

## Safety Data Sheet

according to UK REACH Regulation

### 213 Zircon

Revision date: 12.12.2022

Product code: c2130\_sd

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

### 1.1. Product identifier

213 Zircon

UFI: 7DD0-2057-1000-3NAA

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

#### Use of the substance/mixture

Product for professional cleaning and maintenance

### 1.3. Details of the supplier of the safety data sheet

Company name: KAW KIEHL KG  
Street: Oskar-von-Miller-Str. 1  
Place: D-85235 Odelzhausen  
Telephone: +49 8134 9305-40      Telefax: +49 8134 5145  
e-mail: info@kiehl-group.com  
Contact person: Laboratory department  
Internet: www.kiehl-group.com  
Responsible Department: Notrufnummer für deutsch- und englischsprachige Länder: +49/89/19240  
Vergiftungsinformationszentrale (VIZ) Österreich: +43 1 406 43 43  
Nationale Notrufnummer für die Schweiz (Tox-Zentrum Zürich): 145  
Numéro d'urgence France: INRS: +33 (0) 1 45 42 59 59  
Numero d' emergenza Italia: Centro Antiveleni - 20162 Milano: 02/66101029  
ETTSZ /Egészségügyi Toxikológiai Tájékoztató Szolgálat/, 1096 Budapest,  
Nagyvárad tér 2. Ügyeleti telefonszám: +36 80 201-199  
Emergency telephone number for all other countries: +49/8134/9305-169

KIEHL Austria GmbH	Perfektastr. 57;	A-1230 Wien	Tel. +43 (0) 1 / 604 99 93
KIEHL FRANCE S.A.R.L.	5, rue de Londres;	F-67670 Mommenheim	Tél. +33 (0) 3.88.59.52.25
KIEHL Italia s.r.l.	Via San Rocco, 101;	I-16036 Recco (GE)	Tel. +39 / 0185 730 008
KIEHL Schweiz AG	St. Dionys-Str. 33;	CH-8645 Jona	Tel. +41 (0) 55 / 254 74 74
KIEHL Hungary Kft.	Felsőipari körút 3/ D	HU-2142 Nagytarcsa	Tel. +36 (0) 1 / 348-08 41
KIEHL Middle East LLC	A8-LIU 48/49 - KIZAD	Abu Dhabi, U.A.E.	Tel. +971 2 550 33 96

**1.4. Emergency telephone number:** +49/89/19240 (germanophone and anglophone)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GB CLP Regulation

Skin Irrit. 2; H315

Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### GB CLP Regulation

**Signal word:** Warning

**Pictograms:**



#### Hazard statements

H319 Causes serious eye irritation.

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H315 Causes skin irritation.

#### Precautionary statements

P280 Wear protective gloves/eye protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

cationic compounds, water-soluble solvents, maintenance substances, solubilizers, dyes, fragrances (Benzyl Benzoat, Benzyl Salicylate, Limonene, Eugenol, Linalool, Hydroxycitronellal, Coumarin)

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
111-76-2	2-Butoxyethanol			5 - < 10 %
	203-905-0		01-2119475108-36	
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H332 H302 H315 H319			
1474044-71-7	1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)			1 - < 5 %
	939-685-4		01-2119983493-26	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412			
67-63-0	Isopropyl alcohol			1 - < 5 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
9004-78-8	Tetraethylene glycolmonophenyl ether			1 - < 5 %
	500-013-6			
	Acute Tox. 4; H302			
541-02-6	Decamethylcyclopentasiloxane			1 - < 5 %
	208-764-9		01-2119511367-43	

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
111-76-2	203-905-0	2-Butoxyethanol	5 - < 10 %
	inhalation: LC50 = 3 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 300 mg/kg; oral: LD50 = 500 mg/kg		
9004-78-8	500-013-6	Tetraethylene glycolmonophenyl ether	1 - < 5 %
	oral: ATE = 500 mg/kg		

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Avoid contact with skin and eyes.

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#### After inhalation

not hazardous by inhalation

#### After contact with skin

Wash off with soap and water.

#### After contact with eyes

Rinse thoroughly with plenty of water, also under the eyelids.

If eye irritation persists, consult a specialist.

#### After ingestion

Clean mouth with water and drink afterwards plenty of water. Prevent vomiting if possible.

Consult a physician.

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

This information is not available.

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

Show this safety data sheet to the doctor in attendance.

### SECTION 5: Firefighting measures

#### **5.1. Extinguishing media**

##### Suitable extinguishing media

Any extinguishing means and measures are acceptable.

#### **5.2. Special hazards arising from the substance or mixture**

This information is not available.

#### **5.3. Advice for firefighters**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

### SECTION 6: Accidental release measures

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### General advice

Avoid contact with skin and eyes.

##### For non-emergency personnel

Use personal protection equipment.

##### For emergency responders

Use personal protection equipment.

#### **6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

#### **6.3. Methods and material for containment and cleaning up**

##### For containment

Stop leak if safe to do so. Cover drains.

Prevent spread over a wide area (e.g. by containment or oil barriers).

##### For cleaning up

Wipe up with absorbent material (e.g. cloth, fleece).

Clean contaminated articles and floor according to the environmental legislation.

##### Other information

Never return spills in original containers for re-use.

#### **6.4. Reference to other sections**

Never return spills in original containers for re-use.

### SECTION 7: Handling and storage

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#### 7.1. Precautions for safe handling

##### Advice on safe handling

Avoid contact with skin and eyes.

##### Advice on protection against fire and explosion

Not required

##### Advice on general occupational hygiene

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Store at room temperature in the original container. Store in a place accessible by authorized persons only.

##### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

##### Further information on storage conditions

Store at room temperature in the original container. Keep container tightly closed. Protect from frost.

#### 7.3. Specific end use(s)

This information is not available.

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
111-76-2	2-Butoxyethanol	25	123		TWA (8 h)	WEL
		50	246		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

##### Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
111-76-2	2-Butoxyethanol	butoxyacetic acid (creatinine)	240 mmol/mol	urine	Post shift

#### 8.2. Exposure controls

##### Appropriate engineering controls

Not required

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Tightly fitting safety goggles

##### Hand protection

Protective gloves

Recommendation: Nitrile gloves with a coating thickness of 0.4 mm which protect at least 8 hours (corresponds to the permeability level 6 of the European norm DIN/EN 374) and provide a resistance to swelling of < 15%.

##### Skin protection

Wear suitable protective clothing.

##### Respiratory protection

Not required

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#### Environmental exposure controls

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid	
Colour:	red brown	
Odour:	pleasant	
Melting point/freezing point:	<0 °C	<b>Test method</b>
Boiling point or initial boiling point and boiling range:	>78 °C	
Flammability		
Solid/liquid:	not applicable	
Gas:	not applicable	
Lower explosion limits:	not applicable	
Upper explosion limits:	not applicable	
Flash point:	>60 °C	
Auto-ignition temperature:	>200 °C	
Decomposition temperature:	not determined	
pH-Value (at 20 °C):	approx. 4,5	K-QP1012C
Viscosity / kinematic:	not determined	
Water solubility: (at 20 °C)	completely miscible	
Solubility in other solvents	not determined	
not determined		
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	not determined	
Density (at 20 °C):	0,98 g/cm <sup>3</sup>	K-QP1012E
Relative vapour density:	not determined	

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

Not explosive

Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

Oxidizing properties

Not relevant

#### Other safety characteristics

Evaporation rate:

not determined

Solid content:

not determined

Sublimation point:

not applicable

Softening point:

not applicable

Pour point:

not applicable

Viscosity / dynamic:

not determined

Flow time:

not determined

## SECTION 10: Stability and reactivity

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#### 10.1. Reactivity

This information is not available.

#### 10.2. Chemical stability

This information is not available.

#### 10.3. Possibility of hazardous reactions

This information is not available.

#### 10.4. Conditions to avoid

Do not expose to temperatures above 35 °C.

#### 10.5. Incompatible materials

This information is not available.

#### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

#### **Further information**

Do not mix with other detergents or chemicals.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

##### **Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
111-76-2	2-Butoxyethanol				
	oral	LD50 mg/kg	500		
	dermal	LD50 mg/kg	300		
	inhalation (4 h) vapour	LC50	3 mg/l		
	inhalation dust/mist	ATE	1,5 mg/l		
9004-78-8	Tetraethylene glycolmonophenyl ether				
	oral	ATE mg/kg	500		

##### **Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

##### **Sensitising effects**

Based on available data, the classification criteria are not met.

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

##### **STOT-single exposure**

Based on available data, the classification criteria are not met.

##### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

##### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

##### **Endocrine disrupting properties**

This information is not available.

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#### Further information

Health injuries are not known or expected under normal use.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Based on available data, the classification criteria are not met.

#### 12.2. Persistence and degradability

Cationic compounds are biodegradable only in high dilution. They are adequate diluted in sewage and become inactive through contact with other waste-water substances. Therefore solutions could be disposed of in the sewerage system.

#### 12.3. Bioaccumulative potential

This information is not available.

#### 12.4. Mobility in soil

The formulation of the product does not contain halogen organic compounds (AOX) or AOX forming halogen compounds.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

This information is not available.

#### Further information

Chemical Oxygen Demand (COD): 888 mg O<sub>2</sub>/g

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Container should be emptied thoroughly.

Do not pour remains of product in large quantities into the sewage.

##### List of Wastes Code - residues/unused products

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

##### List of Wastes Code - used product

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

##### Contaminated packaging

Clean container with water. Return cleaned containers to the company for recycling.

Offer rinsed packaging material to local recycling facilities.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

14.1. UN number or ID number: not applicable

14.2. UN proper shipping name: not applicable

14.3. Transport hazard class(es): not applicable

14.4. Packing group: not applicable

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

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#### **14.6. Special precautions for user**

Not required

#### **14.7. Maritime transport in bulk according to IMO instruments**

not applicable

#### **Other applicable information**

Not classified as dangerous in the meaning of transport regulations.

### SECTION 15: Regulatory information

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

##### **EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

Decamethylcyclopentasiloxane

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 70, Entry 75

##### **National regulatory information**

Water hazard class (D):

2 - obviously hazardous to water

#### **15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### **Changes**

This data sheet contains changes from the previous version in section(s): 3 / 6 / 7 / 8 / 12

#### **Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative



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RID: Regulations concerning the international carriage of dangerous goods by rail  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
 intérieures)  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method

#### Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*