

Page 1 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Keramik Paste 200 mL Art.: 3415

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

Lubricant

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Sector of use [SU]: SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites SU21 - Consumer uses: Private households (=general public = consumers) SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen) Chemical product category [PC]: PC24 - Lubricants, greases, release products Process category [PROC]: PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions. PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing) PROC10 - Roller application or brushing Article Categories [AC]: AC99 - Not required. Environmental Release Category [ERC]: ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article) ERC 7 - Use of functional fluid at industrial site ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) ERC 8d - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) ERC 9a - Widespread use of functional fluid (indoor) ERC 9b - Widespread use of functional fluid (outdoor) Uses advised against: No information available at present. 1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (LMR)



Page 2 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415

SECTION 2: Hazards identification

2.1 Classification of the substance or mixtureClassification according to Regulation (EC) 1272/2008 (CLP)Hazard classHazard categoryHazard statementAerosol1H222-Extremely flammable aerosol.Aerosol1H229-Pressurised container: May burst if heated.

2.2 Label elements

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



Danger

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H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211-Do not spray on an open flame or other ignition source. P251-Do not pierce or burn, even after use. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Without adequate ventilation, formation of explosive mixtures may be possible.

2.3 Other hazards

The 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 %).

The 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 %).

SECTION 3: Composition/information on ingredients

3.1 Substance

^{n.a.} 3.2 Mixture

Disodium sebacate	
Registration number (REACH)	01-2120762063-61-XXXX
Index	
EINECS, ELINCS, NLP	241-300-3
CAS	17265-14-4
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP)	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.



Page 3 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

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Supply person with fresh air and consult doctor according to symptoms.

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.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

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

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SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

CO2 Extinction powder Water jet spray Large fire: Water jet spray Alcohol resistant foam **Unsuitable extinguishing media**

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Toxic gases

Danger of bursting (explosion) when heated

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke. Ensure sufficient supply of air. Avoid contact with eyes or skin. If applicable, caution - risk of slipping.

6.2 Environmental precautions

Prevent surface and ground-water infiltration, as well as ground penetration. Do not pour down the drain undiluted.



Page 4 of 16

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13. Or:

Soak up with absorbent material (e.g. universal binding agent) 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.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation. Avoid contact with eyes. Avoid long lasting or intensive contact with skin. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions. 7.1.2 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 feedingstuffs.

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 unauthorised individuals. Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Observe special storage conditions.

Keep protected from direct sunlight and temperatures over 50°C.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Butane	Content %:
WEL-TWA: 600 ppm (1450 mg/m3) WEL-STEL: 750 ppm (1810 mg/m3)	
Monitoring procedures:	 Compur - KITA-221 SA (549 459) 	
BMGV:	Other information:	
Chemical Name	Propane	Content %:
WEL-TWA: 1000 ppm (ACGIH)	WEL-STEL:	
Monitoring procedures:	- Compur - KITA-125 SA (549 954)	
BMGV:	Other information:	
Chemical Name	Titanium dioxide	Content %:
WEL-TWA: 10 mg/m3 (total inhalal	ble dust), 4 mg/m3 WEL-STEL:	
(respirable dust)		
Monitoring procedures:		
BMGV:	Other information:	
Chemical Name	Isobutane	Content %:
WEL-TWA: 1000 ppm (EX) (ACGII	H) WEL-STEL:	
Monitoring procedures:	 Compur - KITA-113 SB(C) (549 368) 	
BMGV:	Other information:	
Chemical Name	Silicon dioxide - amorphous	Content %:
WEL-TWA: 6 mg/m3 (total inh. dus	t), 2,4 mg/m3 WEL-STEL:	
(resp. dust)		



B Page 5 of 16

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415

Monitoring procedures: BMGV: ---

Other information: ---

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,018	mg/l	
	Environment - marine		PNEC	0,002	mg/l	
	Environment - sediment,		PNEC	0,548	mg/kg	
	freshwater					
	Environment - sediment,		PNEC	0,055	mg/kg	
	marine					
	Environment - soil		PNEC	0,099	mg/kg	
	Environment - sewage		PNEC	10	mg/l	
	treatment plant					
Consumer	Human - oral	Long term, systemic	DNEL	5	mg/kg	
		effects			bw/day	
Consumer	Human - dermal	Long term, systemic	DNEL	5	mg/kg	
		effects			bw/day	
Consumer	Human - inhalation	Long term, systemic	DNEL	8,7	mg/m3	
		effects				
Industrial / commercial	Human - inhalation	Long term, systemic	DNEL	35,26	mg/m3	
		effects				
Industrial / commercial	Human - dermal	Long term, systemic	DNEL	10	mg/kg	
		effects			bw/day	

Titanium dioxide					-	
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	0,184	mg/l	
	Environment - marine		PNEC	0,0184	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,193	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - sediment, freshwater		PNEC	1000	mg/kg dw	
	Environment - sediment, marine		PNEC	100	mg/kg dw	
	Environment - soil		PNEC	100	mg/kg dw	
	Environment - oral (animal feed)		PNEC	1667	mg/kg feed	
Consumer	Human - oral	Long term, systemic effects	DNEL	700	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m3	

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	20,6	µg/l	
	Environment - marine		PNEC	6,1	µg/l	
	Environment - sediment, freshwater		PNEC	117,8	mg/kg dry weight	
	Environment - sediment, marine		PNEC	56,5	mg/kg dry weight	



Page 6 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415

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	Environment - soil		PNEC	35,5	mg/kg dry weight
	Environment - sewage treatment plant		PNEC	100	µg/l
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,5	mg/m3
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5	mg/m3

Silicon dioxide - amorphous								
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note		
	Environmental							
	compartment							
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	4	mg/m3			

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU), 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision. (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction 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. BS EN 14042.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 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 feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: With danger of contact with eyes. Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Protective nitrile gloves (EN 374). Minimum layer thickness in mm: >= 0,5 Permeation time (penetration time) in minutes: 480 Protective hand cream recommended.

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.



Page 7 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415

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

Respiratory protection: Normally not necessary.

Thermal hazards: Not applicable

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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.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid The propellant is not released when used in accordance with
	the regulations.
Colour:	White
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	n.a.
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	Not determined
Evaporation rate:	Not determined
Flammability (solid, gas):	n.a.
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	1,08 g/cm3 (20°C)
Bulk density:	n.a.
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	Product is not explosive.
Oxidising properties:	No
9.2 Other information	
Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	Not determined

SECTION 10: Stability and reactivity

10.1 ReactivityThe product has not been tested.10.2 Chemical stability



Page 8 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415

Stable with proper storage and handling. 10.3 Possibility of hazardous reactions

No dangerous reactions are known. **10.4 Conditions to avoid**

See also section 7.

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Heating, open flame, ignition sources Pressure increase will result in danger of bursting.

10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

Art.: 3415	1					
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Disodium sebacate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:					OECD 492 (Reconstructed Human Cornea-like Epithelium Not Requir. C. + L. for Eye Irrit./Dam.)	Eye Irrit. 2

Butane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Aspiration hazard:						No



Page 9 of 16

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415

Symptoms:		di	taxia, breathing ifficulties,
		u	rowsiness, nconsciousness frostbite,
		di	isturbed heart hythm,
		h	eadaches, ramps,
			toxication, izziness,
			ausea and omiting.

Propane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Reproductive toxicity	NOAEC	21,641	mg/l		OECD 422 (Combined	
(Developmental toxicity):					Repeated Dose Tox.	
					Study with the	
					Reproduction/Developm.	
					Tox. Screening Test)	
Aspiration hazard:						No
Symptoms:						breathing
						difficulties,
						unconsciousnes
						, frostbite,
						headaches,
						cramps, mucous
						membrane
						irritation,
						dizziness,
						nausea and
						vomiting.

Titanium dioxide						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 425 (Acute Oral	
					Toxicity - Up-and-Down	
					Procedure)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LD50	>6,8	mg/l/4h	Rat		
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant,
					Irritation/Corrosion)	Mechanical
						irritation possible
Respiratory or skin				Mouse	OECD 429 (Skin	Not sensitizising
sensitisation:					Sensitisation - Local	_
					Lymph Node Assay)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation:					Sensitisation)	
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative
					Erythrocyte	-
					Micronucleus Test)	
Germ cell mutagenicity:				Salmonella	(Ames-Test)	Negative
				typhimurium		



Page 10 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415

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Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
					Mutation Test)	
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
6 ,					Reverse Mutation Test)	5
Reproductive toxicity				Rat	OECD 414 (Prenatal	No indications of
(Developmental toxicity):					Developmental Toxicity	such an effect.
					Study)	
Specific target organ toxicity -						Not irritant
single exposure (STOT-SE):						(respiratory tract).
Symptoms:						mucous
						membrane
						irritation,
						coughing,
						respiratory
						distress, drying
						of the skin.
Specific target organ toxicity -	NOAEL	3500	mg/kg/d	Rat		90d
repeated exposure (STOT-RE),	_		J ¹ J ¹			
oral:						
Specific target organ toxicity -	NOAEC	10	mg/m3	Rat		90d
repeated exposure (STOT-RE),		-	5			-
inhalat.:						

Isobutane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Serious eye damage/irritation:				Rabbit		Not irritant
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	_
Aspiration hazard:						No
Symptoms:						unconsciousness
						, frostbite,
						headaches,
						cramps,
						dizziness,
						nausea and
						vomiting.

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5110	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	IUCLID Chem. Data	
					Sheet (ESIS)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Not irritant
					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	IUCLID Chem. Data	Not sensitizising
sensitisation:					Sheet (ESIS)	
Germ cell mutagenicity:				Salmonella	(Ames-Test)	Negative
				typhimurium		
Carcinogenicity:						Negative
Reproductive toxicity:	NOAEL	>497	mg/kg			No indications of
			bw/d			such an effect.
Aspiration hazard:						No



Safety data sheet accordir Revision date / version: 03 Replacing version dated / Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415	3.08.202 version:	20 / 0015						
Specific target organ toxic repeated exposure (STOT		NOAEL	0,03	35	mg/l			Negative
inhalat.:	KE),							
				ON 40-1				
		3		UN 12:	Ecologic	al information		
Possibly more information Keramik Paste 200 mL	on envi	ronmental ef	fects, s	ee Section 2	2.1 (classifica	ation).		
Art.: 3415 Foxicity / effect	Endp	oint T	ime	Value	Unit	Organism	Test method	Notes
2.1. Toxicity to fish:						Ŭ		n.d.a.
12.1. Toxicity to daphnia:								n.d.a.
2.1. Toxicity to algae:								n.d.a.
2.2. Persistence and								n.d.a.
legradability: 2.3. Bioaccumulative potential:								n.d.a.
12.4. Mobility in soil:								n.d.a.
2.5. Results of PBT and vPvB assessment								n.d.a.
2.6. Other adverse effects:								n.d.a.
Other information:								According to the recipe, contains no AOX.
Disodium sebacate								
Toxicity / effect	Endp		īme	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	ç	6h	>100	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to algae:	EL50	7	'2h	38,7	mg/l	Skeletonema costatum	ISO 10253	
12.1. Toxicity to daphnia:	EC0	4	8h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.2. Persistence and degradability:		2	:8d	89	%		OECD 306 (Biodegradability	Readily biodegradable
Dutana				1			in Seawater)	
Butane Foxicity / effect	Endp	oint 7	ime	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50		6h	24,11	mg/l		QSAR	
2.1. Toxicity to daphnia:	LC50	4	8h	14,22	mg/l		QSAR	
2.3. Bioaccumulative otential:	Log P			2,98				A notable biological accumulation potential is not be expected (l or power 1 2)
2.5. Results of PBT and vPvB assessment								(LogPow 1-3). No PBT substance, No vPvB substance



B Page 12 of 16

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415

12.3. Bioaccumulative potential:	Log Pow	2,28	A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.5. Results of PBT and vPvB assessment			No PBT substance, No vPvB substance

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	LC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EC50	72h	16	mg/l	Pseudokirchneriell a subcapitata	U.S. EPA-600/9- 78-018	
12.2. Persistence and degradability:							Not relevant for inorganic substances.
12.3. Bioaccumulative potential:	BCF	42d	9,6				Not to be expected
12.3. Bioaccumulative potential:	BCF	14d	19-352				Oncorhynchus mykiss
12.4. Mobility in soil:							Negative
12.5. Results of PBT and vPvB assessment							No PBT substance, No
							vPvB substance
Toxicity to bacteria:			>5000	mg/l	Escherichia coli		
Toxicity to bacteria:	LC0	24h	>10000	mg/l	Pseudomonas fluorescens		
Toxicity to annelids:	NOEC/NOEL		>1000	mg/kg	Eisenia foetida		
Water solubility:							Insoluble20°C

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative							A notable
potential:							biological
							accumulation
							potential is not to
							be expected
							(LogPow 1-3).
12.1. Toxicity to fish:	LC50	96h	27,98	mg/l			
12.1. Toxicity to algae:	EC50	96h	7,71	mg/l			
12.2. Persistence and							Readily
degradability:							biodegradable
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

Silicon dioxide - amorphous									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance		
12.1. Toxicity to fish:	LC50	96h	>10000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)			



Page 13 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415

12.2. Persistence and degradability:							Not relevant for inorganic substances.
12.1. Toxicity to algae:	IC50	72h	440	mg/l	Pseudokirchneriell a subcapitata	IUCLID Chem. Data Sheet (ESIS)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	60	mg/l	Pseudokirchneriell a subcapitata	IUCLID Chem. Data Sheet (ESIS)	
12.1. Toxicity to daphnia:	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	

SECTION 13: Disposal considerations

13.1 Waste treatment methods For the substance / mixture / residual amounts

EC disposal code no.:

(GB)·

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) 12 01 12 spent waxes and fats Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations. Dispose of packaging that cannot be cleaned in the same manner as the substance. 15 01 04 metallic packaging

SECTION 14: Transport information

General statements 14.1. UN number:	1950	
Transport by road/by rail (ADR/RID)		
14.2. UN proper shipping name:		•
UN 1950 AEROSOLS		
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	n.a.	•
Classification code:	5F	
LQ:	1L	
14.5. Environmental hazards:	Not applicable	
Tunnel restriction code:	D	
Transport by sea (IMDG-code)		
14.2. UN proper shipping name:		•
AEROSOLS		
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	n.a.	•
EmS:	F-D, S-U	
Marine Pollutant:	n.a	
14.5. Environmental hazards:	Not applicable	
Transport by air (IATA)		
14.2. UN proper shipping name:		_
Aerosols, flammable		
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	n.a.	•
14.5. Environmental hazards:	Not applicable	



Page 14 of 16

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained. All persons involved in transporting must observe safety regulations. Precautions must be taken to prevent damage.

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

Freighted as packaged goods rather than in bulk, therefore not applicable. Minimum amount regulations have not been taken into account. Danger code and packing code on request.

Comply with special provisions.

SECTION 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)! Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for the	referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
P3b	11.1, 11.2	5000 (netto)	50000 (netto)

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

Dangerous substances	Notes to Annex I	Qualifying quantity	Qualifying quantity		
		(tonnes) for the	(tonnes) for the		
		application of - Lower-tier	application of - Upper-tier		
		requirements	requirements		
Liquefied flammable	19	50	200		
gases, Category 1 or 2					
(including LPG) and					
natural gas					
	Dangerous substances Liquefied flammable gases, Category 1 or 2 (including LPG) and	Dangerous substances Notes to Annex I Liquefied flammable gases, Category 1 or 2 (including LPG) and 19	Dangerous substances Notes to Annex I Qualifying quantity (tonnes) for the application of - Lower-tier requirements Liquefied flammable gases, Category 1 or 2 (including LPG) and 19 50		

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2010/75/EU (VOC):

35 g/l

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

3, 8, 11, 12, 15, 16

Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

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



Page 15 of 16

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 Keramik Paste 200 mL Art.: 3415

Classification in accordance with regulation	Evaluation method used	
(EC) No. 1272/2008 (CLP)		
Aerosol 1, H222	Classification according to calculation procedure.	
Aerosol 1, H229	Classification based on the form or physical state.	

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.

Aerosol — Aerosols Eye Irrit. — Eye irritation

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BSEF The International Bromine Council body weight bw CAS Chemical Abstracts Service Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances CI P and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level dw dry weight e.g. for example (abbreviation of Latin 'exempli gratia'), for instance ΕČ **European Community** ECHA European Chemicals Agency European Economic Community EEC **EINECS** European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances FN European Norms EPA United States Environmental Protection Agency (United States of America) etc. et cetera EU **European Union** EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number general gen. GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential IARC International Agency for Research on Cancer International Air Transport Association IATA IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods incl. including, inclusive **IUCLID** International Uniform Chemical Information Database Limited Quantities 10 MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. n.av. not available not checked n.c. n.d.a. no data available



ആ Page 16 of 16 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 03.08.2020 / 0015 Replacing version dated / version: 13.04.2018 / 0014 Valid from: 03.08.2020 PDF print date: 04.08.2020 . Keramik Paste 200 mL Art.: 3415 OECD Organisation for Economic Co-operation and Development org. organic persistent, bioaccumulative and toxic PBT PΕ Polyethylene PNEC Predicted No Effect Concentration parts per million ppm Polyvinylchloride PVC REACHRegistration, 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. Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International RID Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Telephone Tel. United Nations Recommendations on the Transport of Dangerous Goods UN RTDG VOC Volatile organic compounds very persistent and very bioaccumulative vPvB wet weight wwt

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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