

WHITE MARKING CHALK POWDER



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

1.1. Product identifier

Trade name

WHITE MARKING CHALK POWDER

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.

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Product based on

Calcium carbonate CAS number 471-439-9, EC number 207-439-9

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 (CO₂) at temperature > 600 °C.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

No special precautions required.



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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

No special environmental measures are necessary.

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.

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.

Advice on protection against fire and explosion: No special precautions required.

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.



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7.2. Conditions for safe storage, including any incompatibilities

Store in a dry place.
Keep in covered storage tank.
Keep container tightly closed.

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/m ³	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/m ³	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.

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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

White

Odour

Odourless

Melting point / freezing point

Decomposes without melting.

Boiling point or initial boiling point and boiling range

No data available

Flammability

Not flammable.

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Lower and upper explosion limit

No data available

Flash point

No data available

Auto-ignition temperature

> 450 °C

Decomposition temperature

No data available

pH

9 (in suspension at 10% water)

Kinematic viscosity

No data available

Solubility

0.0166 g/L water at 20°C

Partition coefficient n-octanol/water

No data available

Vapour pressure

No data available

Density and/or relative density

2.7 - 2.95

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.



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10.3. Possibility of hazardous reactions

Contact with acids liberates carbon dioxide, sometimes violently.

10.4. Conditions to avoid

Avoid excessive heat. Avoid contact with acids.

10.5. Incompatible materials

Acids.

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.

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
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
Orange fluorescent -	LD50	10 000 mg/kg	-	-	Rat	-

Skin corrosion/irritation

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

Calcium carbonate:

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

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Serious eye damage/irritation

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

Calcium carbonate:

Eye/rabbit: Not irritating, method OECD 405.

Respiratory or skin sensitisation

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

Calcium carbonate:

Mouse, dermal. Not sensitising. OECD 429.

Germ cell mutagenicity

May cause sensitization by inhalation and skin contact.

Calcium carbonate:

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

Carcinogenicity

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

Reproductive toxicity

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

Calcium carbonate:

NOEL, rat = 1000 mg/kg bw/day

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 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.

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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

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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	EC50	>1000 mg/l	3h	Limit test	Activated sewage sludge	OECD 209
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 /207-439-9	LC50	> 1000 mg/kg soil dw	14 days	Acute earthworm toxicity	Eisenia fetida	OECD 207

12.2. Persistence and degradability

The substance is inorganic and therefore will not undergo abiotic degradation or biodegradation.

12.3. Bioaccumulative potential

Bioaccumulation is not expected.

12.4. Mobility in soil

Mobility

Not applicable.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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.



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Packaging

Empty containers.

Dispose of as unused product.

Contaminated packaging must be emptied as far as possible, they can then be reused after proper cleaning.

Other

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

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

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15.2. Chemical safety assessment

Calcium carbonate (natural) is exempted from REACH registration and thus no formal chemical safety assessment has been carried out for this substance by the supplier. However, calcium carbonate (precipitated) is regarded as the same substance as calcium carbonate natural and calcium carbonate (precipitated) has been registered. Data from registration dossiers are disseminated on ECHA website (www.echa.europa.eu).

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.