

Page 1 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

Valid from: 21.11.2024 PDF print date: 21.11.2024 Keramikpaste (Pinseldose)

# Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by **Regulation (EU) 2020/878)**

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

#### 1.1 Product identifier

# **Keramikpaste** (Pinseldose)

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

# Uses advised against:

No information available at present.

# 1.3 Details of the supplier of the safety data sheet

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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:

Landspitali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland)

# Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

+1 872 5888271 (LMR)

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP) Hazard class Hazard category **Hazard statement** 

Aerosol 1 H222-Extremely flammable aerosol.

1 Aerosol H229-Pressurised container: May burst if heated.

### 2.2 Label elements

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



Page 2 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0022

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Danger

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.

EUH211-Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

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

#### 3.1 Substances

# n.a. **3.2 Mixtures**

Titanium dioxide (in powder form containing 1 % or more of particles	
with aerodynamic diameter <= 10 μm)	
Registration number (REACH)	01-2119489379-17-XXXX
Index	022-006-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	236-675-5
CAS	13463-67-7
content %	1-<2,5
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Carc. 2, H351 (as inhalation)

Disodium sebacate	
Registration number (REACH)	01-2120762063-61-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	241-300-3
CAS	17265-14-4
content %	1-<2,5
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.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

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



Page 3 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0022

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### 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

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.

#### **Eve 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

n.c.

# **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

For personal protective equipment see Section 8.

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

**6.1.1 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.

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.



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Page 4 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

Valid from: 21.11.2024 PDF print date: 21.11.2024 Keramikpaste (Pinseldose)

## 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

# 6.2 Environmental precautions

Prevent surface and ground-water infiltration, as well as ground penetration.

Do not pour down the drain undiluted.

#### 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.

Observe special regulations for aerosols!

#### 7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

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

#### 8.1 Control parameters

©B Chemical Name	aerodynamic diam	eter <= 10 μm)	nining 1 % or more of particles	with	
WEL-TWA: 10 mg/m3 (total inhala	ble dust), 4 mg/m3	WEL-STEL:			
(respirable dust)					
Monitoring procedures:	-				
BMGV:			Other information	tion:	
Chamical Name	Dutana		·		
© Chemical Name	Butane				
WEL-TWA: 600 ppm (1450 mg/m3	3)	WEL-STEL: 750	) ppm (1810 mg/m3)		
Monitoring procedures:	- (	Compur - KITA-221	SA (549 459)		
	- (	DSHA PV2010 (n-Βι	ıtane) - 1993		
BMGV:		`	Other informa	tion:	
Chemical Name	Propane				

© Chemical Name Propane



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Page 5 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

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Monitoring procedures:

WEL-TWA: 1000 ppm (ACGIH)		WEL-STEL:		
Monitoring procedures:	-	Compur - KITA-125 SA (549 954)		
	-	OSHA PV2077 (Propane) - 1990		
BMGV:			Other information:	
	Isobutane			
WEL-TWA: 1000 ppm (EX) (ACGII	H)	WEL-STEL:		

- Compur - KITA-113 SB(C) (549 368)

BMGV:	·	Other information:	Other information:					
© Chemical Name Silicon dioxide - amorphous								
WEL-TWA: 6 mg/m3 (total inh. dus	st), 2,4 mg/m3 WEL-STEL:							
(resp. dust)								
Monitoring procedures:								
BMGV:		Other information:						

Titanium dioxide (in powder form containing 1 % or more of particles with aerodynamic diameter <= 10 µm)								
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,		PNEC	0,193	mg/l			
	sporadic (intermittent)							
	release							
	Environment - sewage		PNEC	100	mg/l			
	treatment plant							
	Environment - sediment,		PNEC	1000	mg/kg dw			
	freshwater							
	Environment - sediment,		PNEC	100	mg/kg dw			
	marine							
	Environment - soil		PNEC	100	mg/kg dw			
	Environment - oral (animal		PNEC	1667	mg/kg feed			
	feed)							
Consumer	Human - oral	Long term, systemic	DNEL	700	mg/kg bw/d			
		effects						
Workers / employees	Human - inhalation	Long term, local effects	DNEL	10	mg/m3			

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, freshwater		PNEC	0,548	mg/kg	
	Environment - sediment, marine		PNEC	0,055	mg/kg	
	Environment - soil		PNEC	0,099	mg/kg	
	Environment - sewage treatment plant		PNEC	10	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	5	mg/kg bw/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	5	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	8,7	mg/m3	
Industrial / commercial	Human - inhalation	Long term, systemic effects	DNEL	35,26	mg/m3	
Industrial / commercial	Human - dermal	Long term, systemic effects	DNEL	10	mg/kg bw/day	



Page 6 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

Propene						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	1,38	mg/l	
	Environment - marine		PNEC	1,38	mg/l	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	860	mg/m3	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	860	mg/m3	

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	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	
	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	
Consumer	Human - dermal	Long term, systemic effects	DNEL	83	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,83	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	83	mg/kg bw/day	

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	

- United Kingdom | WEL-TWA = Workplace Exposure Limit Long-term exposure limit 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
- (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE).
- | WEL-STEL = Workplace Exposure Limit Short-term exposure limit 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:
- (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |
- | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).
- (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |
- Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
- (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU: (13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible.



(B)

Page 7 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

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#### 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. EN 14042.

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 ISO 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.

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

Colour:

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

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.

White

Odour: Characteristic

There is no information available on this parameter.

There is no information available on this parameter.

Melting point/freezing point:
Boiling point or initial boiling point and boiling range:



Page 8 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

Valid from: 21.11.2024 PDF print date: 21.11.2024 Keramikpaste (Pinseldose)

Flammability:

Lower explosion limit: Upper explosion limit:

Flash point:

Auto-ignition temperature:

Decomposition temperature:

pH:

Kinematic viscosity:

Solubility:

Partition coefficient n-octanol/water (log value):

Vapour pressure:

Density and/or relative density:

Relative vapour density:

Particle characteristics:

9.2 Other information

Explosives:

Oxidising liquids: Bulk density:

Does not apply to aerosols.

There is no information available on this parameter. There is no information available on this parameter.

Does not apply to aerosols. Does not apply to aerosols.

There is no information available on this parameter.

Mixture is non-soluble (in water). Does not apply to aerosols.

Insoluble

Does not apply to mixtures.

There is no information available on this parameter.

1,08 g/cm3 (20°C)

Does not apply to aerosols. Does not apply to aerosols.

Product is not explosive.

No n.a.

# **SECTION 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 are known.

#### 10.4 Conditions to avoid

See also section 7.

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

Keramikpaste (Pinseldose)						
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.



Page 9 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

Titanium dioxide (in powder fo						N. 4
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:	LC50	>5,09-6,8	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:				James pig	Sensitisation)	(0 00
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian	Negative
Common matagornous.				Wiedee	Erythrocyte	rioganio
					Micronucleus Test)	
Germ cell mutagenicity:				Mammalian	OECD 473 (In Vitro	Negative
Cerm cen matagementy.				Warrinanan	Mammalian	ricgative
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	(Ames-Test)	Mogativa
Germ cell mutagenicity.					(Ames-rest)	Negative
Commo cell monte maniaitra				typhimurium	OEOD 470 (lp ) //tro	Namativa
Germ cell mutagenicity:					OECD 476 (In Vitro	Negative
					Mammalian Cell Gene	
0 " ' ' '					Mutation Test)	NI C
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
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)
Specific target organ toxicity -	NOAEL	3500	mg/kg/d	Rat		(90d)
repeated exposure (STOT-RE),						
oral:						
Specific target organ toxicity -	NOAEC	10	mg/m3	Rat		(90d)
repeated exposure (STOT-RE),						
inhalat.:						
Symptoms:						mucous
•						membrane
						irritation,
						coughing,
						respiratory
						distress, drying
						of the skin.

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	Not irritant	
					Dermal		
					Irritation/Corrosion)		



Page 10 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

Serious eye damage/irritation:			OECD 492 (Reconstructed Human Cornea-like Epithelium Not Requir. C. + L. for Eye Irrit./Dam.)	Eye Irrit. 2
Respiratory or skin sensitisation:				Negative

Butane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Human being	OECD 473 (In Vitro	Negative
•					Mammalian `	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian	Negative
					Erythrocyte	
					Micronucleus Test)	
Specific target organ toxicity -	NOAEC	21,394	mg/l	Rat	OECD 422 (Combined	
repeated exposure (STOT-RE),					Repeated Dose Tox.	
inhalat.:					Study with the	
					Reproduction/Developm.	
					Tox. Screening Test)	
Aspiration hazard:						No
Symptoms:						ataxia, breathing
						difficulties,
						drowsiness,
						unconsciousness
						, frostbite,
						disturbed heart
						rhythm,
						headaches,
						cramps,
						intoxication,
						dizziness,
						nausea and
						vomiting.

Propane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Acute toxicity, by inhalation:	LC50	260000	ppmV/4h	Rat		Gasses, Male,
						Analogous
						conclusion
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:						Not irritant
Germ cell mutagenicity:					OECD 473 (In Vitro	Negative
					Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	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)	



Page 11 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

	,					
Specific target organ toxicity -	NOAEL	7,214	mg/l	Rat	OECD 422 (Combined	
repeated exposure (STOT-RE),					Repeated Dose Tox.	
inhalat.:					Study with the	
inidat.					Reproduction/Developm.	
					Tox. Screening Test)	
Specific target organ toxicity -	LOAEL	21,641	mg/l	Rat	OECD 422 (Combined	
repeated exposure (STOT-RE),					Repeated Dose Tox.	
inhalat.:					Study with the	
					Reproduction/Developm.	
					Tox. Screening Test)	
Aspiration hazard:					,	No
Symptoms:						breathing
						difficulties,
						unconsciousness
						, frostbite,
						headaches,
						cramps, mucous
						membrane
						irritation,
						dizziness,
						·
						nausea and
						vomiting.

Isobutane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Acute toxicity, by inhalation:	LC50	260000	ppmV/4h	Rat		Gasses, Male
Serious eye damage/irritation:				Rabbit		Not irritant
Germ cell mutagenicity:				Salmonella	OECD 471 (Bacterial	Negative
				typhimurium	Reverse Mutation Test)	
Specific target organ toxicity -	NOAEL	21,394	mg/l	Rat	OECD 422 (Combined	
repeated exposure (STOT-RE),					Repeated Dose Tox.	
inhalat.:					Study with the	
					Reproduction/Developm.	
					Tox. Screening Test)	
Aspiration hazard:					-	No
Symptoms:						unconsciousness
						, frostbite,
						headaches,
						cramps,
						dizziness,
						nausea and
						vomiting.

Silicon dioxide - amorphous						
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	>5000	mg/kg	Rabbit	IUCLID Chem. Data Sheet (ESIS)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	IUCLID Chem. Data Sheet (ESIS)	Not sensitizising
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative
Carcinogenicity:						Negative
Reproductive toxicity:	NOAEL	>497	mg/kg bw/d			No indications of such an effect.



Page 12 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

Valid from: 21.11.2024 PDF print date: 21.11.2024 Keramikpaste (Pinseldose)

Specific target organ toxicity -	NOAEL	0,035	mg/l		Negative
repeated exposure (STOT-RE),					
inhalat.:					

# 11.2. Information on other hazards

Keramikpaste (Pinseldose)						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:						Does not apply
						to mixtures.
Other information:						No other
						relevant
						information
						available on
						adverse effects
						on health.

# **SECTION 12: Ecological information**

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

Keramikpaste (Pinseldos	se)						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	-						n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							n.d.a.
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Endocrine							Does not apply
disrupting properties:							to mixtures.
12.7. Other adverse							No information
effects:							available on
							other adverse
							effects on the
							environment.
Other information:							According to th
							recipe, contains
							no AOX.

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



Page 13 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

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

Disodium sebacate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	3	mg/l	Skeletonema costatum	ISO 10253	
12.1. Toxicity to algae:	EL50	72h	38,7	mg/l	Skeletonema costatum	ISO 10253	
12.2. Persistence and degradability:		28d	89	%		OECD 306 (Biodegradability in Seawater)	Readily biodegradable
12.4. Mobility in soil:	Log Koc		2,429			,	25°C

Butane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	24,11	mg/l		QSAR	
12.1. Toxicity to daphnia:	LC50	48h	14,22	mg/l		QSAR	
12.3. Bioaccumulative potential:	Log Pow		2,98				A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.4. Mobility in soil:							Not to be expected
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

Propane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
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

Isobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
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



B)

Page 14 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

Valid from: 21.11.2024 PDF print date: 21.11.2024 Keramikpaste (Pinseldose)

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

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>10000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	30d	34223	mg/l	Daphnia magna	,	
12.1. Toxicity to algae:	EC50	72h	>10000	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
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)	
12.2. Persistence and degradability:							Not relevant for inorganic substances.

# **SECTION 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)

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**

# Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:

14.2. UN proper shipping name:

UN 1950 AEROSOLS

14.3. Transport hazard class(es):

14.4. Packing group:

1950







(B)-

Page 15 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

Valid from: 21.11.2024 PDF print date: 21.11.2024 Keramikpaste (Pinseldose)

14.5. Environmental hazards: Not applicable

Tunnel restriction code:

Classification code:

5F
LQ:
1 L
Transport category:
2

Transport by sea (IMDG-code)

14.1. UN number or ID number: 1950

14.2. UN proper shipping name: UN 1950 AEROSOLS

14.3. Transport hazard class(es): 2.1

14.4. Packing group:

14.5. Environmental hazards:Not applicableMarine Pollutant:Not applicableEmS:F-D, S-U

Transport by air (IATA)

14.1. UN number or ID number: 1950

14.2. UN proper shipping name: UN 1950 Aerosols, flammable

14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards: Not applicable



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. Maritime transport in bulk according to IMO instruments

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.):

_according to storage, nandling 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
P3a	11.1	150 (netto)	500 (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:

Directive 2012/10/E0 ( Seveso III ), Ariflex I, Fait 2 - This product contains the substances listed below.							
Entry Nr	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			
18	Liquefied flammable	19	50	200			
	gases, Category 1 or 2						
	(including LPG) and						
	natural gas						

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.



(B)

Page 16 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

Valid from: 21.11.2024 PDF print date: 21.11.2024 Keramikpaste (Pinseldose)

Directive 2010/75/EU (VOC):

35 g/l

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

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

Revised sections:

8

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):

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.

H351 Suspected of causing cancer by inhalation.

H319 Causes serious eye irritation.

Aerosol — Aerosols Carc. — Carcinogenicity Eye Irrit. — Eye irritation

#### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

# Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the 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)

ATE Acute Toxicity Estimate

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)

BCF Bioconcentration factor



Page 17 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

Valid from: 21.11.2024 PDF print date: 21.11.2024 Keramikpaste (Pinseldose)

BSEF The International Bromine Council

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

DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community
ECHA European Chemicals Agency
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100)

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ErCx, EµCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)

etc. et cetera EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

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

incl. including, inclusive

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)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

mg/kg bw mg/kg body weight

mg/kg bw/d, mg/kg bw/day mg/kg body weight/day

mg/kg dw mg/kg dry weight mg/kg wwt mg/kg wet weight

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

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

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)



(B)

Page 18 of 18

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

Revision date / version: 21.11.2024 / 0022

Replacing version dated / version: 04.03.2024 / 0021

Valid from: 21.11.2024 PDF print date: 21.11.2024 Keramikpaste (Pinseldose)

REACH-IT List-No. 6/7/8/9xx-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-

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

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

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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