

## Material Safety Data Sheet

According to 1907/2006/EG, Article 31 and 2020/878/EU  
Revision date: 13.10.2022 version number 3 (replaces version 2.2) dated: 31.01.2021

### SECTION 1: Identification of the substance or mixture and the company

1.1 Product identification: Chalk Powder RED

1.2 Use of the preparation: Coloured powder for chalk line roller and marking line

1.3 Details of the supplier providing the safety data sheet

Manufacturer/Supplier:

Carl Kammerling International Ltd

CK House, Glan y Don Industrial Estate, Pwllheli, LL53 5LH

Tel.: +44(0)1758 701070

Fax.: +44(0)1758 704777

<http://www.carlkammerling.com>

E-mail: [Sales@cki.uk.com](mailto:Sales@cki.uk.com)

Information department:

Technical support

(Mo-Fri. 9:00-17:00)

Tel.: +44(0)1758 701070

E-mail: [Sales@cki.uk.com](mailto:Sales@cki.uk.com)

1.4 Emergency number:

+44(0)1758 701070

### SECTION 2: Hazards identification

2.1 Classification of the substance or preparation:

Classification according to Regulation (EC) N°1272/2008 [CLP]

The product is not classified under the CLP regulation.

Classification according to 67/548/EEC or 199/45/EC

Not rated.

2.2 Labelling elements:

Labelling according to (EC) N°1272/2008 [CLP]: None

Hazard Identification: None

Safety Instructions: None

Critical components for marking

Hazard Statements: None

Labelling according to 67/548/ECC or 199/45/EC

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

VPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable.

3.2 Preparation:

Calcium carbonate CAS N°: 474-34-1, EC n° 207-439-9 > 50%

Pigment Blue 29, Sodium Aluminum Sulfosilicate, CI 77007, Alternative CAS N°: 57455-37-5,

CAS N°: 101357-30-5, EC N°: 309-928-3,

REACH Ref: 01-2119488928-13.

### SECTION 4: First aid measures

Inhalation: Breathe fresh air. If breathing problems persist, call an ambulance.

Skin irritation: Change contaminated work clothing. Wash the affected skin area with water only. If redness persists, consult a doctor.

Eye irritation: Flush eyes with water only, including under the eyelids. If symptoms persist, consult a doctor.

## Material Safety Data Sheet

According to 1907/2006/EG, Article 31 and 2020/878/EU  
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Accidental ingestion: drink water. Consult a doctor in case of signs of illness.  
Self-protection of the rescuer: No special precautions are necessary  
4.2 Most important symptoms and effects, both acute and delayed  
No specific symptoms or effects have been reported  
4.3 Indications of immediate medical attention or special treatment  
Not relevant

### SECTION 5: Firefighting measures

5.1 Suitable extinguishing media:  
The product is non-flammable. No special firefighting measures are required.  
5.2 Special hazards arising from the mixture:  
Nitrogen gas / vapor / Formation of toxic fumes of carbon dioxide at temperatures above 600°C.  
5.3. Special protective equipment for firefighting:  
Protective measures in case of fire: Do not enter the fire area without protective equipment and breathing apparatus.  
Special Procedures: Act cautiously when in contact with a chemical fire.  
Avoid firefighting effluents which may contaminate the surrounding area.

### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures  
Use personal protective equipment  
Respiratory protection: In case of dust protective mask type P1 or P3 (European standard 143).  
Hand protection: Wear gloves (PVC, neoprene, natural rubber).  
Eye Protection: Wear chemical resistant goggles.  
Skin and body protection: protective clothing.  
Avoid dust formation. Do not breathe dust.  
6.2 Environmental Precautions  
Avoid entering sewers and the public network. Notify local authorities if significant spills cannot be contained.  
6.3 Methods and material for containment and cleaning up  
Pick up waste without generating dust.  
Contain and absorb the spilled liquid with sand or other absorbent material.  
Keep the container closed.  
Manage the recovered material as described under "Disposal Considerations".  
Keep away from acids.  
6.4 Reference to Other Sections  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protective equipment.  
Information on disposal, see section 13.

### SECTION 7: Handling and storage

7.1 Precautions for safe handling  
Protective measures:  
Don't breathe the dust.  
Avoid the development of dust.  
Avoid direct contact with skin, eyes and clothing.  
Use mainly in ventilated areas.  
Store away from incompatible substances.  
  
Hygiene measures and work practices:  
Use as directed and comply with industrial hygiene and protection measures.  
Do not eat, drink or smoke during working hours.  
Wash hands after use.  
Before entering the work area, remove contaminated clothing and protective suits.  
  
7.2. Protective measures for safe storage, taking into account any incompatibilities  
Technical measures / storage conditions:  
Store in the original container and in a dry place.  
Store in covered storage containers.

## Material Safety Data Sheet

According to 1907/2006/EG, Article 31 and 2020/878/EU  
Revision date: 13.10.2022 version number 3 (replaces version 2.2) dated: 31.01.2021

Storage Temperature: 0-50°C.  
Substances to avoid: strong acids and bases.

### 7.3. Certain Uses

No information available.ne further relevant information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Parameters to monitor

Exposure Limits:

- Calcium carbonate:

Limit values in the air:

Concerning the regulations for dust.

The correct specification of the limit values can be found in Appendix 1 of this sheet.

Limited biological values:

No

DNELs:

Workers				
Routes of exposure	Acute local effects	Acute systemic effects	Chronic local effects	Chronic systemic effects
Oral	Not required			
Inhalation	No hazard identified	No hazard identified	No hazard identified	10mg/m3
Dermal	Sonstige Gefahren sind nicht bekannt			

Consumers				
Routes of exposure	Acute local effects	Acute systemic effects	Chronic local effects	Chronic systemic effects
Oral	No hazard identified	6,1mg/kg bw/Tag	No hazard identified	6,1mg/kg bw/Tag
Inhalation	No hazard identified	No hazard identified	No hazard identified	10mg/m3
Dermal	Sonstige Gefahren sind nicht bekannt			

Umweltschutzziele	PNEC	Bemerkungen
Water	No hazard identified	Not acutely toxic to fish, invertebrates, algae and microorganisms at the concentrations tested in the studies. Acute toxicity to fish, invertebrates, algae and microorganisms is greater than the highest concentration tested and therefore exceeds the maximum solubility of calcium carbonate in water.
Sediments	No hazard identified	Calcium carbonate and calcium and carbonate ions are ubiquitous in the environment and are found naturally in soil, water and sediment. Sediments naturally contain a high concentration of calcium and carbonate due to the physical and/or chemical weathering of calcium-rich rocks that takes place in the environment. Calcium will be assimilated by species residing in the sediment and is necessary to maintain a good chemical balance in soils, water and sediment. The carbonate will become part of the carbon cycle and is then cycled throughout the biosphere. Due to the natural occurrence of calcium carbonate in the environment, it is expected that calcium carbonate would not be toxic to sediment organisms.
Micro organisms in Sewerage treatment	10mg/L	NOEC; AF=10
Soil (agricultural)	No hazard identified	Not acutely toxic to earthworms, plants (soya, tomato and oat) and soil microorganisms at the concentrations tested in the studies. Acute toxicity to earthworms, plants and soil microorganisms is greater than highest concentrations tested and therefore exceeds the maximum solubility of calcium carbonate in water.
Air	No hazard identified	

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According to 1907/2006/EG, Article 31 and 2020/878/EU  
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Sodium – Aluminum Sulfosilicate:

Occupational Exposure Limits: TLV: 15mg/m<sup>3</sup> (total dust)

Occupational exposure levels have not been defined for this product.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Reduce the formation of dust in the air. Closed process apparatus as well as local

Use exhaust ventilation or other engineering controls to keep suspended levels below exposure limits. Organizational measures must be introduced, e.g. to separate staff from the zones with large keep dust concentration away. Take off the dirty clothes.

#### 8.2.2 Personal Protection Measures



Hand protection: Wear gloves (made of PVC, neoprene or natural rubber).

Skin protection: Wear a protective suit.

Eye Protection Measures: Wear chemical goggles.

Respiratory protection: in case of dust, use a dust mask model P1 or P3 (EU Rule 143).

#### 8.2.3 Monitoring of environmental exposure

Dispose of waste water in accordance with local and national regulations.

## SECTION 9: Physical and chemical properties

Form: Fine powder

Colour blue

Odour: Not applicable

pH: (20°C): 7-9

Melting point: decomposes to 450 without melting

Auto-ignition temperature: non-flammable

Explosion hazard: None

Solubility in water (20°C and g/l): insoluble.

### 9.2. Other information

None

## SECTION 10: Stability and reactivity

10.1. Reactivity: Stable reactivity in the recommended handling and storage conditions.

10.2. Chemical stability Contact with acids or exposure to high temperatures may produce carbon dioxide Emissions, even sometimes strong emissions, arise.

10.3. Possibility of hazardous reactions Contact with acids causes carbon dioxide emissions, sometimes even heavy emissions.

10.4. Conditions to avoid Carbon dioxide emissions due to high temperature exposure or due to contact with acids. At temperatures above 400°C, evolution of sulfur dioxide (SO<sub>2</sub>) gas may occur.

10.5. Incompatible materials Strong acid, strong bases.

10.6 Hazardous decomposition products Reacts readily on contact with acids, evolving carbon dioxide and displacing oxygen in the air in confined spaces.

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According to 1907/2006/EG, Article 31 and 2020/878/EU  
Revision date: 13.10.2022 version number 3 (replaces version 2.2) dated: 31.01.2021

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

- calcium carbonate

Relevant hazard class	Effect dose	Species	Method	Remark
Acute oral toxicity	LD 50 > 2000 mg/kg bw.	Rat	OECD 420	
Acute dermal toxicity	LD 50 > 2000 mg/kg bw.	Rat	OECD 402	
Acute inhalative toxicity	LC 50 (4h) > 3 mg/L air bw.	Rat	OECD 403	
Skin corrosion/irritation	Not applicable	Rabbit	OECD 404	Not irritating
Serious eye damage / irritation	Not applicable	Rabbit	OECD 405	Not irritating
Respiratory or skin sensitivity	Not applicable	Mouse	OECD 429	Not a skin sensitizer
Germ cell mutagenicity	Not applicable	In vitro tests	OECD 471 OECD 476 OECD 473	Not mutagenic
Carcinogenicity	Not applicable			No indication of carcinogenicity
Reproductive toxicity	NOEL (parental) 1000 mg/kg bw/day	Rat	OECD 422	No signs of reproductive or developmental toxicity observed
STOT, single exposure	Not applicable			No organ toxicity observed in acute tests
STOT, repeat exposure				No organ toxicity observed in repeated dose toxicity tests
Aspiration hazard				No aspiration hazard envisaged

- Sodium aluminum silicate

Ingestion: Based on the available data, no classification criteria are found.

LD50 (oral, rat) > 10,000 mg/kg

Irritation: non-irritating.

Mutagenicity: There is no experimental or epidemiological evidence.

Carcinogenicity: There is no experimental or epidemiological evidence.

Reproductive toxicity: There is no experimental or epidemiological evidence.

Specific target of single exposure to organ toxicity (STOT): There is no experimental or epidemiological evidence.

11.2 Toxicological information It could cause respiratory irritation. It could cause eye irritation. None of the ingredients are included.

### SECTION 12: Ecological information

Calcium carbonate

Aquatic toxicity	Effect dose	Exposure time	Species	Method	Evaluation	Remark
Acute fish toxicity	LC 50 > 100% v/v saturated solution of test material	96 h	<i>Oncorhynchus mykiss</i>	OECD 203	Exceeds maximum solubility substance	Limit test
Acute daphnia toxicity	LC 50 > 100% v/v saturated solution of test material	48 h	<i>Daphnia magna</i>	OECD 202	Exceeds maximum solubility substance	Limit test
Acute algae toxicity	EC 50 > 14mg/L NOEC 14 mg/L	72 h	<i>Desmodesmus subspicatus</i>	OECD 201	Exceeds maximum solubility substance	Limit test
Toxicity to STP microorganisms	EC 50 > 1000 mg/L NOEC 1000 mg/L	3 h	<i>Activated sewage sludge</i>	OECD 209	Not toxic	

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According to 1907/2006/EG, Article 31 and 2020/878/EU  
Revision date: 13.10.2022 version number 3 (replaces version 2.2) dated: 31.01.2021

Acute earthworm toxicity	LC 50 > 1000 mg/kg dry soil NOEC 1000 mg/kg dry soil	14 d	<i>Eisenia fetida</i>	OECD 207	Not acutely toxic	Limit test
Toxicity to plants	EC 50 > 1000 mg/L dry soil NOEC 1000 mg/L dry soil	21 d	<i>Glycine max (soybean)</i> <i>Lycopersicon esculentum (tomato)</i> <i>Avena sativa (oats)</i>	OECD 208	Not acutely toxic	Results based on seedling emergence & growth
Toxicity to soil microorganisms	EC 50 > 1000 mg/kg dry soil NOEC 1000 mg/L dry soil	28 d	Soil microorganisms	OECD 216	Not toxic	Limit test

Sodium – aluminum sulfosilicate: Acute Toxicity LC50 96h- fish > 32000Mg/l.

12.2. Persistence and degradability Not applicable

12.3. Bioaccumulative potential Not applicable

12.4 Mobility in soil Not applicable

12.5. Environmentally harmful effects

Results of the PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

12.6. Other adverse effects No further relevant information available

### SECTION 13: Disposal considerations

13.1. Methods of treating the waste

Waste key / waste designation according to EWC:

The waste codes must be assigned by the user based on the application of the substance.

The waste must be managed in accordance with local and national legislation.

Waste can be landfilled if it complies with local regulations.

Disposal according to European guidelines.

Packing treatment:

Dispose of in accordance with current legislation.

### SECTION 14: Transport information

**14.1 Land transport (ADR-RID) General information: not regulated**

**14.2 Maritime transport (IMDG) General information: not regulated**

**14.3 Air transport (IACO-IATA) General information: not regulated**

### SECTION 15: Regulatory information

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

Labeling (Regulation (EC) No. 1272/2008 and Directive 67/548/EEC):

This substance is not labeled under EU legislation

15.2 Chemical Safety Assessment

No studies were found.

### SECTION 16: Other information

**Abbreviations and acronyms:**

AF rating factor

BCF bioconcentration factor

DMEL Limit value at which the substance has no effect.

DNEL limit below which the substance has no effect.

EC50 Effective Concentration 50%

LC50 Lethal Concentration 50%

NOAEL Dose at which no adverse health effects were observed.

NOEC Highest dose with no adverse effect.

## Material Safety Data Sheet

According to 1907/2006/EG, Article 31 and 2020/878/EU  
Revision date: 13.10.2022 version number 3 (replaces version 2.2) dated: 31.01.2021

NOEL dose with no effect.  
OEM User exposure level  
PBT Persistent, Bioaccumulative, Toxic.  
PEC Predicted environmental concentration.  
PNEC Estimated No Effect Concentration  
SDS safety data sheet  
STOT specific target organ toxicity  
STP sewage treatment plant  
vPvB Very persistent, very bioaccumulative.  
BW body weight

Sections updated: Written in accordance with Regulation (EC) No. 1907/2006, Article 31.

The information in this Safety Data Sheet is intended as a guide for safe Use, storage and handling of the product.

The information contained therein is up to date and up to date release date based. However, no express or implied

Guarantee or representation as to the accuracy or completeness of the information given in this safety data sheet.

This information relates solely to the specified material and does not apply to

Material combinations used with other materials or processes.

Their application does not preclude compliance with applicable legislation.

The use of this information and the conditions of use of the product are under the sole responsibility of the user.

Information sources: the safety data sheet of our suppliers.

### - Calcium carbonate

#### Annex 1

<b>Occupational exposure limits in mg/m<sup>3</sup> 8 hours TWA dust</b>		
Member state	Non specified (inert dust) INHALABLE	Non specified (inert dust) RESPIRABLE
Austria	15	6
Belgium	10	3
Bulgaria		4
Denmark	10	5
Finland	10	7
France	10	5
Germany	10	3
Greece	10	5
Ireland	10	4
Italy	10	3
Lithuania		10
Luxemburg	10	5
Netherland	10	5
Norway	10	5
Portugal	10	5
Romania		10
Slovakia	10	
Spain	10	3
Sweden		5
Switzerland		6
UK	10	4