

### Revision nr. 5 Dated 13/04/2023

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

1.1. Product identifier

Mixture identification: Product Name: Code:

NEOCOLLOID C302205, C302205., C302230

**1.2. Relevant identified uses of the substance or mixture and uses advised against** For professional use only. Alginate for dental impression.

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

Name

Zhermack S.p.a Via Bovazecchino 100 45021 Badia Polesine (RO) Italy tel. +39 0425-597611 fax +39 0425-597689 etent person responsible for

Competent person responsible for the safety data sheet: msds@zhermack.com

**1.4. Emergency telephone number** 

UK Emergency number: 999 (24 hours)

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

#### EC regulation criteria 1272/2008 (CLP)

STOT RE 2, H373 May cause damage to organs (lungs) through prolonged or repeated exposure if inhaled.

Aquatic Chronic 3, H412 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

### No other hazards

#### 2.2. Label elements

The Regulation EC 1272/2008, on classification, labelling and packaging of substances and mixtures (CLP), shall not apply to a medical device in the finished state used in direct physical contact with the human body according to art. 1.5, letter d). Therefore the product is exempted from the CLP labeling requirements.

Hazard pictograms:



Warning

Hazard statements:

H373 May cause damage to organs (lungs) through prolonged or repeated exposure if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

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

P273 Avoid release to the environment.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P314 Get medical advice/attention if you feel unwell.

Special Provisions:

EUH208 Contains d-carvone; (5S)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one. May produce an allergic reaction.

Contains

Cristobalite

Special provisions according to Annex XVII of REACH and subsequent amendments: None

#### 2.3. Other hazards

Classification of the mixture is based on the results of an in vitro assay conducted in accordance with the guidelines provided by OCSE (OECD Test Guideline 437 resp. EU Method B.47 – Bovine Corneal Opacity and Permeability (BCOP) Test Method) and GLP certified - Good Laboratory Practices. For more information refer to section 11.

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%Other Hazards:

No other hazards

#### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not Applicable

#### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb	er	Classification
>= 5% - < 8%	Cristobalite	CAS: EC:	14464-46-1 238-455-4	STOT RE 1 H372 Causes damage to organs (lungs) through prolonged or repeated exposure if inhaled.
>= 3% - < 5%	Dipotassium exafluorotitanate	CAS: EC: REACH No.:	16919-27-0 240-969-9 01-21199782 68-20-XXXX	Acute Tox. 4 H302 Harmful if swallowed. Eye Dam. 1 H318 Causes serious eye damage. Acute Toxicity Estimate: ATE - Oral 324 mg/kg bw
>= 0,5% - < 2,5%	zinc oxide	Index number: CAS: EC: REACH No.:	030-013-00-7 1314-13-2 215-222-5 01-21194638 81-32-XXXX	Aquatic Acute 1 H400 Very toxic to aquatic life. M=1. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. M=1.
>= 0,5% - < 2,5%	Paraffin oil	CAS: EC: REACH No.:	8042-47-5 232-455-8 01-21194870 78-27-XXXX	Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
>= 0,5% - < 2,5%	Tetrasodium pyrophosphate	CAS: EC: REACH No.:	7722-88-5 231-767-1 01-21194897 94-17-XXXX	Acute Tox. 4 H302 Harmful if swallowed. Eye Dam. 1 H318 Causes serious eye damage. Acute Toxicity Estimate: ATE - Oral 300 mg/kg bw

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>= 0,1% - < 0,3%	d-carvone; (5S)-2-methyl-5-(prop-	Index number:	606-148-00-8	Skin Sens. 1B H317 May cause an allergic skin reaction.
,		CAS: EC:	2244-16-8 218-827-2 01-21207621 54-58-XXXX	5

Substances in nanoform:

>= 1% - < 3% Dipotassium exafluorotitanate

REACH No.: 01-2119978268-20-XXXX, CAS: 16919-27-0, EC: 240-969-9

>= 0,5% - < 2,5% Magnesium hydroxide

REACH No.: 01-2119488756-18-XXXX, CAS: 1309-42-8, EC: 215-170-3

>= 0,1% - < 0,3% 2-[(4-methyl-2-nitrophenyl)azo]-3-oxo-N-phenylbutyramide REACH No.: 01-2119958943-22-XXXX, CAS: 2512-29-0, EC: 219-730-8

<0,1% Silicon dioxide, amorphous REACH No.: 01-2119379499-16-XXXX, CAS: 7631-86-9, EC: 231-545-4

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

In case of skin contact:

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. Wash with plenty of water and soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediatley and dispose off safely.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

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

- None
- 4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Treatment:

None

#### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media: Water. Carbon dioxide (CO2). Extinguishing media which must not be used for safety reasons: None in particular.
- **5.2. Special hazards arising from the substance or mixture** Do not inhale explosion and combustion gases. Burning produces heavy smoke.
- 5.3. Advice for firefighters

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Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

#### SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
  - For non emergency personnel: Wear personal protection equipment. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Provide adequate ventilation. Use appropriate respiratory protection. See protective measures under point 7 and 8. For emergency responders: Wear personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

- 6.3. Methods and material for containment and cleaning up
  - Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

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

Keep away from food, drink and feed. Incompatible materials: See section 10.5. Instructions as regards storage premises: Adequately ventilated premises.

#### 7.3. Specific end use(s)

See section 1.2.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters NEOCOLLOID

Cristobalite - CAS: 14464-46-1

OEL Type	TWA	Duratio	STEL	Duratio	Notes	Country
		n		n		
EU	0.1 mg/m3	8h			Respirable	

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TLV	0.1 mg/m3	8h	Respirable ITALY
ACGIH	0.025 mg/m3	8h	(R), A2 - Pulm fibrosis, lung cancer

Dipotassium exafluorotitanate - CAS: 16919-27-0

OEL Type	TWA	Duratio	STEL	Duratio	Notes	Country
		n		n		
No data available						

zinc oxide - CAS: 1314-13-2

OEL Type	TWA	Duratio n	STEL	Duratio n	Notes	Country
VLA	2 mg/m3	8h	10 mg/m3	15min		SPAIN
MV	5 mg/m3	8h	20 mg/m3	15min	Respirable	SLOVENIA
VME/VLE	3 mg/m3	8h	3 mg/m3	15min	Respirable	SWITZERLA ND
MAK	2 mg/m3	8h	4 mg/m3	15min	Inhalable	GERMANY
MAK	0.1 mg/m3	8h	0.4 mg/m3	15min	Respirable	GERMANY
MAK	3 mg/m3	8h	3 mg/m3	15min	Respirable	SWITZERLA ND
AK	5 mg/m3	8h	20 mg/m3	15min	Respirable	HUNGARY
GVI/KGVI	2 mg/m3	8h	10 mg/m3	15min	Respirable	CROATIA
HTP	2 mg/m3	8h	10 mg/m3	15min		FINLAND
MAK	5 mg/m3	8h			Respirable	AUSTRIA
NDS/NDSCh	5 mg/m3	8h	10 mg/m3	15min	Inhalable	POLAND
NGV/KGV	5 mg/m3	8h				SWEDEN
NPEL	1 mg/m3	8h	1 mg/m3	15min	Respirable	SLOVAKIA (Slovak Republic)
OELV	2 mg/m3	8h			Respirable	IRELAND
RD	5 mg/m3	8h				LITHUANIA
RV	0.5 mg/m3	8h				LATVIA
TLV	5 mg/m3	8h				ESTONIA
TLV	5	8h				NORWAY

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	mg/m3					
TLV	5 mg/m3	8h	10 mg/m3	15min		ROMANIA
TLV	2 mg/m3	8h	5 mg/m3	15min		CZECH REPUBLIC
TLV	4 mg/m3	8h				DENMARK
TLV	5 mg/m3	8h	10 mg/m3	15min		BULGARIA
TLV	5 mg/m3	8h	10 mg/m3	15min		GREECE
VLEP	5 mg/m3	8h				FRANCE
VLEP	2 mg/m3	8h	10 mg/m3	15min	Respirable	BELGIUM
TLV-ACGIH	2 mg/m3	8h	10 mg/m3	15min	(R) - Metal fume fever	
ACGIH	2 mg/m3	8h	10 mg/m3		(R) - Metal fume fever	

Paraffin oil - CAS: 8042-47-5

OEL Type	TWA	Duratio	STEL	Duratio	Notes	Country
		n		n		
AGW	5 mg/m3	8h	20 mg/m3	15min	Respirable	GERMANY
MAK	5 mg/m3	8h	20 mg/m3	15min	Respirable	GERMANY
TLV	5 mg/m3	8h	10 mg/m3	15min		ROMANIA
MAK	5 mg/m3	8h			Inhalable	SWITZERLA ND

Tetrasodium pyrophosphate - CAS: 7722-88-5

OEL Type	TWA	Duratio	STEL	Duratio	Notes	Country
		n		n		
MAK	5 mg/m3	8h			Inhalable	SWITZERLA ND
GVI/KGVI	5 mg/m3	8h				CROATIA
MAK	5 mg/m3	8h	10 mg/m3	15min	Inhalable	AUSTRIA
OELV	5 mg/m3	8h				IRELAND
TLV	5 mg/m3	8h				NORWAY
TLV	5 mg/m3	8h				DENMARK
VLEP	5 mg/m3	8h				FRANCE
VLEP	5 mg/m3	8h				BELGIUM
WEL	5	8h				UNITED

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	mg/m3			KINGDOM
MV	5 mg/m3	8h	Inhalable	SLOVENIA
VME/VLE	5 mg/m3	8h	Inhalable	SWITZERLA ND

d-carvone; (5S)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one - CAS: 2244-16-8

OEL Type	TWA	Duratio	STEL	Duratio	Notes	Country
		n		n		
No data available						

#### **DNEL Exposure Limit Values**

JNEL Exposure Limit Values
Dipotassium exafluorotitanate - CAS: 16919-27-0
Worker Professional: 5.2 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects
Worker Professional: 5.2 mg/m3 - Exposure: Human Inhalation - Frequency: Long
Term, systemic effects
Worker Professional: 5.2 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 75 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 75 mg/kg bw/d - Exposure: Human Dermal - Frequency: Short
Term, systemic effects Consumer: 37.5 mg/kg bw/d - Exposure: Human Dermal - Frequency: Short Term,
systemic effects Consumer: 37.5 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term,
systemic effects zinc oxide - CAS: 1314-13-2
Consumer: 0.83 mg/kg/d - Exposure: Human Oral - Frequency: Long Term, systemic
effects
Consumer: 2.5 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 5 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 87 mg/kg/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 87 mg/kg/d - Exposure: Human Dermal - Frequency: Long Term,
systemic effects Paraffin oil - CAS: 8042-47-5
Consumer: 93 mg/kg/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 35 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 40 mg/kg/d - Exposure: Human Oral - Frequency: Long Term, systemic effects
Worker Professional: 220 mg/kg/d - Exposure: Human Dermal - Frequency: Long
Term, systemic effects Worker Professional: 160 mg/m3 - Exposure: Human Inhalation - Frequency: Long
Term, systemic effects Tetrasodium pyrophosphate - CAS: 7722-88-5
Worker Professional: 2.79 mg/m3 - Exposure: Human Inhalation - Frequency: Long
Term, local effects Consumer: 0.68 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local
effects
d-carvone; (5S)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one - CAS: 2244-16-8

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Consumer: 8450 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Worker Professional: 47500 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects Consumer: 4.29 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term, systemic effects Worker Professional: 12 mg/kg bw/d - Exposure: Human Dermal - Frequency: Long Term. systemic effects Consumer: 4.29 mg/kg bw/d - Exposure: Human Oral - Frequency: Long Term, systemic effects **PNEC Exposure Limit Values** Dipotassium exafluorotitanate - CAS: 16919-27-0 Target: Fresh Water - Value: 0.131 mg/l Target: Marine water - Value: 0.131 mg/l Target: Freshwater sediments - Value: 24.45 03 Target: Marine water sediments - Value: 4.89 03 Target: Microorganisms in sewage treatments - Value: 1.5 mg/l Target: Soil (agricultural) - Value: 19.1 mg/kg Target: intermittent release - Value: 0.108 mg/l zinc oxide - CAS: 1314-13-2 Target: Fresh Water - Value: 117 mg/l Target: Marine water - Value: 0.0061 mg/l Target: Freshwater sediments - Value: 117 mg/kg Target: Marine water sediments - Value: 56.5 mg/kg Target: Microorganisms in sewage treatments - Value: 0.052 mg/l Target: Soil (agricultural) - Value: 35.6 mg/kg Tetrasodium pyrophosphate - CAS: 7722-88-5 Target: Fresh Water - Value: 0.05 mg/l Target: Marine water - Value: 0.005 mg/l Target: intermittent release - Value: 0.5 mg/l d-carvone; (5S)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one - CAS: 2244-16-8 Target: Fresh Water - Value: 0.5 mg/l Target: Marine water - Value: 0.05 mg/l Target: Freshwater sediments - Value: 0.861 mg/kg Target: Marine water sediments - Value: 0.0861 mg/kg Target: intermittent release - Value: 0.5 mg/l Target: Microorganisms in sewage treatments - Value: 20.196 mg/l Target: Soil (agricultural) - Value: 0.143 mg/kg 8.2. Exposure controls Precautionary measures: Give adequate ventilation to the premises where the product is stored and/or handled. Eye protection: Wear airtight protective goggles (EN 166). Protection for skin: Wear professional overalls and safety footwear (EN 14605). Protection for hands: Protect hands with work gloves (EN 374). The following should be considered when choosing work glove material (EN 374): compatibility, degradation, failure time and permeability. The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use. Respiratory protection: Mask with filter "P2 or P3". Thermal Hazards: None Environmental exposure controls:

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None Appropriate engineering controls: None

SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Dust		
Colour:	Orange		
Odour:	mint		
Melting point/freezing point:	Not available		
Boiling point or initial boiling point and boiling range:	Not available		
Flammability:	Not available		
Lower and upper explosion limit:	Not available		
Flash point:	Not available		
Auto-ignition temperature:	Not available		
Decomposition temperature:	Not available		
pH:	Not available		
Kinematic viscosity:	Not available		
Solubility in water:	Partially soluble		
Solubility in oil:	Not available		
Partition coefficient n-octanol/water (log value):	Not available		
Vapour pressure:	Not available		
Density and/or relative density:	0.2-0.5 g/cm3		
Relative vapour density:	Not available		
	Particle characteristics:		
Particle size:	Not available		
Nanoforms:	See Nanoform information in Section 3.		

#### 9.2. Other information

No other relevant information

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

- Stable under normal conditions
- 10.2. Chemical stability
  - Stable under normal conditions
- 10.3. Possibility of hazardous reactions None
- **10.4. Conditions to avoid** Stable under normal conditions.
- 10.5. Incompatible materials
  - None in particular.

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#### 10.6. Hazardous decomposition products

None.

#### **SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicological information of the product: NEOCOLLOID

a) acute toxicity Not classified

b) skin corrosion/irritation Not classified

 c) serious eye damage/irritation Not classified
 Test: In vitro - Based on available data, the classification criteria are not met - Source: Notes: Bridging principle, OECD 437 resp. EU Method B.47, GLP, study report 2019
 d) respiratory or skin sensitisation

Not classified

e) germ cell mutagenicity Not classified

f) carcinogenicity Not classified

g) reproductive toxicity Not classified

h) STOT-single exposure Not classified

 i) STOT-repeated exposure The product is classified: STOT RE 2 H373
 j) aspiration hazard Not classified

Toxicological information of the main substances found in the product:

Cristobalite - CAS: 14464-46-1
i) STOT-repeated exposure: Route: Inhalation - Notes: Silicosis, pulmonary fibrosis; Target organ: lungs - Source: (MSDS supplier).
Dipotassium exafluorotitanate - CAS: 16919-27-0
a) acute toxicity ATE - Oral 324 mg/kg bw Test: LD50 - Route: Oral - Species: Rat 324 mg/kg - Source: (OECD 401, ECHA dossier).
b) skin corrosion/irritation: Species: Rabbit - Based on available data, the classification criteria are not met -Source: (OECD 404, MSDS supplier).
c) serious eye damage/irritation: Species: Rabbit - Eye Corrosive - Source: (OECD 405, MSDS supplier).
d) respiratory or skin sensitisation:

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Test: Skin Sensitization - Species: Guinea pig - Based on available data, the classification criteria are not met - Source: (OECD 406, MSDS supplier). e) germ cell mutagenicity: Test: In vitro - Species: Salmonella Typhimurium - Negative - Source: (OECD 471, MSDS supplier). Test: In vitro - Positive - Source: (OECD 487, MSDS supplier). Test: In vitro - Negative - Source: (OECD 476, MSDS supplier). Test: In vivo - Species: Rat - Negative - Source: (OECD 474, MSDS supplier). zinc oxide - CAS: 1314-13-2 a) acute toxicity: Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: (OECD 402, GLP, ECHA dossier). Test: LC50 - Route: Inhalation - Species: Rat > 5.7 mg/l - Source: (OECD 403, ECHA dossier). Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: (OECD 401, ECHA dossier). b) skin corrosion/irritation: Species: Rabbit - Based on available data, the classification criteria are not met -Source: (ECHA dossier). c) serious eye damage/irritation: Species: Rabbit - Based on available data, the classification criteria are not met -Source: (ECHA dossier). d) respiratory or skin sensitisation: Test: Skin Sensitization - Species: Guinea pig - Based on available data, the classification criteria are not met - Source: (ECHA dossier). e) germ cell mutagenicity: Test: In vitro - Negative - Source: (OCDE 471, ECHA dossier). Test: In vivo - Species: Mouse - Negative - Source: (OCDE 474, GLP, ECHA dossier). Paraffin oil - CAS: 8042-47-5 a) acute toxicity: Test: LC50 - Route: Inhalation - Species: Rat > 5 mg/l - Duration: 4h - Source: (OECD 403, ECHA dossier). Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Source: (similar or equvalent to OECD 402, ECHA dossier). Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: (similar or equivalent to OECD 401, ECHA dossier). i) aspiration hazard: Positive - Source: (MSDS supplier). Tetrasodium pyrophosphate - CAS: 7722-88-5 a) acute toxicity ATE - Oral 300 mg/kg bw Test: LD50 - Route: Oral - Species: Rat > 300 mg/kg - Source: (OECD 420, GLP, ECHA dossier). Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Source: (ECHA dossier). b) skin corrosion/irritation: Species: Rabbit - Based on available data, the classification criteria are not met -Source: (ECHA dossier). c) serious eye damage/irritation: Species: Rabbit - Eye Corrosive - Source: (ECHA dossier). d-carvone; (5S)-2-methyl-5-(prop-1-en-2-yl)cyclohex-2-en-1-one - CAS: 2244-16-8 a) acute toxicity: Test: LD50 - Route: Oral 3710 mg/kg - Source: (ECHA dossier). d) respiratory or skin sensitisation: Test: Skin Sensitization - Source: (OECD 429, ECHA dossier).

#### 11.2. Information on other hazards

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Endocrine disrupting properties: No endocrine disruptor substances present in concentration >= 0.1% **SECTION 12: Ecological information** 12.1. Toxicity Adopt good working practices, so that the product is not released into the environment. NEOCOLLOID The product is classified: Aquatic Chronic 3 - H412 Dipotassium exafluorotitanate - CAS: 16919-27-0 a) Aquatic acute toxicity: Endpoint: LC50 - Species: Fish 172 mg/l - Duration h: 96h (OECD 203, Danio rerio, ECHA dossier). Endpoint: EC50 - Species: Daphnia 48.2 mg/l - Duration h: 48h (OECD 203, Daphnia magna, ECHA dossier). Endpoint: IC50 - Species: Algae 10.81 mg/l - Duration h: 72h (OECD 201, Pseudokirchneriella subcapitata, ECHA dossier). Endpoint: NOEC - Species: Algae 1.31 mg/l (OECD 201, Pseudokirchneriella subcapitata, ECHA dossier). zinc oxide - CAS: 1314-13-2 a) Aquatic acute toxicity: Endpoint: IC50 - Species: Algae 0.17 mg/l - Duration h: 72h (Pseudokirchnerella subcapitata, MSDS supplier). Endpoint: LC50 - Species: Fish 320 mg/l - Duration h: 96h (Lepomis macrochirus, MSDS supplier). b) Aquatic chronic toxicity: Endpoint: NOEC - Species: Algae 0.017 mg/l (Pseudokirchnerella subcapitata, MSDS supplier). 12.2. Persistence and degradability Cristobalite - CAS: 14464-46-1 Biodegradability: Non-readily biodegradable Dipotassium exafluorotitanate - CAS: 16919-27-0 Biodegradability: Non-readily biodegradable zinc oxide - CAS: 1314-13-2 Biodegradability: Non-readily biodegradable Paraffin oil - CAS: 8042-47-5 **Biodegradability: Persistent and Biodegradable** 12.3. Bioaccumulative potential Cristobalite - CAS: 14464-46-1 Not bioaccumulative 12.4. Mobility in soil Not available 12.5. Results of PBT and vPvB assessment vPvB Substances: None - PBT Substances: None 12.6. Endocrine disrupting properties No endocrine disruptor substances present in concentration >= 0.1% 12.7. Other adverse effects None SECTION 13: Disposal considerations 13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

#### **SECTION 14: Transport information**

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14.1. UN number or ID number Not classified as dangerous in the	meaning of transport regulations.
14.2. UN proper shipping name Not available	
14.3. Transport hazard class(es)	
Not available	
14.4. Packing group	
Not available	
14.5. Environmental hazards	
ADR-Enviromental Pollutant: No	)
IMDG-Marine pollutant: No	)
14.6. Special precautions for user	
Not available	
14.7. Maritime transport in bulk accord	ling to IMO instruments
Not Applicable	-

#### SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work) Dir. 2000/39/EC (Occupational exposure limit values) Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP) Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013 Regulation (EU) n. 2020/878 Regulation (EU) n. 286/2011 (ATP 2 CLP) Regulation (EU) n. 618/2012 (ATP 3 CLP) Regulation (EU) n. 487/2013 (ATP 4 CLP) Regulation (EU) n. 944/2013 (ATP 5 CLP) Regulation (EU) n. 605/2014 (ATP 6 CLP) Regulation (EU) n. 2015/1221 (ATP 7 CLP) Regulation (EU) n. 2016/918 (ATP 8 CLP) Regulation (EU) n. 2016/1179 (ATP 9 CLP) Regulation (EU) n. 2017/776 (ATP 10 CLP) Regulation (EU) n. 2018/669 (ATP 11 CLP) Regulation (EU) n. 2018/1480 (ATP 13 CLP) Regulation (EU) n. 2019/521 (ATP 12 CLP) Regulation (EU) n. 2020/217 (ATP 14 CLP) Regulation (EU) n. 2020/1182 (ATP 15 CLP) Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: Restriction 3 Restriction 40 Restrictions related to the substances contained: Restriction 75

Provisions related to directive EU 2012/18 (Seveso III): Seveso III category according to Annex 1, part 1 None

WGK Classification (Water hazard class - Verwaltungsvorschrift wassergefährdende Stoffe)

Lagerklasse according to TRGS 510:

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LGK 10: Combustible liquids

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None.

California Proposition 65

Substance(s) listed under California Proposition 65: Cristobalite - Listed as carcinogen.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture. Substances for which a Chemical Safety Assessment has been carried out: Dipotassium exafluorotitanate zinc oxide Tetrasodium pyrophosphate

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

Hazard class and	Code	Description
hazard category		
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B
STOT RE 1	3.9/1	Specific target organ toxicity - repeated
		exposure, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated
		exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure	
STOT RE 2, H373	Calculation method	
Aquatic Chronic 3, H412	Calculation method	

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECHA – European Chemical Agency GESTIS - Information system on hazardous substances of the German Social Accident Insurance IARC – International Agency for Research on Cancer IPCS INCHEM – International Programme on Chemical Safety ISS – Istituto Superiore di Sanità PubChem - open chemistry database at the National Institutes of Health (NIH)

A safety data sheet is not required for this product under article 31 of Regulation 1907/2006/EC. This safety data sheet has been created on a voluntary basis.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

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It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of
ATE:	Dangerous Goods by Road. Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical
0/10.	Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS: GefStoffVO:	European Inventory of Existing Commercial Chemical Substances. Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of
бп3.	Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport
	Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization"
IMDG:	(ICAO). International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods
	by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.