RED MARKING CHALK POWDER

Version number: 1
Issued: 2024-12-10

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

1.1. Product identifier

Trade name

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

Relevant identified uses

Marking chalk powder.

1.3. Details of the supplier of the safety data sheet

Supplier

Hultafors Group AB

Address
Hultaforsvägen 21
517 96 Hultafors
Sweden

Telephone
+46 33 7237400

Email
info@hultaforsgroup.com

1.4. Emergency telephone number

112

Available outside office hours

Yes

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous according to Regulation (EC) No 1272/2008.

2.2. Label elements

The product does not require labelling in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.
The product does not contain any substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Calcium Carbonate	471-34-1 207-439-9 - -	>50%	-	- - -	-
Red iron oxide	1309-37-1 215-168-2 01-2119457614-35-0043 -	<50%	-	- - -	-

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Fresh air and rest. If symptoms persist, call a physician.

Skin contact

Take off contaminated clothing. Wash with plenty of water. Get medical attention if symptoms occur.

Eye contact

Rinse cautiously with water for several minutes. Hold eyelids apart. If eye irritation persists, consult a specialist.

Ingestion

Immediately give large quantities of water to drink. If symptoms persist, call a physician.

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

No specific symptoms noted.

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

Not applicable.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product is not flammable. Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

Asphyxiating gases/vapours/fumes of: Carbon dioxide (CO_2) at temperature > 600 °C.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Do not enter fire area without proper protective equipment, including respiratory protection.

Measures in case of fire

Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.
In case of dust, dust mask type P1 or P3.
Wear protective gloves.
Chemical resistant goggles must be worn.
Suitable protective suit.

Avoid dust formation. Do not breathe dust.

6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Pick-up and arrange disposal without creating dust.
Dam and absorb spillage with sand, sawdust or other absorbent.
Keep in properly labelled containers.
Keep container tightly closed.
Treat recovered material as described in the section "Disposal considerations".
Flush with plenty of water.
Keep away from: Acids.

6.4. Reference to other sections

For personal protection, see section 8.
For waste disposal, see section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Do not breathe dust.
Avoid dust formation.
Avoid contact with skin, eyes and clothing.
Use only in well-ventilated areas.
Keep away from incompatible materials.

General hygiene

Handle in accordance with good industrial hygiene and safety practice.
Do not eat, drink or smoke in the working area.
Wash hands thoroughly after handling.
Remove contaminated clothing and protective equipment before entering eating areas.
Wash contaminated clothing prior to re-use.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container in a cool, well-ventilated place.
Keep container tightly closed.
Storage temperature: 0-50 °C.
Store away from: Strong acids. Strong alkalis.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Calcium Carbonate (471-34-1/207-439-9)	DNEL	Chronic (long term) Inhalation	10 mg/m³	Workers	Local
Calcium Carbonate (471-34-1/207-439-9)	DNEL	Chronic (long term) Oral	6.1 mg/kg bw/day	Consumer	Systemic
Calcium Carbonate (471-34-1/207-439-9)	DNEL	Acute (short term) Oral	6.1 mg/kg bw/day	Consumer	Systemic
Calcium Carbonate (471-34-1/207-439-9)	DNEL	Chronic (long term) Inhalation	10 mg/m³	Workers	Local

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
Calcium Carbonate (471-34-1/207-439-9)	PNEC	Sewage Treatment Plant	10 mg/l

8.2. Exposure controls

Appropriate engineering controls

Minimize dust generation. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Apply organizational measures e.g. by isolating personnel from dusty areas.

Personal Protective Equipment Symbols

Eye / face protection

Chemical resistant goggles must be worn.

Hand protection

Wear suitable gloves tested to EN 374.
Recommended material: solvent-resistant gloves (butylrubber)
Thickness of the glove material: 0.7 mm
Breakthrough time: 480 min

Other skin protection

Protection suit must be worn.

Respiratory protection

Wear dust masks in dusty areas.
Filter type: P1/P3 (EN 143)

Thermal hazards

No information available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Solid – Dusty

Colour
Red

Odour
Odourless

Melting point / freezing point
Decomposes without melting.

Boiling point or initial boiling point and boiling range
No data available

Flammability
Not flammable.

Lower and upper explosion limit
No data available

Flash point
No data available

Auto-ignition temperature
Not flammable.

Decomposition temperature
> 450 °C

pH
No data available

Kinematic viscosity
No data available

Solubility
Insoluble in water.

Partition coefficient n-octanol/water
No data available

Vapour pressure
No data available

Density and/or relative density
No data available

Relative vapour density
No data available

Particle characteristics
No information available.

9.2. Other information
No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under recommended storage conditions.

10.2. Chemical stability
Contact with acids or strong heating liberates carbon dioxide, sometimes violently.

10.3. Possibility of hazardous reactions
Contact with acids liberates carbon dioxide, sometimes violently. Reacts with strong oxidising agents.

10.4. Conditions to avoid
Avoid contact with oxidising agents. Avoid excessive heat.

10.5. Incompatible materials
Incompatible with strong acids and bases.

10.6. Hazardous decomposition products
Reacts with acids to form carbon dioxide which displaces the oxygen in the air in closed spaces.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity
Based on available data, the classification criteria are not met.
Red iron oxide: No cumulative effects reported.

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
Calcium Carbonate 471-34-1 / 207-439-9	LD50	>2000 mg/kg bw	Oral	-	Rat	OECD 420

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
Calcium Carbonate 471-34-1 / 207-439-9	LD50	> 2000 mg/kg bw	Dermal	-	Rat	OECD 402
Calcium Carbonate 471-34-1 / 207-439-9	LC50	> 3 mg/L air bw	Inhalation	4 hours	Rat	OECD 403

Skin corrosion/irritation
Based on available data, the classification criteria are not met.

Calcium carbonate:
Dermal, skin/rabbit: Not irritating, method OECD 404.

Red iron oxide:
May cause irritation.

Serious eye damage/irritation
Based on available data, the classification criteria are not met.

Calcium carbonate:
Eye/rabbit: Not irritating, method OECD 405.

Red iron oxide:
May cause irritation.

Respiratory or skin sensitisation
Based on available data, the classification criteria are not met.

Calcium carbonate:
Mouse, dermal. Not sensitising. OECD 429.

Red iron oxide:
May cause sensitization by inhalation and skin contact.

Germ cell mutagenicity
May cause sensitization by inhalation and skin contact.

Calcium carbonate:
Genotoxicity - in vitro: Not mutagenic (OECD 471, 476, 473).

Red iron oxide:
Not mutagenic

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

Red iron oxide:
Not carcinogenic

Reproductive toxicity
Based on available data, the classification criteria are not met.
Calcium carbonate:
NOEL, rat = 1000 mg/kg bw/day

Red iron oxide:
Not tetratogenic

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.

Symptoms related to the physical, chemical and toxicological characteristics
May cause irritation to respiratory airways and coughing.
Contact with eyes may cause irritation.

11.2. Information on other hazards

Endocrine disrupting properties
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information
No data available.

SECTION 12: Ecological information

12.1. Toxicity

Soil
Calcium carbonate:
Toxicity to plants: EC50 > 1000 mg/kg soil dw
21 days
Glicine max, Lycopersicon esculentum, Avena sativa, OECD 208

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
Calcium Carbonate 471-34-1 / 207-439-9	LC50	> 100 % v/v saturated solution of test material	96 hours	Oncorhynchus mykiss (Rainbow trout)	OECD 203	Limit test

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
Calcium Carbonate 471-34-1 / 207-439-9	EC50	> 14 mg/l	72 hours	Desmodesmus subspicatus	OECD 201	Limit test

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline	Remark
Calcium Carbonate 471-34-1 / 207-439-9	LC50	> 100 % v/v saturated solution of test material	48 hours	Daphnia magna	OECD 202	Limit test

Micro-/macro organism toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Endpoint of the test	Species	Method / Guideline
Calcium carbonate 471-34-1 /207-439-9	LC50	> 1000 mg/kg soil dw	14 days	Acute earthworm toxicity	Eisenia fetida	OECD 207
Calcium carbonate 471-34-1 / 207-439-9	EC50	> 1000 mg/kg soil dw	28 days	Limit test	Soil Microorganisms	OECD 216
Calcium carbonate 471-34-1 / 207-	EC50	>1000 mg/l	3h	Limit test	Activated sewage sludge	OECD 209

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Endpoint of the test	Species	Method / Guideline
439-9						

12.2. Persistence and degradability
Not applicable.

12.3. Bioaccumulative potential
Not applicable.

12.4. Mobility in soil
Mobility
Not applicable.

12.5. Results of PBT and vPvB assessment
Not applicable.

12.6. Endocrine disrupting properties
According to the criteria of the European classification and labelling system, substance does not require classification as hazardous for environment.

12.7. Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Disposal considerations
Disposal of waste must take place in accordance with national, regional and local regulations.
Can be landfilled, when in compliance with local regulations.
Dispose of in accordance with the European Directives on waste and hazardous waste.

Packaging
Empty containers.
Dispose of as unused product.

Other
Waste codes should be assigned by the user based on the application for which the product was used.

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SECTION 14: Transport information

14.1. UN number
Not dangerous goods according to transport regulations.

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
Not applicable

14.6. Special precautions for user
Not applicable

14.7. Maritime transport in bulk according to IMO instruments
Not applicable

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP).
Directive 2008/98/EC of the European Parliament and of the Council on waste.

National regulations

No data available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations

DNEL: Derived No Effect Level.
EC50: The concentration of a substance that affects 50 % of a population over a given period of time.
LC50: Deadly concentration for 50 % of a test population.
LD50: Lethal dose for 50 % of the test population (lethal median dose).
NOEC: No Observed Effect Concentration.
PBT: Persistent, Bioaccumulative and Toxic.
PNEC: Predicted no effect concentration.
STOT: Specific Target Organ Toxicity
vPvB: very Persistent and very Bioaccumulative.

Other

Additional information

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.