

Revision nr. 4 Dated 11/05/2022

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

1.1. Product identifier

Mixture identification:

Product Name: NEOCOLLOID

Code: 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

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 through prolonged or repeated exposure. 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 through prolonged or repeated exposure.

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.

P314 Get medical advice/attention if you feel unwell.

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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

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

No 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.

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% -	Cristobalite	CAS:	14464-46-1	STOT RE 1 H372 Causes damage
< 8%		EC:	238-455-4	to organs (lungs) through
				prolonged or repeated exposure if
				inhaled.
>= 3% -	Dipotassium	CAS:	16919-27-0	Acute Tox. 4 H302 Harmful if
< 5%	exafluorotitanate	EC:	240-969-9	swallowed.
		REACH No.:	01-21199782	Eye Dam. 1 H318 Causes serious
			68-20-XXXX	eye damage.
>= 0,5%	zinc oxide	Index	030-013-00-7	Aquatic Acute 1 H400 Very toxic to
- < 2,5%		number:		aquatic life. M=1.
		CAS:	1314-13-2	Aquatic Chronic 1 H410 Very toxic
		EC:	215-222-5	to aquatic life with long lasting
		REACH No.:	01-21194638	effects. M=1.
			81-32-XXXX	
>= 0,5%	Paraffin oil	CAS:	8042-47-5	Asp. Tox. 1 H304 May be fatal if
- < 2,5%		EC:	232-455-8	swallowed and enters airways.
		REACH No.:	01-21194870	
			78-27-XXXX	
>= 0,5%	Tetrasodium	CAS:	7722-88-5	Acute Tox. 4 H302 Harmful if
- < 2,5%	pyrophosphate	EC:	231-767-1	swallowed.
		REACH No.:	01-21194897	Eye Dam. 1 H318 Causes serious
			94-17-XXXX	eye damage.
>= 0,1%	d-carvone;	Index	606-148-00-8	Skin Sens. 1B H317 May cause an
- < 0,3%	(5S)-2-methyl-5-(prop-	number:		allergic skin reaction.
	1-en-2-yl)cyclohex-2-e	CAS:	2244-16-8	
	n-1-one	EC:	218-827-2	
		REACH No.:	01-21207621	
			54-58-XXXX	



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 under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

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.

Remove persons to safety.

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

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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.

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	
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	STEL	Duratio	Notes	Country
		n		n		
VLA	2 mg/m3	8h	10 mg/m3	15min		SPAIN
MV	5 mg/m3	8h	20 mg/m3	15min	Respirable	SLOVENIA

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VME/VLE	3	8h	3	15min	Respirable	SWITZERLA
VIVIE/VEE	mg/m3	OII	mg/m3	1311111	respirable	ND ND
MAK	2	8h	4	15min	Inhalable	GERMANY
	mg/m3		mg/m3			
MAK	0.1	8h	0.4	15min	Respirable	GERMANY
	mg/m3		mg/m3			
MAK	3	8h	3	15min	Respirable	SWITZERLA
	mg/m3		mg/m3			ND
AK	5	8h	20	15min	Respirable	HUNGARY
	mg/m3		mg/m3			
GVI/KGVI	2	8h	10	15min	Respirable	CROATIA
	mg/m3		mg/m3			
HTP	2	8h	10	15min		FINLAND
	mg/m3		mg/m3			
MAK	5	8h			Respirable	AUSTRIA
	mg/m3					
NDS/NDSCh	5	8h	10	15min	Inhalable	POLAND
	mg/m3		mg/m3			
NGV/KGV	5	8h				SWEDEN
	mg/m3					
NPEL	1	8h	1	15min	Respirable	SLOVAKIA
	mg/m3		mg/m3			(Slovak
						Republic)
OELV	2	8h			Respirable	IRELAND
	mg/m3					
RD	5	8h				LITHUANIA
	mg/m3					
RV	0.5	8h				LATVIA
	mg/m3					
TLV	5	8h				ESTONIA
	mg/m3					
TLV	5	8h				NORWAY
	mg/m3					
TLV	5	8h	10	15min		ROMANIA
	mg/m3		mg/m3			
TLV	2	8h	5	15min		CZECH
T /	mg/m3		mg/m3			REPUBLIC
TLV	4	8h				DENMARK
	mg/m3		1.0			D. II O A D. A
TLV	5	8h	10	15min		BULGARIA
	mg/m3		mg/m3			005505
TLV	5	8h	10	15min		GREECE
\/ F D	mg/m3	01	mg/m3			EDANOE
VLEP	5	8h				FRANCE
\/ F D	mg/m3	01	10	45	Decision	DEL CULIA
VLEP	2	8h	10	15min	Respirable	BELGIUM
TIN/ ACCUL	mg/m3	01	mg/m3	45	(D) Martin	
TLV-ACGIH	2	8h	10	15min	(R) - Metal	
A C C II I	mg/m3	01	mg/m3		fume fever	
ACGIH	2	8h	10		(R) - Metal	
	mg/m3		mg/m3		fume fever	

Paraffin oil - CAS: 8042-47-5



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

Tetrasodium pyrophosphate - CAS: 7722-88-5

OEL Type	TWA	Duratio	STEL	Duratio	Notes	Country
7.		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 mg/m3	8h				UNITED 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

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

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:

Use respiratory protection where ventilation is insufficient or exposure is prolonged. Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered (e.g. TLV-TWA).

Thermal Hazards:

None

Environmental exposure controls:

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		

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Lower and upper explosion	Not available	
limit:		
Flash point:	Not available	
Auto-ignition temperature:	Not available	
Decomposition	Not available	
temperature:		
pH:	Not available	
Kinematic viscosity:	Not available	
Solubility in water:	Partially soluble	
Solubility in oil:	Not available	
Partition coefficient	Not available	
n-octanol/water (log value):		
Vapour pressure:	Not available	
Density and/or relative	0.2-0.5 g/cm3	
density:		
Relative vapour density:	Not available	
	Particle characteristics:	•
Particle size:	Not available	

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.

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

Does not meet the classification criteria for this hazard class (INTERNAL TEST Bridging Principle, OECD 437 resp. EU Method B.47, GLP, in vitro, study report 2014).

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 hazardNot 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).

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France).

In June 2003, SCOÉL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003).

There is a body of evidence supporting the fact that increased cancer risk would not be limited to people already suffering from silicosis. According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

Dipotassium exafluorotitanate - CAS: 16919-27-0

a) acute toxicity:

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:



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:

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

Endocrine disrupting properties:

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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

14.1. UN number

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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. 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

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:

LGK 10: Combustible liquids

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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 hazard category	Code	Description
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
Aguatic 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

Dangerous Goods by Road.

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

CAS: Chemical Abstracts Service (division of the American Chemical

Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of

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"

(ICAO).

IMDG: 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.

Changes from the previous revision.

Changes have been made to the following sections: 01/02/03/04/05/06/07/08/09/10/11/12/13/14/15/16.