

Page 1 of 10

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

Revised on / Version: 12.12.2011 / 0009

Replaces revision of / Version: 19.01.2011 / 0008

Valid from: 12.12.2011 PDF print date: 12.12.2011 Keramik-Paste 50GR Art.: 3418

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 50GR

Art.: 3418

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

Lubricant

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 - Use in closed process, no likelihood of exposure.

PROC 2 - Use in closed, continuous process with occasional controlled exposure

PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC 9 - Transfer of substance or preparation 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 - Industrial use of processing aids in processes and products, not becoming part of articles

ERC 7 - Industrial use of substances in closed systems

ERC 8a - Wide dispersive indoor use of processing aids in open systems

ERC 8d - Wide dispersive outdoor use of processing aids in open systems

ERC 9a - Wide dispersive indoor use of substances in closed systems

ERC 9b - Wide dispersive outdoor use of substances in closed systems

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH, Jerg-Wieland-Straße 4, D-89081 Úlm-Lehr Telephone (+49) 0731-1420-0, Fax (+49) 0731-1420-88

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

1.4 Emergency telephone

Advisory office in case of poisoning:

Telephone number of the company in case of emergencies:

Tel.: (+49) 0731-1420-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Not determined



Page 2 of 10

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

Revised on / Version: 12.12.2011 / 0009 Replaces revision of / Version: 19.01.2011 / 0008

Valid from: 12.12.2011 PDF print date: 12.12.2011 Keramik-Paste 50GR Art.: 3418

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments).

The mixture is not classified as dangerous in the terms of the directive 1999/45/EC.

2.2 Label elements

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

2.2.2 Labeling according to Directives 67/548/EEC and 1999/45/EC (including amendments).

Symbols: Not applicable Indications of danger:

R-phrases:

S-phrases:

Additions: n.a.

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.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a. 3.2 Mixture

01= 1111110110		
-		
Registration number (ECHA)		
Index	-	
EINECS, ELINCS	-	
CAS	-	
content %		
Symbol	-	
R-phrases	-	
Classification categories / Indications of danger		
Hazard class/Hazard category	Hazard statement	

SECTION 4: First aid measures

4.1 Description of first aid measures

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.

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



Page 3 of 10

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

Revised on / Version: 12.12.2011 / 0009

Replaces revision of / Version: 19.01.2011 / 0008

Valid from: 12.12.2011 PDF print date: 12.12.2011 Keramik-Paste 50GR Art.: 3418

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

4.3 Indication of any immediate medical attention and special treatment needed

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

Cool container at risk with water.

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

5.3 Advice for firefighters

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

Protective respirator with independent air supply.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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.

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.

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

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.

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

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.



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Page 4 of 10

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

Revised on / Version: 12.12.2011 / 0009

Replaces revision of / Version: 19.01.2011 / 0008

Valid from: 12.12.2011 PDF print date: 12.12.2011 Keramik-Paste 50GR Art.: 3418

Store cool

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

© Chemical Name Si	ilica, amorphous				Content %:
WEL-TWA: 6 mg/m3 (total inh. dust), 2	2,4 mg/m3	WEL-STEL:			
(resp. dust)					
BMGV:				Other information:	
			•		
Chemical Name Tit	itanium dioxide				Content %:
WEL-TWA: 10 mg/m3 (total inhalable of	dust), 4 mg/m3	WEL-STEL:			
(respirable dust)					
BMG\/·	•			Other information:	

^{** =} The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

Titanium	Titanium dioxide									
Use- Area	Exposure-Pattern Exposure-Pattern		Descriptor	Value	Unit	Note				
Worker	Human - inhalation	Long term, local effects	DNEL (Derived No Effect Level)	10	mg/m3					
Consum er	Human - oral	Long term, systemic effects	DNEL (Derived No Effect Level)	700	mg/kg					
	Environment - freshwater		PNEC (Predicted No Effect Concentration)	0,127	mg/l					
	Environment - marine		PNEC (Predicted No Effect Concentration)	1	mg/l					
	Environment - water, sporadic (intermittent) release		PNEC (Predicted No Effect Concentration)	0,61	mg/l					
	Environment - sewage treatment plant		PNEC (Predicted No Effect Concentration)	100	mg/l					
	Environment - sediment, freshwater		PNEC (Predicted No Effect Concentration)	1000	mg/kg dw					
	Environment - sediment, marine		PNEC (Predicted No Effect Concentration)	100	mg/kg dw					
	Environment - soil		PNEC (Predicted No Effect Concentration)	100	mg/kg dw					
	Environment - oral (feed)		PNEC (Predicted No Effect Concentration)	1667	mg/kg feed					

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.

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.

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | 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.



Page 5 of 10

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

Revised on / Version: 12.12.2011 / 0009

Replaces revision of / Version: 19.01.2011 / 0008

Valid from: 12.12.2011 PDF print date: 12.12.2011 Keramik-Paste 50GR Art.: 3418

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.

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

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:

Colour:

Odour:

Odour threshold:

DH-value:

Paste

White

Characteristic

Not determined

n.a.

Melting point/freezing point:

Initial boiling point and boiling range:

Flash point:

Not determined

Not determined

Not determined

Flash point:

Evaporation rate:

Flammability (solid, gas):

Lower explosive limit:

Not determined

Not determined

n.a.

Upper explosive limit:

Vapour pressure:

Vapour density (air = 1):

Density:

n.a.

Not determined

Not determined

1,09 g/ml (20°C)

Bulk density: n.a.

Solubility(ies):
Water solubility:
Partition coefficient (n-octanol/water):
Not determined
Not determined

Auto-ignition temperature: n.a.

Decomposition temperature: Not determined Viscosity: Not determined

Explosive properties: Product is not explosive.

Oxidising properties:

9.2 Other information

Miscibility: Not determined Fat solubility / solvent: Not determined



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Page 6 of 10

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

Revised on / Version: 12.12.2011 / 0009

Replaces revision of / Version: 19.01.2011 / 0008

Valid from: 12.12.2011 PDF print date: 12.12.2011 Keramik-Paste 50GR Art.: 3418

Conductivity: Not determined Surface tension: Not determined Solvents content: Not determined

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.

None known

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

Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	τ					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.
Respiratory tract irritation:						n.d.a.
Repeated dose toxicity:						n.d.a.
Symptoms:						n.d.a.
Other toxicity data:						Classification accord
•						to calculation proced

Titanium dioxide									
Toxicity/effect	Endpoin t	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		Not irritant			
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant, Mechanical irritation possible.			



Page 7 of 10

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revised on / Version: 12.12.2011 / 0009

Replaces revision of / Version: 19.01.2011 / 0008

Valid from: 12.12.2011 PDF print date: 12.12.2011 Keramik-Paste 50GR Art.: 3418

Respiratory or skin sensitisation:					OECD 406 (Skin Sensitisation)	Not sensitizising
Respiratory or skin sensitisation:					OECD 429 (Śkin Sensitisation - Local	Not sensitizising
Symptoms:					Lymph Node Assay)	mucous membrane irritation
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	3500	mg/kg/d	Rat		90 d
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEC	10	mg/m3	Rat		90 d

SECTION 12: Ecological information

Keramik-Paste 50GR Art.: 3418							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and							n.d.a.
degradability:							
Bioaccumulative							n.d.a.
potential:							
Mobility in soil:							n.d.a.
Results of PBT and							n.d.a.
vPvB assessment							
Other adverse effects:							n.d.a.
Other ecotoxicological							According to the recipe,
data:							contains no AOX.

Titanium dioxide							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	>100	mg/l	(Oncorhynchus	OECD 203	
					mykiss)	(Fish, Acute	
						Toxicity Test)	
Toxicity to daphnia:	LC50	48h	>100	mg/l	(Daphnia magna)	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
Toxicity to algae:	EC50	72h	16	mg/l	(Pseudokirchneriell	U.S. EPA 600-	
					a subcapitata)	9/78-018	
Persistence and							Not readily biodegradable
degradability:							
Bioaccumulative							No
potential:							
Mobility in soil:							Negative
Toxicity to bacteria:			>5000	mg/l	(Pseudomonas		
					fluorescens)		
Toxicity to bacteria:			>5000	mg/l	(Escherichia coli)		
Toxicity to bacteria:	LC0	24h	>1000	mg/l	(Pseudomonas		
			0		fluorescens)		
Water solubility:							Insoluble

SECTION 13: Disposal considerations

13.1 Waste treatment methods



Page 8 of 10

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

Revised on / Version: 12.12.2011 / 0009 Replaces revision of / Version: 19.01.2011 / 0008

Valid from: 12.12.2011 PDF print date: 12.12.2011 Keramik-Paste 50GR Art.: 3418

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. (2001/118/EC, 2001/119/EC, 2001/573/EC)

12 01 12 spent waxes and fats

Recommendation:

Pay attention to local and national official regulations

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

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

UN number: n.a.

Transport by road/by rail (ADR/RID)

UN proper shipping name:

Transport hazard class(es):

Packing group:

Classification code:

LQ (ADR 2011):

LQ (ADR 2009):

n.a.

n.a.

Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

UN proper shipping name:

Transport hazard class(es):

Packing group:

Marine Pollutant:

n.a.

Environmental hazards: Not applicable

Transport by air (IATA)

UN proper shipping name:

Transport hazard class(es):

Packing group:

n.a.

n.a.

Environmental hazards: Not applicable

Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

For classification and labelling see Section 2.

Observe restrictions:

VOC (1999/13/EC):

n.a.

n.a.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections: 2, 3, 4, 7, 11, 12, 16



Page 9 of 10

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

Revised on / Version: 12.12.2011 / 0009

Replaces revision of / Version: 19.01.2011 / 0008

Valid from: 12.12.2011 PDF print date: 12.12.2011 Keramik-Paste 50GR Art.: 3418

Legend:

AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

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

International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level
AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

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

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

CAS Chemical Abstracts Service

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances

and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

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

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

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

EC European Community
ECHA European Chemicals Agency
EEA European Economic Area
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)

ERC Environmental Release Categories

ES Exposure scenario

etc. et cetera EU European Union

EWC European Waste Catalogue

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database



Page 10 of 10

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

Revised on / Version: 12.12.2011 / 0009

Replaces revision of / Version: 19.01.2011 / 0008

Valid from: 12.12.2011 PDF print date: 12.12.2011 Keramik-Paste 50GR Art.: 3418

lethal concentration

LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration

ΙD Lethal Dose of a chemical LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low

LMBG Lebensmittel- und Bedarfsgegenständegesetz (= Foodstuffs and Commodities Law)

LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration LOEL Lowest Observed Effect Level

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable n.a. n.av. not available n.c. not checked

n.d.a. no data available

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAECNo Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration NOEL No Observed Effect Level

ODP Ozone Depletion Potential OECD Organisation for Economic Co-operation and Development

org. organic

PAH polycyclic aromatic hydrocarbon

PC product category (= Chemical product category)

PΕ Polyethylene

PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential

parts per million mag PROC Process category PTFE Polytetrafluorethylene

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

Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Telephone Tel.

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances) VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

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, Wöbbeler Straße 2-4, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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