Safety Data Sheet

According to Regulation (EC) No 1907/2006, Annex II

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT A)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Name: 2 KOMP TOP LEVEL+ (COMPONENT A)
Code: D100052

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

Relevant identified uses of the substance or mixture: Adhesive.
Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

Company:
MULTITASK INDUSTRIES
KARNEMELKSTRAAT 12
9060 ZELZATE / BELGIË
TEL : +32 (0)9 282 43 61
FAX : +32 (0)9 337 04 96
HOMEPAGE: www.multitaskindustries.be
EMAIL: info@multitaskindustries.be

Information department:
Technical information: info@multitaskindustries.be

1.4 Emergency telephone number:

Poison Control Centre (Brussels): +32 (0)70 245 245.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Acute toxicity, Category 4:	H332: Harmful if inhaled.
Eye irritation, Category 2:	H319: Causes serious eye irritation.
Skin sensibilisation, Category 1:	H317: May cause an allergic reaction.
STOT SE, Category 3:	H335: May cause respiratory irritation.

2.2 Label elements

Labelling according to Regulation (EC) 1272/2008 (CLP)
Hazard pictograms:

GHS07

Signal word: Warning.

Hazard statements:
H317 May cause an allergic reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Precautionary statements:
P261 Avoid breathing vapours or spray.
P280 Wear protective gloves/ eye protection/ face 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.
P312 Call a POISON CENTRE/doctor if you feel unwell.

Hazardous components which must be listed on the label:
Calcium oxide
Polyisocyanate, aliphatic

Additional Labelling:
EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards
This mixture does not contain any vPvB substance (vPvB= very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).
This mixture does not contain any PBT substance (PBT= persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).
This mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Not applicable.

3.2 Mixtures

Polyisocyanate, aliphatic	
Registration number (REACH)	01-2119485796-17-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	931-274-8
CAS	28182-81-2
% Content	70-90
Classification according to Regulation (EC) 1272/2008 (CLP), M-Factors	Acute Tox. 4, H332 Skin Sens. 1, H317 STOT SE 3, H335

Calcium oxide	**Substance for which an EU exposure limit value applies**
Registration number (REACH)	01-2119475325-36-XXXX

Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	215-138-9
CAS	1305-78-8
% Content	1-2
Classification according to Regulation (EC) 1272/2008 (CLP), M-Factors	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)	
Registration number (REACH)	01-2119489379-17-XXXX
Index	022-006-002
EINECS, ELINCS, NLP, REACH-IT List-No.	236-675-5
CAS	13463-67-7
% Content	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-Factors	Carc. 2, H351 (as inhalation)

Impurities, test data and additional information may have been taken into account in classifying and labelling the product. For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.
The substances named in this section are given with their actual, appropriate classification!
For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice: First aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person!
After inhalation: Supply person with fresh air and consult doctor according to symptoms.
After skin contact: Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.
After eye contact: Remove contact lenses. Wash thoroughly for several minutes using copious water. Seek medical help if necessary.
After ingestion: Rinse the mouth thoroughly with water. Give copious water to drink – consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in Section 11 and the absorption route in Section 4.1.
In certain cases, the symptoms of poisoning may only appear after an extended period/after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing media: Adapt to the nature and extent of fire. Water jet spray/foam/CO2/dry extinguisher.
Unsuitable extinguishing: None known.

5.2 Special hazards arising from the substance or mixture
In case of fire the following can develop: Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide. Toxic gases.

5.3 Advice for firefighters
For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire. Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
For non-emergency personnel: In case of spillage or accidental release, wear personal protective equipment as specified in Section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition. Avoid dust formation with solid or powder products. Leave the danger zone if possible, use existing emergency plans if necessary. Keep unprotected people away. Ensure sufficient supply of air. Avoid contact with eyes or skin. If applicable, caution – risk of slipping.
For emergency responders: See Section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions
If leakage occurs, dam up. Resolve leaks if this is possible without risk. Prevent form entering drainage system. Prevent surface and ground-water infiltration, as well as ground penetration. If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

6.4 Reference to other sections
For personal protective equipment see Section 8 and for disposal instructions see Section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
General recommendations: Ensure good ventilation. Avoid contact with eyes or skin. Eating, drinking, smoking as well as food-storage, is prohibited in workroom. Observe directions on label and instructions for use. Use working methods according to operating instructions.
Notes on general hygiene measures at the workplace: General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feeding stuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities
Keep out of access to unauthorized individuals. Not to be stored in gangways or stair wells. Store product closed and only in original packaging. Store at room temperature. Store in a dry place.

7.3 Specific end use(s)
No information available at present.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Calcium oxide	
WNG 8-hours:	1 mg/m³ (9) (WNG 8-hours, EU)
WNG 15-min.:	4 mg/m³ (9) (WNG 15-min., EU)

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)	
WNG 8-hours:	10 mg/m³ (BE-GW), 0,2 mg/m³ R (nanoscale particles), 2,5 mg/m³ R (fine-scale particles) (ACGIH-TWA)
Other information:	A3 (ACGIH)

Talc	
WNG 8-hours:	0,25 mg/m³ (respirable), 2 mg/m³ (BE-GW, ACGIH-TWA)
Other information:	A4 (ACGIH)

DNEL:

Polyisocyanate, aliphatic	
DNEL (Workers/employees)	
Long term – local effects, inhalation	0,5 mg/m³
Short term – local effects, inhalation	1 mg/m³

Calcium oxide	
DNEL (Consumer)	
Long term – local effects, inhalation	1 mg/m³
Short term – local effects, inhalation	4 mg/m³
DNEL (Workers/employees)	
Long term – local effects, inhalation	1 mg/m³
Short term – local effects, inhalation	4 mg/m³

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)	
DNEL (Consumer)	
Long term – systemic effects, oral	700 mg/kg bw/d
DNEL (Workers/employees)	
Long term – local effects, inhalation	10 mg/m³

PNEC:

Polyisocyanate, aliphatic

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT A)

PNEC (Water)	
PNEC aqua (freshwater)	0,127 mg/l
PNEC aqua (marine water)	0,0127 mg/l
PNEC aqua (water, sporadic (intermittent) release)	1,27 mg/l
PNEC (Sediment)	
PNEC Sediment (fresh water)	266700 mg/kg dry weight
PNEC Sediment (marine water)	26670 mg/kg dry weight
PNEC (Soil)	
PNEC Soil	53182 mg/kg dry weight
PNEC (STP)	
PNEC Sewage treatment plant	38,3 mg/l

Calcium oxide	
PNEC (Water)	
PNEC aqua (fresh water)	0,37 mg/l
PNEC aqua (marine water)	0,24 mg/l
PNEC (Soil)	
PNEC Soil	817,4 mg/kg dry weight
PNEC (STP)	
PNEC Sewage treatment plant	2,27 mg/l

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)	
PNEC (Water)	
PNEC aqua (fresh water)	0,184 mg/l
PNEC aqua (marine water)	0,0184 mg/l
PNEC aqua (water, sporadic (intermittent) release)	0,193 mg/l
PNEC (Sediment)	
PNEC Sediment (fresh water)	1000 mg/kg dry weight
PNEC Sediment (marine water)	100 mg/kg dry weight
PNEC (Soil)	
PNEC Soil	100 mg/kg dry weight
PNEC (STP)	
PNEC Sewage treatment plant	100 mg/l
PNEC (Oral)	
PNEC Oral (animal feed)	1667 mg/kg feed

WNG 8 hours = Statutory Dutch Limit Values – Time-weighted average over 8 hours (Working Conditions Decree, Annex XIII).
DE-AGW = German limit values, A = alveol fraction (or respirable fraction), E = inhalable fraction (TRGS 900).
BE-GW = Belgian limit values.
ACGIH-TWA = American Conference of Governmental Industrial Hygienist (ACGIH) limits, TWA (time weight average), time weighted average over 8 hours.
EU = European limit values (Directive 1991/322/EEC, 1998/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU and 2019/ 1831/EU).
(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/EC). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/EC). (11) = Inhalable fraction (Directive 2004/37/EC). (12) = Respirable fraction. Respirable fraction in the Member States which, on the date of entry into force of this Directive,

implement a biomonitoring system with a maximum biological limit value of 0.002 mg Cd/g creatinine in the urine (Directive 2004/37/EC).
WNG 15-min. = Statutory Dutch Limit Values – Time-weighted average over 15 minutes (Working Conditions Decree, Annex XIII).
DE-AGW = German limit values as an exceedance factor 1-8 and category I (substances where the local effect is decisive for the established limit value or substances that can have a sensitizing effect when inhaled) or category II (resorptive substances), A = alveol fraction (or respirable fraction), E = inhalable fraction (TRGS 900).
BE-GW = Belgian limit values.
ACGIH-STEL= American Conference of Governmental Industrial Hygienist (ACGIH) limit values, STEL (short term exposure limit), time weighted average over 15 min.
EU = European limit values (2000/39/EC, 2006/15/EC).
(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU).
(10) = Limit value for short-term exposure in relation to a reference period of 1 minute (2017/164/EU).
WNG-C = Statutory Dutch Limit Values – Ceiling (Working Conditions Decree, Annex XIII).
BE-GW = Belgian limit values.
ACGIH-C = American Conference of Governmental Industrial Hygienist (ACGIH) limits, C (ceiling value) is a ceiling value.
BGW = Biological limit values. ACGIH-BEI = American Conference of Governmental Industrial Hygienist (ACGIH), BEI (Biological Exposure Indices), Biological Limits.
Other information: NL/DE/ACGIH/EU: H = Substances that can be absorbed relatively easily through the skin.
NL: WNG = Statutory Dutch Limit Values (Working Conditions Decree, Annex XIII).
GGS-B4 = Limit values for substances harmful to health, Annex 4 (Dutch non-exhaustive list of substances toxic to reproduction): V1A, V1B or V2 = toxic to reproduction/harmful for reproduction (Fertility) and O1A, O1B or O2 toxic to reproduction/ harmful (Development). B = May be harmful through breastfeeding.
DE: Y = substances for which a risk of fetal damage is negligible if the stated German limit value is adhered to, Z = substances for which a risk of fetal damage cannot be excluded if the stated German limit value is observed.
BE: C = carcinogenic and/or mutagenic substances, D = Substances that can be absorbed relatively easily through the skin, F = Exposure occurs in the form of fibres.
ACGIH: A1 = Proven carcinogen, A2 = Suspected carcinogen, A3 = Animal carcinogen, unknown to humans, A4 = Not known as human carcinogen, A5 = Not suspected human carcinogen, SEN = hypersensitivity reaction in susceptible people can induce, even if exposed below the stated exposure limit (DSEN = skin sensitization, RSEN = respiratory sensitization), RTD = ototoxic chemical agent.
(13) = The substance may cause skin and respiratory sensitization (Directive 2004/37/EC),
(14) = The substance may cause skin sensitization (Directive 2004/37/EC).

8.2 Exposure controls

Appropriate engineering controls: Ensure good ventilation. This can be achieved by local solution or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here. Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques. These are specified by e.g. EN 14042. EN 14042 “Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents”.

Individual protection measures, such as personal protective equipment: General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feeding stuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles with side protection (EN 166).

Skin/hand protection: Chemical resistant protective gloves (EN ISO 374). If applicable: Protective gloves made of butyl (EN ISO 374). Protective Neoprene®/polychloroprene gloves (EN ISO 374). Protective nitrile

gloves (EN ISO 374). Protective PVC gloves (EN ISO 374). Minimum layer thickness in mm: 0,5. Permeation time (penetration time) in minutes: >= 480. The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

Additional information on hand protection: No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications. Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

Skin protection – Other measures: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: When the limit value is exceeded (WNG of DE-AGW of BE-GW). Filter A (EN 14387), code colour brown. Filter B (EN 14387), code colour grey. Filter P3 (EN 143), code colour white. Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable.

Environmental exposure controls: No information available at present.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Paste, liquid.
Colour:	White.
Odour:	Characteristic.
Melting point/freezing point:	No information available.
Boiling point/initial boiling point and boiling range:	No information available.
Flammability:	Combustible.
Lower explosion limit:	No information available.
Upper explosion limit:	No information available.
Flash point:	No information available.
Auto-ignition temperature:	No information available.
Decomposition temperature:	No information available.
pH:	No information available.
Kinematic viscosity:	55 Pas (Dynamic viscosity).
Solubility:	No information available.
Partition coefficient: n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	No information available.
Density and/or relative density:	1,21 (relative density).
Relative vapour density:	No information available.
Particle characteristics:	Does not apply to mixtures.

9.2 Other information

Explosives: Product is not explosive.

Oxidising liquids: No.

10. STABILITY AND REACTIVITY

10.1 Reactivity
The product has not been tested.

10.2 Chemical stability
Stable with proper storage and handling.

10.3 Possibility of hazardous reactions
No dangerous reactions known.

10.4 Conditions to avoid
None known.

10.5 Incompatible materials
Avoid contact with strong alkalis. Avoid contact with strong oxidizing agents. Avoid contact with strong acids.

10.6 Hazardous decomposition products
No decomposition when used as directed.

11. TOXICOLOGICAL INFORMATION

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

2 KOMP TOP LEVEL+ (COMPONENT A)				
Toxicity/effect	**Endpoint**	**Value**	**Unit**	**Notes**
Oral				No data available.
Dermal				No data available.
By inhalation	ATE	12,32	mg/l/4h	Calculated value, Dangerous vapours.
By inhalation	ATE	1,68	mg/l/4h	Calculated value, Aerosol.

Polyisocyanate, aliphatic						
Toxicity/effect	**Endpoint**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Oral	LD50	>2500	mg/kg	Rat	OECD 423 (Acute Oral Toxicity – Acute Toxic Class Method)	Female
Dermal	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
By inhalation	LC50	1,5	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Mist

Calcium oxide						
Toxicity/effect	**Endpoint**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Oral	LD50	>2000	mg/kg	Rat	OECD 425 (Acute Oral Toxicity – Up-and-Down procedure)	
Dermal	LD50	>2500	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Calcium dihydroxide, The results are applicable to calcium oxide,

						being in contact with moisture calcium hydroxide is formed.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)						
Toxicity/effect	**Endpoint**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Oral	LD50	>5000	mg/kg	Rat	OECD 425 (Acute Oral Toxicity – Up-and-Down Procedure)	
Dermal	LD50	>5000	mg/kg	Rabbit		
By inhalation	LC50	>6,8	mg/l/4h	Rat		

Talc						
Toxicity/effect	**Endpoint**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Oral	LD50	>5000	mg/kg	Rat		
Dermal	LD50	>2000	mg/kg	Rat		

Skin corrosion/-irritation:

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Polyisocyanate, aliphatic					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rabbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Slightly irritant.

Calcium oxide					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
				OECD 431 (In Vitro Skin Corrosion – Human Skin Model Test)	Non-caustic, Analogous conclusion, Calcium dihydroxide.
			Rabbit		Irritating, in vivo.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rabbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Not irritant.

Talc					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rabbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Not irritant.
					Not irritant.

Serious eye damage/irritation:

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT A)

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Polyisocyanate, aliphatic					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rabbit	OECD 405 (Acute Eye Irritation/ Corrosion)	Slightly irritant.

Calcium oxide					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rabbit		Risk of serious damage to eye., in vivo.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rabbit	OECD 405 (Acute Eye Irritation/ Corrosion)	Not irritant, Mechanical irritation possible.

Respiratory or skin sensitisation:

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Polyisocyanate, aliphatic					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Guinea pig	OECD 406 (Skin Sensitisation)	Yes (skin contact).

Calcium oxide
Notes
Not to be expected.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Mouse	OECD 429 (Skin Sensitisation – Local Lymph Node Assay)	Not sensitising.
			Guinea pig	OECD 406 (Skin Sensitisation)	No (skin contact).

Talc
Notes
Not sensitising.

Germ cell mutagenicity:

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Polyisocyanate, aliphatic

2 KOMP TOP LEVEL+ (COMPONENT A)

Endpoint	Value	Unit	Organism	Test method	Notes
				OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative.

Calcium oxide					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
				OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion, Calcium dihydroxide.
				OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative, Analogous conclusion, Calcium dihydroxide.
				OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative, Analogous conclusion, Calcium dihydroxide.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative.
			Mammalian	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative.
			Salmonella typhimurium	(Ames-Test)	Negative.
				OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative.
				OECD 471 (Bacterial Reverse Mutation Test)	Negative.

Talc					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
				OECD 471 (Bacterial Reverse Mutation Test)	Negative.

Carcinogenicity:

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Calcium oxide					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rat		Negative, Analogous conclusion, Administered as Ca-lactate.

Talc
Notes
Negative.

Reproductive toxicity:

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Polyisocyanate, aliphatic
Notes
Negative.

Calcium oxide					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Mouse		Negative, Analogous conclusion, Administered as Ca-carbonate.

Talc					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rat		Negative.

Reproductive toxicity (Developmental toxicity):

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)					
Endpoint	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rat	OECD 414 (Prenatal Developmental Toxicity Study)	No indications of such an effect.

Specific target organ toxicity – single exposure (STOT-SE):

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Polyisocyanate, aliphatic						
Toxicity/effect	**Endpoint**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
By inhalation						Irritation of the respiratory tract.

Calcium oxide
Notes
Irritation of the respiratory tract.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)
Notes
Not irritant (respiratory tract).

Specific target organ toxicity - repeated exposure (STOT-RE):

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Polyisocyanate, aliphatic

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT A)

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
By inhalation	NOEL	4,3	mg/m³	Rat	OECD 412 (Subacute Inhalation Toxicity – 28-Day Study)	
By inhalation	NOAEL	3,3	mg/m³	Rat	OECD 413 (Subchronic Inhalation Toxicity – 90-Day Study)	Aerosol.

Calcium oxide						
Toxicity/effect	**Endpoint**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Oral		36	mg/kg bw/d			(UL by SCF)
Dermal						Negative.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)						
Toxicity/effect	**Endpoint**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Oral	NOAEL	3500	mg/kg/d	Rat		(90d)
By inhalation	NOAEC	10	mg/m³	Rat		(90d)

Aspiration hazard:

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Calcium oxide
Notes
No.

Symptoms:

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Calcium oxide
Notes
Breathing difficulties, respiratory distress, drowsiness, diarrhoea, thirst, vomiting, cornea opacity, coughing, headaches, mucous, membrane, irritation, shock, sweating.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)
Notes
Mucous membrane irritation, coughing, respiratory distress, drying of the skin.

Talc
Notes
Mucous membrane irritation.

11.2 Information on other hazards

Endocrine disrupting properties: Does not apply to mixtures
Other information: No other relevant information available on adverse effects on health.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish:

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Polyisocyanate, aliphatic						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
LC50	96h	>100	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	

Calcium oxide						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
LC50	96h	50,6	mg/l			Freshwater, Calcium dihydroxide, The results are applicable to calcium oxide, while in contact with moisture calcium hydroxide is formed.
LC50	96h	457	mg/l			Marine water, Calcium dihydroxide, The results are applicable to calcium oxide, while in contact with moisture calcium hydroxide is formed.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
LC50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	

Talc						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
LC50	96h	100	g/l	Brachydanio rerio		

Toxicity to daphnia:

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Polyisocyanate, aliphatic						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
EC10	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	

Calcium oxide

2 KOMP TOP LEVEL+ (COMPONENT A)

Endpoint	Time	Value	Unit	Organism	Test method	Notes
EC50	48h	49,1	mg/l			Freshwater, Calcium dihydroxide, The results are applicable to calcium oxide, while in contact with moisture calcium hydroxide is formed.
LC50	96h	158	mg/l			Marine water, Calcium dihydroxide, The results are applicable to calcium oxide, while in contact with moisture calcium hydroxide is formed.
NOEC/ NOEL	14d	32	mg/l			Marine water, Calcium dihydroxide, The results are applicable to calcium oxide, while in contact with moisture calcium hydroxide is formed.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
LC50	48h	>100	mg/l	Daphnia Magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	

Toxicity to algae:

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Polyisocyanate, aliphatic						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
ErC50	72h	>1000	mg/l	Scenedesmus subspicatus	DIN 38412 T.9	
IC50	72h	>100	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	

Calcium oxide						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
NOEC/NOEL	72h	48	mg/l			Freshwater, Calcium dihydroxide, The results are applicable to calcium oxide, while in contact with moisture calcium hydroxide is formed.
EC50	72h	184,57	mg/l			Freshwater, Calcium dihydroxide, The results are applicable to calcium oxide, while in contact with moisture calcium hydroxide is formed.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
EC50	72h	16	mg/l	Pseudokirchneriella subcapitata	U.S. EPA-600/9-78-018	

Toxicity to bacteria:

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT A)

Polyisocyanate, aliphatic						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
EC50	72h	3828	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Calcium oxide
Notes
In high concentrations the product provokes an increase in temperature and of the pH-value. It is used to sanitize sewage sludge.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
		>5000	mg/l	Escherichia coli		
LC0	24h	>10000	mg/l	Pseudomonas fluorescens		

Toxicity to annelids:

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
NOEC/NOEL		>1000	mg/kg	Eisenia foetida		

Toxicity to other organisms:

Calcium oxide						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
NOEC/NOEL		2000	mg/kg dw			Calcium dihydroxide, The results are applicable to calcium oxide, while in contact with moisture calcium hydroxide is formed. Soil Macroorganisms.
NOEC/NOEL		12000	mg/kg dw			Calcium dihydroxide, The results are applicable to calcium oxide, while in contact with moisture calcium hydroxide is formed. Soil Macroorganisms.
NOEC/NOEL	21d	1080	mg/kg			Calcium dihydroxide, The results are applicable to calcium oxide, while in contact with moisture calcium hydroxide is formed. Terrestrial plants.

12.2 Persistence and degradability

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT A)

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Polyisocyanate, aliphatic						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
	28d	0	%		OECD 301 C (Ready Biodegradability – Modified MITI Test (I))	Not readily biodegradable.
	28d	1	%		OECD 301 D (Ready Biodegradability – Closed Bottle Test)	Not readily biodegradable.

Calcium oxide
Notes
Not relevant for inorganic substances.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)
Notes
Not relevant for inorganic substances.

Talc
Notes
Not relevant for inorganic substances.

12.3 Bioaccumulative potential

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Polyisocyanate, aliphatic						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
BCF		367,7				
Log Kow		3,2				Concentration in organisms possible., calculated value.

Calcium oxide
Notes
Not relevant for inorganic substances.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
BCF	42d	9,6				Not to be expected.
BCF	14d	19-352				Oncorhynchus mykiss

12.4 Mobility in soil

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT A)

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Polyisocyanate, aliphatic						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
H (Henry)		<0,000001	Pa*m³/mol			25°C
Log Koc		7,3-7,8				

Calcium oxide
Notes
Calcium oxide reacts with water and/or carbon dioxide to form respectively calcium dihydroxide and/or calcium carbonate, which are sparingly, and so present a low mobility in most ground.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)
Notes
Negative.

12.5 Results of PBT and vPvB assessment

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
No data available.

Polyisocyanate, aliphatic
Notes
No PBT substance, no vPvB substance.

Calcium oxide
Notes
Not relevant for inorganic substances.

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)
Notes
No PBT substance, no vPvB substance.

Talc
Notes
No PBT substance, no vPvB substance.

12.6 Endocrine disrupting properties

2 KOMP TOP LEVEL+ (COMPONENT A)
Notes
Does not apply to mixtures.

12.7 Other adverse effects

2 KOMP TOP LEVEL+ (COMPONENT A)

Notes
No information available on other adverse effects on the environment.

Calcium oxide
Notes
pH-value of >12 will rapidly decrease as a result of dilution and carbonation., Even though this product can be used to neutralize over-acidified water, when 1 g/l is exceeded organisms in the water may be affected adversely.

Other information:

Water solubility:

Titanium dioxide (in powder form containing 1% or more of particles with aerodynamic diameter <=10 µm)
Notes
Insoluble 20°C

Talc						
Endpoint	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
		<0,1	%			

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

For the substance/mixture/residual amounts:

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances.

Recommendation:

Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. suitable incineration plant. E.g. dispose at suitable refuse site.

For contaminated packing material: Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance.

14. TRANSPORT INFORMATION

14.1 UN number or ID number

ADR/RID: Not applicable.
IMDG: Not applicable.
IATA: Not applicable.

14.2 UN proper shipping name

ADR/RID: Not applicable.

IMDG: Not applicable.
IATA: Not applicable.

14.3 Transport hazard class(es)
ADR/RID: Not applicable.
IMDG: Not applicable.
IATA: Not applicable.

14.4 Packing group
ADR/RID: Not applicable.
IMDG: Not applicable.
IATA: Not applicable.

14.5 Environmental hazards
ADR/RID: Not applicable.
Tunnel restriction code: Not applicable.
Classification code: Not applicable.
LQ: Not applicable.
Transport category: Not applicable.
IMDG: Not applicable.
Marine Pollutant: Not applicable.
EmS: Not applicable.
IATA: Not applicable.

14.6 Special precautions for user
Unless specified otherwise, general measures for safe transport must be followed.

14.7 Maritime transport in bulk according to IMO instruments
Non-dangerous material according to Transport Regulations.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
Observe restrictions:
Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!
Regulation (EC) No 1907/2006, Annex XVII
Polyisocyanate, aliphatic
Comply with trade association/occupational health regulations.
Directive 2010/75/EU (VOC): 0%
Water hazard category according to the General Assessment Method (ABM) 2016: B(4)
Compliance with the Working Conditions Decree (in particular Articles 4.105 and 4.106 – Young employees) (Netherlands).

15.2 Chemical safety assessment
A chemical safety assessment is not provided for mixtures.

16. OTHER INFORMATION

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EC) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No 1272/2008 (CLP)	Evaluation method used
Acute Tox. 4, H332	Classification according to calculation procedure.
Eye Irrit. 2, H319	Classification according to calculation procedure.
STOT SE 3, H335	Classification according to calculation procedure.
Skin Sens. 1, H317	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3):

H315 Causes skin irritation.
H317 May cause an allergic reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer by inhalation.

Acute Tox.: Acute toxicity – Inhalation.
Eye Irrit.: Eye irritation.
STOT SE: Specific target organ toxicity – single exposure – respiratory tract irritation.
Skin Sens.: Skin sensitization.
Skin Irrit.: Skin irritation.
Eye Dam.: Serious eye damage.
Carc.: Carcinogenicity.

Important literature references and data sources: Regulation (EC) No. 1907/2006 (REACH) and Regulation (EC) No. 1272/2008 (CLP) in the then valid version. Guidelines for drawing up safety data sheets in the currently valid version (ECHA).
Guidance on labeling and packaging in accordance with Regulation (EC) No 1272/2008 [CLP] in the currently valid version (ECHA).
Safety data sheets of the ingredients.
ECHA homepage – information on chemicals.
GESTIS substance database (Germany).
Federal Environmental Agency “Rigoletto” Information page on water pollutants (Germany).
EU occupational exposure limit values directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831 in the then valid version.
National lists of occupational exposure limit values of the respective countries in the currently valid version.
Regulations for the transport of dangerous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) in the then valid version.

Abbreviations and acronyms:
ABM: Water hazard category according to the General Assessment Method.
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (=European

Agreement concerning the International Carriage of Dangerous Goods by Road).
AOX: Absorbable organic halogen compounds.
ASTM: American Society for Testing and Materials.
ATE: Acute Toxicity Estimate.
BAM: Bundesanstalt für Marielforschung und -prüfung (Office Fédéral de Contrôle des Matériaux, Allemagne).
BAuA: Bundesanstalt für Arbeitsschutz and Arbeitsmedizin (= Bureau fédéral allemand de la protection et de la médecine du travail, Allemagne).
BCF: Bioconcentration factor.
BSEF: The International Bromine Council.
Bw: body weight.
CAS: Chemical Abstracts Service.
CLP: Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures).
CMR: carcinogenic, mutagenic, reproductive toxic.
DEFR: Département fédéral de l'économie, de la formation et de la recherche (Suisse).
DETEC: Département fédéral de l'environnement, des transports, de l'énergie et de la communication (Suisse).
DMEL: Derived Minimum Effect Level.
DNEL: Derived No Effect Level.
DOC: Dissolved organic carbon.
Dw: dry weight.
EC: European Community.
EEC: European Economic Community.
ECHA: European Chemicals Agency.
EINECS: European Inventory of Existing Commercial Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European norms.
EPA: United States Environmental Protection Agency (United States of America).
EVAL: Copolymère d'éthylène-alcool vinylique.
EU: European Union.
GHS: Globally Harmonised System of Classification and Labelling Chemicals.
GWP: Global warming potential.
IARC: International Agency for Research on Cancer.
IATA: International Air Transport Association.
IBC (Code): International Bulk Chemical (Code).
IMDG-code: International Maritime Code for Dangerous Goods.
ISO: International Organization for Standardization.
IUCLID: International Uniform Chemical Information Database.
IUPAC: International Union for Pure Applied Chemistry.
LC50: Lethal Concentration to 50% of a test population.
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
LMD: Les listes pour les mouvements de déchets (Suisse).
Log Pow: Logarithm of octanol-water partition coefficient.
LQ: Limited Quantities.
NIOSH: National Institute for Occupational Safety and Health (USA).
NLP: No-longer-Polymer.
NOEC, NOEL: No observed Effect Concentration/Level.
OECD: Organisation for Economic Co-operation and Development.
OFEV: Office fédéral de l'environnement (Suisse).
OMoD: Ordonnance sur les mouvements de déchets (Suisse).
Org.: Organic.
OSHA: Occupational Safety and Health Administration (USA).

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT A)

OTD: Ordonnance sur le traitement des déchets (Suisse).
PBT: Persistent, bioaccumulative and toxic.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals).
REACH-IT List-No.: 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID: Règlement concernant le transport International ferroviaire de marchandises Dangereuses (=Regulation concerning the International Carriage of Dangerous Goods by Rail).
SVHC: Substances of Very High Concern.
UN RTDG: United Nations Recommendations on the Transport of Dangerous Goods.
VOC: Volatile Organic Compounds.
vPvB: very Persistent and very Bioaccumulative.
wwt: wet weight.

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT B)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 Product identifier
Product name: 2 KOMP TOP LEVEL+ (COMPONENT B)
Code: D100052

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses of the substance or mixture: Adhesive.
Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet
Company:
MULTITASK INDUSTRIES
KARNEMELKSTRAAT 12
9060 ZELZATE / BELGIË
TEL : +32 (0)9 282 43 61
FAX : +32 (0)9 337 04 96
HOMEPAGE: www.multitaskindustries.be
EMAIL: info@multitaskindustries.be

Information department:
Technical information: info@multitaskindustries.be

1.4 Emergency telephone number:
Poison Control Centre (Brussels): +32 (0)70 245 245.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) 1272/2008 (CLP)
Eye irritation, Category 2: H319: Causes serious eye irritation.

2.2 Label elements
Labelling according to Regulation (EC) 1272/2008 (CLP)
Hazard pictograms:

GHS07

Signal word: Warning.

Hazard Statements:
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.

Precautionary statements:
P280 Wear eye protection/face 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.
P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards
This mixture does not contain any vPvB substance (vPvB= very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).
This mixture does not contain any PBT substance (PBT= persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).
This mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Not applicable.

3.2 Mixtures

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	
Registration number (REACH)	01-2119552434-41-XXXX
Index	---
EINECS, ELINCS, NLP, REACH-IT List-No.	203-041-4
CAS	102-60-3
% Content	10-<25
Classification according to Regulation (EC) 1272/2008 (CLP), M-Factors	Eye Irrit. 2, H319

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.
The substances named in this section are given with their actual, appropriate classification!
For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

4. FIRST AID MEASURES

4.1 Description of first aid measures
General advice: First aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person!
After inhalation: Supply person with fresh air and consult doctor according to symptoms.
After skin contact: Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.
After eye contact: Remove contact lenses. Wash thoroughly for several minutes using copious water. Seek medical help if necessary.
After ingestion: Rinse the mouth thoroughly with water. Give copious water to drink – consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed
If applicable delayed symptoms and effects can be found in Section 11 and the absorption route in Section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period/after several hours.

4.3 Indication of any immediate medical attention and special treatment needed
Symptomatic treatment.

5. FIREFIGHTING MEASURES
5.1 Extinguishing media
Suitable extinguishing media: Adapt to the nature and extent of fire. Water jet spray/foam/CO2/dry extinguisher.
Unsuitable extinguishing: None known.

5.2 Special hazards arising from the substance or mixture
In case of fire the following can develop: Oxides of carbon. Toxic gases.

5.3 Advice for firefighters
For personal protective equipment see Section 8. In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire. Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
For non-emergency personnel: In case of spillage or accidental release, wear personal protective equipment as specified in Section 8 to prevent contamination. Ensure sufficient ventilation, remove sources of ignition. Avoid dust formation with solid or powder products. Leave the danger zone if possible, use existing emergency plans if necessary. Keep unprotected people away. Ensure sufficient supply of air. Avoid contact with eyes or skin. If applicable, caution – risk of slipping.
For emergency responders: See Section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions
If leakage occurs, dam up. Resolve leaks if this is possible without risk. Prevent form entering drainage system. Prevent surface and ground-water infiltration, as well as ground penetration. If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

6.4 Reference to other sections
For personal protective equipment see Section 8 and for disposal instructions see Section 13.

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT B)

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

General recommendations: Ensure good ventilation. Avoid contact with eyes or skin. Eating, drinking, smoking as well as food-storage, is prohibited in workroom. Observe directions on label and instructions for use. Use working methods according to operating instructions.

Notes on general hygiene measures at the workplace: General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feeding stuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorized individuals. Not to be stored in gangways or stair wells. Store product closed and only in original packaging. Store at room temperature. Store in a dry place.

7.3 Specific end use(s)

No information available at present.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Silicon dioxide - amorphous	
WNG 8-hours:	4 mg/m³ E (DE-GW)
Other information:	Y

Carbon black	
WNG 8-hours:	3,0 mg/m³ (BE-GW), 3,5 mg/m³ (USA-ACGIH)
Other information:	A4 (USA-ACGIH)

Talc	
WNG 8-hours:	0,25 mg/m³ (respirable), 2 mg/m³ (BE-GW, ACGIH-TWA)
Other information:	A4 (ACGIH)

DNEL:

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	
DNEL (Consumer)	
Long term– systemic effects, inhalation	8,7 mg/m³
Long term – systemic effects, dermal	2,5 mg/kg bw/d
Long term – systemic effects, oral	2,5 mg/kg bw/d
DNEL (Workers/employees)	
Long term– systemic effects, inhalation	29,4 mg/m³
Long term – systemic effects, dermal	4,2 mg/kg bw/d

Carbon black	
DNEL (Consumer)	
Long term– systemic effects, inhalation	0,06 mg/m³

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT B)

DNEL (Workers/employees)	
Long term– systemic effects, inhalation	1 mg/m³

Zeolites	
DNEL (Consumer)	
Long term – systemic effects, dermal	1,25 mg/kg bw/d
Long term – systemic effects, oral	1,25 mg/kg bw/d
DNEL (Workers/employees)	
Long term – systemic effects, dermal	2,5 mg/kg bw/d
Long term – local effects, inhalation	3 mg/m³

Silicon dioxide - amorphous	
DNEL (Workers/employees)	
Long term– systemic effects, inhalation	4 mg/m³

PNEC:

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol	
PNEC (Water)	
PNEC aqua (freshwater)	0,085 mg/l
PNEC aqua (marine water)	0,0085 mg/l
PNEC aqua (water, sporadic (intermittent) release)	1,51 mg/l
PNEC (Sediment)	
PNEC Sediment (freshwater)	0,193 mg/kg dry weight
PNEC Sediment (marine water)	0,0193 mg/kg dry weight
PNEC (Soil)	
PNEC Soil	0,018 mg/kg dry weight
PNEC (STP)	
PNEC Sewage Treatment Plant	70 mg/l

Carbon black	
PNEC (Water)	
PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	0,1 mg/l

Zeolites	
PNEC (Water)	
PNEC aqua (freshwater)	3,2 mg/l
PNEC aqua (marine water)	0,32 mg/l
PNEC (Soil)	
PNEC Soil	600 mg/kg dry weight
PNEC (STP)	
PNEC Sewage Treatment Plant	95 mg/l

WNG 8 hours = Statutory Dutch Limit Values – Time-weighted average over 8 hours (Working Conditions Decree, Annex XIII).
DE-AGW = German limit values, A = alveol fraction (or respirable fraction), E = inhalable fraction (TRGS 900).
BE-GW = Belgian limit values.
ACGIH-TWA = American Conference of Governmental Industrial Hygienist (ACGIH) limits, TWA (time weight average), time weighted average over 8 hours.

EU = European limit values (Directive 1991/322/EEC, 1998/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU and 2019/ 1831/EU).
(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/EC). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/EC). (11) = Inhalable fraction (Directive 2004/37/EC). (12) = Respirable fraction. Respirable fraction in the Member States which, on the date of entry into force of this Directive, implement a biomonitoring system with a maximum biological limit value of 0.002 mg Cd/g creatinine in the urine (Directive 2004/37/EC).
WNG 15-min. = Statutory Dutch Limit Values – Time-weighted average over 15 minutes (Working Conditions Decree, Annex XIII).
DE-AGW = German limit values as an exceedance factor 1-8 and category I (substances where the local effect is decisive for the established limit value or substances that can have a sensitizing effect when inhaled) or category II (resorptive substances), A = alveol fraction (or respirable fraction), E = inhalable fraction (TRGS 900).
BE-GW = Belgian limit values.
ACGIH-STEL= American Conference of Governmental Industrial Hygienist (ACGIH) limit values, STEL (short term exposure limit), time weighted average over 15 min.
EU = European limit values (2000/39/EC, 2006/15/EC).
(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU).
(10) = Limit value for short-term exposure in relation to a reference period of 1 minute (2017/164/EU).
WNG-C = Statutory Dutch Limit Values – Ceiling (Working Conditions Decree, Annex XIII).
BE-GW = Belgian limit values.
ACGIH-C = American Conference of Governmental Industrial Hygienist (ACGIH) limits, C (ceiling value) is a ceiling value.
BGW = Biological limit values. ACGIH-BEI = American Conference of Governmental Industrial Hygienist (ACGIH), BEI (Biological Exposure Indices), Biological Limits.
Other information: NL/DE/ACGIH/EU: H = Substances that can be absorbed relatively easily through the skin.
NL: WNG = Statutory Dutch Limit Values (Working Conditions Decree, Annex XIII).
GGS-B4 = Limit values for substances harmful to health, Annex 4 (Dutch non-exhaustive list of substances toxic to reproduction): V1A, V1B or V2 = toxic to reproduction/harmful for reproduction (Fertility) and O1A, O1B or O2 toxic to reproduction/ harmful (Development). B = May be harmful through breastfeeding.
DE: Y = substances for which a risk of fetal damage is negligible if the stated German limit value is adhered to, Z = substances for which a risk of fetal damage cannot be excluded if the stated German limit value is observed.
BE: C = carcinogenic and/or mutagenic substances, D = Substances that can be absorbed relatively easily through the skin, F = Exposure occurs in the form of fibres.
ACGIH: A1 = Proven carcinogen, A2 = Suspected carcinogen, A3 = Animal carcinogen, unknown to humans, A4 = Not known as human carcinogen, A5 = Not suspected human carcinogen, SEN = hypersensitivity reaction in susceptible people can induce, even if exposed below the stated exposure limit (DSEN = skin sensitization, RSEN = respiratory sensitization), RTD = ototoxic chemical agent.
(13) = The substance may cause skin and respiratory sensitization (Directive 2004/37/EC),
(14) = The substance may cause skin sensitization (Directive 2004/37/EC).

8.2 Exposure controls

Appropriate engineering controls: Ensure good ventilation. This can be achieved by local solution or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here. Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques. These are specified by e.g. EN 14042. EN 14042 “Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents”.

Individual protection measures, such as personal protective equipment: General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feeding stuffs. Remove contaminated clothing and protective equipment before entering

areas in which food is consumed.
Eye/face protection: Tight fitting protective goggles with side protection (EN 166).
Skin/hand protection: Chemical resistant protective gloves (EN ISO 374). If applicable: Protective gloves made of butyl (EN ISO 374). Protective Neoprene®/polychloroprene gloves (EN ISO 374). Protective nitrile gloves (EN ISO 374). Protective PVC gloves (EN ISO 374). Minimum layer thickness in mm: 0,5. Permeation time (penetration time) in minutes: >= 480. The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.
Additional information on hand protection: No tests have been performed. In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications. Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.
Skin protection – Other measures: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).
Respiratory protection: Normally not necessary.
Thermal hazards: Not applicable.
Environmental exposure controls: No information available at present.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Paste, liquid.
Colour:	Black.
Odour:	Characteristic.
Melting point/freezing point:	No information available.
Boiling point/initial boiling point and boiling range:	No information available.
Flammability:	No information available.
Lower explosion limit:	No information available.
Upper explosion limit:	No information available.
Flash point:	No information available.
Auto-ignition temperature:	No information available.
Decomposition temperature:	No information available.
pH:	No information available.
Kinematic viscosity:	60 Pas (Dynamic viscosity).
Solubility:	No information available.
Partition coefficient: n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	No information available.
Density and/or relative density:	1,29 (relative density).
Relative vapour density:	No information available.
Particle characteristics:	Does not apply to mixtures.

9.2 Other information
Explosives: Product is not explosive.
Oxidising liquids: No.

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT B)

10. STABILITY AND REACTIVITY

10.1 Reactivity
The product has not been tested.

10.2 Chemical stability
Stable with proper storage and handling.

10.3 Possibility of hazardous reactions
No dangerous reactions known.

10.4 Conditions to avoid
None known.

10.5 Incompatible materials
Avoid contact with strong alkalis. Avoid contact with strong oxidizing agents. Avoid contact with strong acids.

10.6 Hazardous decomposition products
No decomposition when used as directed.

11. TOXICOLOGICAL INFORMATION

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

2 KOMP TOP LEVEL+ (COMPONENT B)	
Toxicity/effect	**Notes**
Oral	No data available.
Dermal	No data available.
By inhalation	No data available.

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol						
Toxicity/effect	**End point**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Oral	LD50	>2000-5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Dermal	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	

Talc						
Toxicity/effect	**End point**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Oral	LD50	>5000	mg/kg	Rat		
Dermal	LD50	>2000	mg/kg	Rat		

Carbon black						
Toxicity/effect	**End point**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Oral	LD50	>2000	mg/kg	Rat		
Dermal	LD50	>3000	mg/kg			

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT B)

Silicon dioxide - amorphous						
Toxicity/effect	**End point**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Oral	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Dermal	LD50	>5000	mg/kg	Rabbit	IUCLID Chem. Data Sheet (ESIS)	

Skin corrosion/irritation:

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rabbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Not irritant.

Talc					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rabbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Not irritant.
					Not irritant.

Carbon black					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rabbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Not irritant.

Silicon dioxide - amorphous					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rabbit	OECD 404 (Acute Dermal Irritation/ Corrosion)	Not irritant.

Serious eye damage/irritation:

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2

Carbon black					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rabbit	OECD 405 (Acute Eye Irritation/ Corrosion)	Not irritant.

Silicon dioxide - amorphous					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rabbit	OECD 405 (Acute Eye Irritation/ Corrosion)	Not irritant.

Respiratory or skin sensitisation:

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

2 KOMP TOP LEVEL+ (COMPONENT B)

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitising.

Talc
Notes
Not sensitising.

Carbon black					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitising.

Silicon dioxide - amorphous					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Guinea pig	IUCLID Chem. Data Sheet (ESIS)	Not sensitising.

Germ cell mutagenicity:

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

Talc					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
				OECD 471 (Bacterial Reverse Mutation Test)	Negative.

Carbon black					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
				OECD 471 (Bacterial Reverse Mutation Test)	Negative.

Silicon dioxide - amorphous					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Salmonella typhimurium	(Ames-Test)	Negative.

Carcinogenicity:

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

Talc
Notes
Negative.

Carbon black					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Mouse		Negative.

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT B)

Silicon dioxide - amorphous
Notes
Negative.

Reproductive toxicity:

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
				OECD 421 (Reproduction/ Developmental Toxicity Screening Test)	Negative.
				OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/ Developm. Tox. Screening Test)	Negative.

Talc					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
			Rat		Negative.

Silicon dioxide - amorphous					
End point	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
NOAEL	>497	mg/kg bw/d			No indications of such an effect.

Specific target organ toxicity – single exposure (STOT-SE):

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

Specific target organ toxicity – repeated exposure(STOT-RE):

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

Carbon black						
Toxicity/effect	**End point**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Oral	NOAEL	137	mg/kg	Mouse		
Oral	NOAEL	52	mg/kg	Rat		
	NOEL	0,0011	mg/l			References, Target organ(s): lung (90d)

Silicon dioxide - amorphous						
Toxicity/effect	**End point**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
By inhalation	NOAEL	0,035	mg/l			Negative.

Aspiration hazard:

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

Carbon black
Notes
No.

Silicon dioxide - amorphous
Notes
No.

Symptoms:

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

Talc
Notes
Mucous membrane irritation.

11.2 Information on other hazards

Endocrine disrupting properties: Does not apply to mixtures.
Other information: No other relevant information available on adverse effects on health.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish:

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
LC50	48h	>100	mg/l	Leuciscus idus	DIN 38412 T.15	Analogous conclusion.

Talc						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
LC50	96h	100	g/l	Brachydanio rerio		

Carbon black						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
LC50	96h	>1000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT B)

Silicon dioxide - amorphous						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
LC50	96h	>10000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	

Toxicity to daphnia:

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
NOEC/NOEL	21d	>=10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	Analogous conclusion.
EC50	48h	>100	mg/l	Daphnia magna	92/69/EC	Analogous conclusion.

Carbon black						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
EC50	24h	>5600	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	

Silicon dioxide - amorphous						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
EC50	24h	>1000	mg/l	Daphnia Magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
NOEC/NOEL	30d	34223	mg/l	Daphnia Magna		

Toxicity to algae:

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
EC50	72h	>100	mg/l	Desmodesmus subspicatus	84/449/EEC C.3	Analogous conclusion.

Carbon black						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
NOEC/NOEL	3d	10000	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	

Silicon dioxide - amorphous						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
IC50	72h	440	mg/l	Pseudokirchneriella subcapitata	IUCLID Chem. Data Sheet (ESIS)	
NOEC/NOEL	72h	60	mg/l	Pseudokirchneriella subcapitata	IUCLID Chem. Data Sheet (ESIS)	
EC50	72h	>10000	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth	

					Inhibition Test)	

Toxicity to bacteria:

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
NOEC/NOEL	3h	700	mg/l	activated sludge	ISO 8192	
EC20	30min	1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Carbon black						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
EC0	3h	>=800	mg/l	activated sludge	Regulation (EC) 440/2008 C.22 (SOIL MICROORGANISMS – CARBON TRANSFORMATION TEST)	

12.2 Persistence and degradability

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
BOD	28d	9	%		OECD 301 E (Ready Biodegradability – Modified OECD Screening test)	Hardly biodegradable.

Talc
Notes
Not relevant for inorganic substances.

Carbon black
Notes
Not biodegradable.

Silicon dioxide – amorphous
Notes
Not relevant for inorganic substances.

12.3 Bioaccumulative potential

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Log Pow		-2,08				

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT B)

Carbon black
Notes
Not to be expected.

12.4 Mobility in soil

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

12.5 Results of PBT and vPvB assessment

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No data available.

Talc
Notes
No PBT substance, No vPvB substance.

Silicon dioxide – amorphous
Notes
No PBT substance, No vPvB substance.

12.6 Endocrine disrupting properties

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
Does not apply to mixtures.

12.7 Other adverse effects

2 KOMP TOP LEVEL+ (COMPONENT B)
Notes
No information available on other adverse effects on the environment.

Other information:

1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
COD		2040	mg/g			

Water solubility:

Talc						
End point	**Time**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
		<0,1	%			

Carbon black
Notes
Insoluble, Product floats on the water.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

For the substance/mixture/residual amounts:

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances.

Recommendation:

Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. suitable incineration plant. E.g. dispose at suitable refuse site.

For contaminated packing material: Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance.

14. TRANSPORT INFORMATION

14.1 UN number or ID number

ADR/RID: Not applicable.
IMDG: Not applicable.
IATA: Not applicable.

14.2 UN proper shipping name

ADR/RID: Not applicable.
IMDG: Not applicable.
IATA: Not applicable.

14.3 Transport hazard class(es)

ADR/RID: Not applicable.
IMDG: Not applicable.
IATA: Not applicable.

14.4 Packing group

ADR/RID: Not applicable.
IMDG: Not applicable.
IATA: Not applicable.

14.5 Environmental hazards

ADR/RID: Not applicable.
- **Tunnel restriction code:** Not applicable.
- **Classification code:** Not applicable.
- **LQ:** Not applicable.
- **Transport category:** Not applicable.

IMDG: Not applicable.
- **Marine Pollutant:** Not applicable.
- **EmS:** Not applicable.

IATA: Not applicable.

14.6 Special precautions for user
Unless specified otherwise, general measures for safe transport must be followed.

14.7 Maritime transport in bulk according to IMO instruments
Non-dangerous material according to Transport Regulations.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislations specific for the substance or mixture
Observe restrictions:
Comply with trade association/occupational health regulations.
Directive 2010/75/EU (VOC): < 0,3%
Water hazard category according to the General Assessment Method (ABM) 2016: B(4)
Compliance with the Working Conditions Decree (in particular Articles 4.105 and 4.106 – Young employees) (Netherlands).

15.2 Chemical safety assessment
A chemical safety assessment is not provided for mixtures.

16. OTHER INFORMATION

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EC) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No 1272/2008 (CLP)	Evaluation method used
Eye Irrit. 2, H319	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3):
H319 Causes serious eye irritation.

Eye Irrit.: Eye irritation.

Important literature references and data sources: Regulation (EC) No. 1907/2006 (REACH) and Regulation (EC) No. 1272/2008 (CLP) in the then valid version. Guidelines for drawing up safety data sheets in the currently valid version (ECHA).
Guidance on labeling and packaging in accordance with Regulation (EC) No 1272/2008 [CLP] in the currently valid version (ECHA).
Safety data sheets of the ingredients.
ECHA homepage – information on chemicals.
GESTIS substance database (Germany).
Federal Environmental Agency “Rigoletto” Information page on water pollutants (Germany).
EU occupational exposure limit values directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831 in the then valid version.
National lists of occupational exposure limit values of the respective countries in the currently valid version.

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT B)

Regulations for the transport of dangerous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) in the then valid version.

Abbreviations and acronyms:
ABM: Water hazard category according to the General Assessment Method.
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (=European Agreement concerning the International Carriage of Dangerous Goods by Road).
AOX: Absorbable organic halogen compounds.
ASTM: American Society for Testing and Materials.
ATE: Acute Toxicity Estimate.
BAM: Bundesanstalt für Marielforschung und -prüfung (Office Fédéral de Contrôle des Matériaux, Allemagne).
BAuA: Bundesanstalt für Arbeitsschutz and Arbeitsmedizin (= Bureau fédéral allemand de la protection et de la médecine du travail, Allemagne).
BCF: Bioconcentration factor.
BSEF: The International Bromine Council.
Bw: body weight.
CAS: Chemical Abstracts Service.
CLP: Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures).
CMR: carcinogenic, mutagenic, reproductive toxic.
DEFR: Département fédéral de l'économie, de la formation et de la recherche (Suisse).
DETEC: Département fédéral de l'environnement, des transports, de l'énergie et de la communication (Suisse).
DMEL: Derived Minimum Effect Level.
DNEL: Derived No Effect Level.
DOC: Dissolved organic carbon.
Dw: dry weight.
EC: European Community.
EEC: European Economic Community.
ECHA: European Chemicals Agency.
EINECS: European Inventory of Existing Commercial Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European norms.
EPA: United States Environmental Protection Agency (United States of America).
EVAL: Copolymère d'éthylène-alcool vinylique.
EU: European Union.
GHS: Globally Harmonised System of Classification and Labelling Chemicals.
GWP: Global warming potential.
IARC: International Agency for Research on Cancer.
IATA: International Air Transport Association.
IBC (Code): International Bulk Chemical (Code).
IMDG-code: International Maritime Code for Dangerous Goods.
ISO: International Organization for Standardization.
IUCLID: International Uniform Chemical Information Database.
IUPAC: International Union for Pure Applied Chemistry.
LC50: Lethal Concentration to 50% of a test population.
LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
LMD: Les listes pour les mouvements de déchets (Suisse).
Log Pow: Logarithm of octanol-water partition coefficient.
LQ: Limited Quantities.
NIOSH: National Institute for Occupational Safety and Health (USA).
NLP: No-longer-Polymer.

Creation date: 1/06/2023

2 KOMP TOP LEVEL+ (COMPONENT B)

NOEC, NOEL: No observed Effect Concentration/Level.
OECD: Organisation for Economic Co-operation and Development.
OFEV: Office fédéral de l'environnement (Suisse).
OMoD: Ordonnance sur les mouvements de déchets (Suisse).
Org.: Organic.
OSHA: Occupational Safety and Health Administration (USA).
OTD: Ordonnance sur le traitement des déchets (Suisse).
PBT: Persistent, bioaccumulative and toxic.
PNEC: Predicted No Effect Concentration.
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals).
REACH-IT List-No.: 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID: Règlement concernant le transport International ferroviaire de marchandises Dangereuses (=Regulation concerning the International Carriage of Dangerous Goods by Rail).
SVHC: Substances of Very High Concern.
UN RTDG: United Nations Recommendations on the Transport of Dangerous Goods.
VOC: Volatile Organic Compounds.
vPvB: very Persistent and very Bioaccumulative.
wwt: wet weight.