Bacterial oxygen consumption test)
Quartz (SiO2), <1% respirable 14808-60-7	LC50	> 1.000 mg/l	Fish	96 h	not specified	OECD Guideline 203 (Fish, Acute Toxicity Test)
Quartz (SiO2), <1% respirable 14808-60-7	EC50	> 1.000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Quartz (SiO2), <1% respirable 14808-60-7	EC50	> 1.000 mg/l	Algae	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
Quartz (SiO2), <1% respirable 14808-60-7	EC0	> 1.000 mg/l	Bacteria	3 h	not specified	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Flue dust, portland cement 68475-76-3	EC50	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Flue dust, portland cement 68475-76-3	EL50	22,4 mg/l	Algae	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEL	6,25 mg/l	Algae	72 h	Desmodesmus subspicatus (reported as Scenedesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Flue dust, portland cement 68475-76-3	EL10	68,2 mg/l	chronic Daphnia	28 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Chromium (III) oxide 1308-38-9	LC50	Toxicity > Water solubility	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	ISO 7346-1 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae)]
	NOEC	Toxicity > Water solubility	Fish	30 d	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 210 (fish early lite stage toxicity test)
Chromium (III) oxide 1308-38-9	LC50	Toxicity > Water solubility	Daphnia	48 h	Ceriodaphnia dubia	other guideline:
Chromium (III) oxide 1308-38-9	EC50	Toxicity > Water solubility	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC10	Toxicity > Water solubility	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)

Chromium (III) oxide 1308-38-9	NOEC	Toxicity > Water solubility	chronic Daphnia	21 d	Daphnia magna	other guideline:
Titanium dioxide 13463-67-7	LC50	Toxicity > Water solubility	Fish	48 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Titanium dioxide 13463-67-7	EC50	Toxicity > Water solubility	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Titanium dioxide 13463-67-7	EC50	Toxicity > Water solubility	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	Toxicity > Water solubility	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Titanium dioxide 13463-67-7	EC0	Toxicity > Water solubility	Bacteria	24 h	Pseudomonas fluorescens	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
Titanium dioxide 13463-67-7	NOEC	Toxicity > Water solubility	chronic Daphnia	21 d	Daphnia magna	OECD Guideline 202 (Daphnia sp. Chronic Immobilisation Test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	LC50	0,036 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
	NOEC	0,022 mg/l	Fish	21 d	Oncorhynchus mykiss	OECD Guideline 210 (fish early lite stage toxicity test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	EC50	0,42 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	EC50	0,00129 mg/l	Algae	48 h	Navicula pelliculosa	OECD Guideline 201 (Alga, Growth Inhibition Test)
	EC10	0,000224 mg/l	Algae	48 h	Navicula pelliculosa	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Octyl-2H-isothiazol-3-one 26530-20-1	NOEC	0,0016 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
2-Octyl-2H-isothiazol-3-one 26530-20-1	not readily biodegradable.	aerobic	35 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Chromium (III) oxide 1308-38-9	2,97					not specified
2-Octyl-2H-isothiazol-3-one 26530-20-1	2,9					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB

Cement, portland, chemicals 65997-15-1	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
Quartz (SiO2), <1% respirable 14808-60-7	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
Flue dust, portland cement 68475-76-3	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
Chromium (III) oxide 1308-38-9	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
Titanium dioxide 13463-67-7	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
2-Octyl-2H-isothiazol-3-one 26530-20-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

170106

SECTION 14: Transport information

14.1. UN number or ID number

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.2. UN proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.3. Transport hazard class(es)

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.4. Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

14.6. Special precautions for user

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

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

not applicable

SECTION 15: Regulatory information

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

No information available:

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable

15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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