

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

KGS56SW GL WASSERFALL



REIMBOLD & STRICK

Handels- und Entwicklungsgesellschaft
für chemisch-keramische Produkte mbH

Version 1 Date of compilation: 1/10/2019
Version 2 (replaces version 1)

Revision date: 25/01/2024

Page 1 of 11
Print date: 25/01/2024

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

1.1 Product identifier.

Product Name: KGS56SW GL WASSERFALL
UFI: 8R41-Q0WC-G00G-0WN3

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

Ceramic use.

Uses advised against:

Uses other than those recommended.

1.3 Details of the supplier of the safety data sheet.

Company: **REIMBOLD UND STRICK HANDELS**
Address: Hansestr. 70
City: 51149 Köln
Telephone: +49 2203 8985-0
E-mail: info@reibold-und-strick.de
Web: www.reibold-und-strick.de

1.4 Emergency telephone number: + 49(0) 70024112112 (RSD) / +1 872 5888271 (RSD) / inside USA: +11 49(0) 70024112112 (RSD) / +1 872 5888271 (RSD) (Available 24 hours)

SECTION 2: HAZARDS IDENTIFICATION.

2.1 Classification of the substance or mixture.

In accordance with Regulation (EC) No 1272/2008:

Aquatic Chronic 2 : Toxic to aquatic life with long lasting effects.

Resp. Sens. 1 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.

STOT RE 2 : May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements.

Labelling in accordance with Regulation (EC) No 1272/2008:

Pictograms:



Signal Word:

Danger

Hazard statements:

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P284 [In case of inadequate ventilation] wear respiratory protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 Get medical advice/attention if you feel unwell.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor/...
P391 Collect spillage.
P501 Dispose of contents/container according with current regulation.

-Continued on next page.-

SAFETY DATA SHEET

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für chemisch-keramische Produkte mbH

Version 1 Date of compilation: 1/10/2019

Version 2 (replaces version 1)

Revision date: 25/01/2024

Page 2 of 11

Print date: 25/01/2024

Contains:
tricobalt tetraoxide
Quartz (SiO₂) (respirable fraction)

2.3 Other hazards.

The mixture does not contain substances classified as PBT.
The mixture does not contain substances classified as vPvB.
The mixture does not contain any endocrine disrupting properties substances.

The product may have the following additional risks:
No other hazardous known as mentioned.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

3.1 Substances.

Not applicable.

3.2 Mixtures.

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	Specifics concentration limits and Acute toxicity estimate
Index No: 030-013-00-7 CAS No: 1314-13-2 EC No: 215-222-5 Registration No: 01-2119463881-32-XXXX	zinc oxide	>=10% <25%	Aquatic Acute 1, H400 - Aquatic Chronic 1, H410	-
CAS No: 1308-06-1 EC No: 215-157-2 Registration No: 01-2119517310-56-XXXX	tricobalt tetraoxide	>=2.5% <5%	Aquatic Chronic 3, H412 - Resp. Sens. 1, H334	-
CAS No: 14808-60-7 EC No: 238-878-4 Registration No: Exempt	Quartz (SiO ₂) (respirable fraction)	>=1% <2.5%	STOT RE 1, H372	STOT RE 2, H373: 1% ≤ C < 10% STOT RE 1, H372: C ≥ 10%

(*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

SECTION 4: FIRST AID MEASURES.

4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eye contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Dont let the person to rub the affected eye.

Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

KGS56SW GL WASSERFALL



REIMBOLD & STRICK

Handels- und Entwicklungsgesellschaft
für chemisch-keramische Produkte mbH

Version 1 Date of compilation: 1/10/2019
Version 2 (replaces version 1)

Revision date: 25/01/2024

Page 3 of 11
Print date: 25/01/2024

4.2 Most important symptoms and effects, both acute and delayed.

Long-term chronic exposure may result in injury to certain organs or tissues. It may cause an allergic reaction in the respiratory system. Chronic exposure can lead to asthma.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Keep the person comfortable. Turn him/her over to the left side and stay there while waiting for medical care.

SECTION 5: FIREFIGHTING MEASURES.

The product is NOT classified as flammable, in case of fire the following measures should be taken:

5.1 Extinguishing media.

Suitable extinguishing media:

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture.

Special risks.

Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Product residues and extinguishing media may contaminate the aquatic environment.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

6.3 Methods and material for containment and cleaning up.

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

SECTION 7: HANDLING AND STORAGE.

7.1 Precautions for safe handling.

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

-Continued on next page.-

SAFETY DATA SHEET

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KGS56SW GL WASSERFALL



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Handels- und Entwicklungsgesellschaft
für chemisch-keramische Produkte mbH

Version 1 Date of compilation: 1/10/2019
Version 2 (replaces version 1)

Revision date: 25/01/2024

Page 4 of 11
Print date: 25/01/2024

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25 ° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorized persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

Code	Description	Qualifying quantity (tonnes) for the application of	
		Lower-tier requirements	Upper-tier requirements
E2	ENVIRONMENTAL HAZARDS - Hazardous to the Aquatic Environment in Category Chronic 2	200	500

7.3 Specific end use(s).

Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Control parameters.

The product does NOT contain substances with Professional Exposure Environmental Limit Values. The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Type	Value
zinc oxide CAS No: 1314-13-2 EC No: 215-222-5	DNEL (Workers)	Inhalation, Chronic, Systemic effects	5 (mg/m ³)
	DNEL (Workers)	Inhalation, Chronic, Local effects	0,5 (mg/m ³)
	DNEL (Workers)	Dermal, Chronic, Systemic effects	83 (mg/kg bw/d)
	DNEL (Consumers)	Inhalation, Chronic, Systemic effects	2,5 (mg/m ³)
	DNEL (Consumers)	Dermal, Chronic, Systemic effects	83 (mg/kg bw/d)
	DNEL (Consumers)	Oral, Chronic, Systemic effects	0,83 (mg/kg bw/d)
tricobalt tetraoxide CAS No: 1308-06-1 EC No: 215-157-2	DNEL (Workers)	Inhalation, Chronic, Local effects	54,5 (µg/m ³)
	DNEL (Consumers)	Inhalation, Chronic, Local effects	8,6 (µg/m ³)
	DNEL (Consumers)	Oral, Chronic, Systemic effects	12 (mg/kg bw/day)

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
zinc oxide CAS No: 1314-13-2 EC No: 215-222-5	Fresh water	20,3 (ug/l)
	Salt water	6,1 (ug/l)
	Dry sediment of fresh water	235,6 (mg/kg)
	Dry sediment of salt water	113 (mg/kg)

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

KGS56SW GL WASSERFALL



REIMBOLD & STRICK

Handels- und Entwicklungsgesellschaft
für chemisch-keramische Produkte mbH

Version 1 Date of compilation: 1/10/2019
Version 2 (replaces version 1)

Revision date: 25/01/2024

Page 5 of 11
Print date: 25/01/2024

tricobalt tetraoxide CAS No: 1308-06-1 EC No: 215-157-2	Soil toxicity	106,8 (mg/kg)
	Micro-organisms in stp toxicity	52 (ug/l)
	Fresh water	0,6 (µg/l)
	Agua de mar	2,36 (µg/l)
	STP	0,37 (mg/l)
	Dry sediment of fresh water	9,5 (mg/kg)
	Dry sediment of salt water	9,5 (mg/kg)
Soil	10,9 (mg/kg)	

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

8.2 Exposure controls.

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %				
Uses:	Ceramic use.				
Breathing protection:					
PPE:	Filter mask for protection against particles.				
Characteristics:	«CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.				
CEN standards:	EN 149				
Maintenance:	The mask must be changed periodically and in any case after every work shift. Never modificate the equipment.				
Observations:	Use when exceeding TLV for one or more substances contained in the mixture.				
Hand protection:					
PPE:	Protective gloves against chemicals.				
Characteristics:	«CE» marking, category III.				
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420				
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.				
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.				
Material:	PVC (polyvinyl chloride)	Breakthrough time (min.):	> 480	Material thickness (mm):	0,35
Eye protection:					
PPE:	Protective goggles against particle impacts.				
Characteristics:	«CE» marking, category II. Eye protector against dust and smoke.				
CEN standards:	EN 165, EN 166, EN 167, EN 168				
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.				
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.				
Skin protection:					
If the product is handled correctly, no individual protection equipment is necessary.					

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

9.1 Information on basic physical and chemical properties.

Physical state: Solid - Dust

Colour: pink

Odour: odourless

Odour threshold: not available

Melting point: not available °C

Freezing point: Not applicable/Not available due to the nature/properties of the product

Boiling point or initial boiling point and boiling range: Not applicable/Not available due to the nature/properties of the product

Flammability: It does not contain chemical groups associated with flammable properties

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

KGS56SW GL WASSERFALL



REIMBOLD & STRICK

Handels- und Entwicklungsgesellschaft
für chemisch-keramische Produkte mbH

Version 1 Date of compilation: 1/10/2019

Version 2 (replaces version 1)

Revision date: 25/01/2024

Page 6 of 11

Print date: 25/01/2024

Lower explosion limit: It does not contain chemical groups associated with flammable properties
Upper explosion limit: It does not contain chemical groups associated with flammable properties
Flash point: Not applicable/Not available due to the nature/properties of the product
Auto-ignition temperature: It does not contain chemical groups associated with flammable properties °C
Decomposition temperature: not available °C
pH: Not applicable due to the nature of the product: solid.
Kinematic viscosity: not applicable due to the nature of the product: solid
Solubility: not available
Hydrosolubility: N/A
Liposolubility: not available
Partition coefficient n-octanol/water (log value): not available
Vapour pressure: not available
Absolute density: Not applicable/Not available due to the nature/properties of the product
Relative density: 3,155 (Estimation based on the indication of the Regulation (CE) N°1272/2008.)
Relative vapour density: not available
Particle characteristics: Not applicable/Not available due to the nature/properties of the product

9.2 Other information

Information with regard to physical hazard classes

Explosives:

: It does not contain chemical groups associated with explosive properties

Oxidizing solids:

: It does not contain chemical groups associated with oxidizing properties

Other safety characteristics

Viscosity: not applicable due to the nature of the product: solid

Dropping point: not applicable

Scintillation Counter: not applicable

SECTION 10: STABILITY AND REACTIVITY.

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

The product does not present possibility of hazardous reactions.

10.4 Conditions to avoid.

Avoid any improper handling.

10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on hazard classes as defined in Regulation (EC) N° 1272/2008.

Toxicological information about the substances present in the composition.

Name	Acute toxicity			
	Type	Test	Kind	Value
zinc oxide	Oral	LD50	Rat	>5000 mg/kg
	Dermal			
	Inhalation	LC50	Rat	>5.7 mg/l (4 h) [1]

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

KGS56SW GL WASSERFALL



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Handels- und Entwicklungsgesellschaft
für chemisch-keramische Produkte mbH

Version 1 Date of compilation: 1/10/2019
Version 2 (replaces version 1)

Revision date: 25/01/2024

Page 7 of 11
Print date: 25/01/2024

CAS No: 1314-13-2	EC No: 215-222-5		[1] Klimisch et al. 1982	
tricobalt tetraoxide	Oral	LD50	Rat > 5000 mg/kg bw [1]	
		[1] Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 1, Pg. 696, 1992.		
	Dermal	LD50	Rat >2000 mg/kg	
CAS No: 1308-06-1	EC No: 215-157-2	Inhalation	LC50	Rat >5.06 mg/l (4h)

a) acute toxicity;

Not conclusive data for classification.

b) skin corrosion/irritation;

Not conclusive data for classification.

c) serious eye damage/irritation;

Not conclusive data for classification.

d) respiratory or skin sensitisation;

Product classified:

Respiratory sensitiser, Category 1: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Not conclusive data for classification.

h) STOT-single exposure;

Not conclusive data for classification.

i) STOT-repeated exposure;

Product classified:

Specific target organ toxicity following a repeated exposure, Category 2: May cause damage to organs through prolonged or repeated exposure.

j) aspiration hazard;

Not conclusive data for classification.

11.2 Information on other hazards.

Endocrine disrupting properties

This product does not contain components with endocrine-disrupting properties with effects on human health.

Other information

There is no information available on other adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION.

12.1 Toxicity.

Name	Ecotoxicity			
	Type	Test	Kind	Value
zinc oxide	Fish	EC50	Daphnia	0.50 mg/l (48 H)
	Aquatic invertebrates			
	Aquatic plants	EC50	selenastrum capricornutum	170 ug/l (72h)

CAS No: 1314-13-2 EC No: 215-222-5

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

KGS56SW GL WASSERFALL



REIMBOLD & STRICK

Handels- und Entwicklungsgesellschaft
für chemisch-keramische Produkte mbH

Version 1 Date of compilation: 1/10/2019
Version 2 (replaces version 1)

Revision date: 25/01/2024

Page 8 of 11
Print date: 25/01/2024

12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.
No information is available on the degradability of the substances present.
No information is available about persistence and degradability of the product.

12.3 Bioaccumulative potential.

No information is available regarding the bioaccumulation of the substances present.

12.4 Mobility in soil.

No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways.
Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

12.7 Other adverse effects.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.
No information is available about other adverse effects for the environment.

SECTION 13: DISPOSAL CONSIDERATIONS.

13.1 Waste treatment methods.

SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

Sea: Transport by ship: IMDG.

Transport documentation: Bill of lading

Air: Transport by plane: ICAO/IATA.

Transport document: Airway bill.

14.1 UN number or ID number.

UN No: UN3077

14.2 UN proper shipping name.

Description:

ADR/RID: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ZINC OXIDE / TRICOBALT TETRAOXIDE), 9, PG III, (-)

IMDG: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ZINC OXIDE / TRICOBALT TETRAOXIDE), 9, PG III, MARINE POLLUTANT

ICAO/IATA: UN 3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS ZINC OXIDE / TRICOBALT TETRAOXIDE), 9, PG III

14.3 Transport hazard class(es).

Class(es): 9

14.4 Packing group.

Packing group: III

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

KGS56SW GL WASSERFALL



REIMBOLD & STRICK

Handels- und Entwicklungsgesellschaft
für chemisch-keramische Produkte mbH

Version 1 Date of compilation: 1/10/2019

Version 2 (replaces version 1)

Revision date: 25/01/2024

Page 9 of 11

Print date: 25/01/2024

14.5 Environmental hazards.

Marine pollutant: Yes



Dangerous for the environment

Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-F

14.6 Special precautions for user.

9



90

VC1 Carriage in bulk in sheeted vehicles, sheeted containers or sheeted bulk containers is permitted.

VC2 Carriage in bulk in closed vehicles, closed containers or closed bulk containers is permitted.

5 kg

5 kg

30 kg B

14.7 Maritime transport in bulk according to IMO instruments.

SECTION 15: REGULATORY INFORMATION.

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

Volatile organic compound (VOC)

VOC content (p/p): 0 %

VOC content: 0 g/l

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

Kind of pollutant to water (Germany): WGK 2: Hazardous to water. (Autoclassified according to the AwSV Regulations)

15.2 Chemical safety assessment.

SECTION 16: OTHER INFORMATION.

This product contain ceramic frit subgroup 1 according:
2009 Validity Assessment of the Exemption Dossier Ceramic Frits, RCC Ltd,
Switzerland, 2007, Harlan Laboratories Ltd, 2009

Industrial Classification system for frits.

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

KGS56SW GL WASSERFALL



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Version 1 Date of compilation: 1/10/2019

Version 2 (replaces version 1)

Revision date: 25/01/2024

Page 10 of 11

Print date: 25/01/2024

The members of the Frit Consortium have agreed on an internal classification system, in order to group the frits in different categories. The criteria followed to develop this system is based on the elements contained in the frit, the information available and the typology of the frit.

For more information, please visit the official web page: <http://fritconsortium.eu>

Complete text of the H phrases that appear in section 3:

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Classification codes:

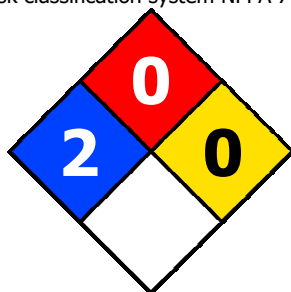
Aquatic Acute 1 : Acute toxicity to the aquatic environment, Category 1
Aquatic Chronic 1 : Chronic effect to the aquatic environment, Category 1
Aquatic Chronic 2 : Chronic effect to the aquatic environment, Category 2
Aquatic Chronic 3 : Chronic effect to the aquatic environment, Category 3
Resp. Sens. 1 : Respiratory sensitiser, Category 1
STOT RE 1 : Specific target organ toxicity following a repeated exposure, Category 1
STOT RE 2 : Specific target organ toxicity following a repeated exposure, Category 2

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Information on the TSCA Inventory (Toxic Substances Control Act) USA:

CAS No	Name	State
1314-13-2	zinc oxide	Registered10
1308-06-1	tricobalt tetraoxide	Registered10
14808-60-7	Quartz (SiO ₂) (respirable fraction)	Registered10

Risk classification system NFPA 704:



Health hazard: 2 (Hazardous)

Flammability: 0 (Will not burn)

Reactivity: 0 (Stable)

Abbreviations and acronyms used:

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AwSV: Facility Regulations for handling substances that are hazardous for the water.

CEN: European Committee for Standardization.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be

-Continued on next page.-

SAFETY DATA SHEET

(in accordance with Regulation (EU) 2020/878)

KGS56SW GL WASSERFALL



REIMBOLD & STRICK

Handels- und Entwicklungsgesellschaft
für chemisch-keramische Produkte mbH

Version 1 **Date of compilation: 1/10/2019**
Version 2 (replaces version 1)

Revision date: 25/01/2024

Page 11 of 11
Print date: 25/01/2024

considered a tolerable minimum.

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

EC50: Half maximal effective concentration.

PPE: Personal protection equipment.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

WGK: Water hazard classes.

