



SAFETY DATA SHEET

CALCIUM CARBONATE

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

1.1. PRODUCT IDENTIFIER

Product name: Calcium Carbonate
Product No.: CACA
CAS-No.: 471-34-1
EC No.: 207-439-9
REACH: 01-2119486795-18
Synonym: Pulverised limestone, chalk, calcite, french chalk, whiting
Chemical Formula: CaCO_3

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Recommended use: Manufacture of lime and cement;
Purification of Iron from iron ore in a blast furnace;
Filtercake agent in drilling industry;
Added to drilling fluids to increase their density;
An extender in paints;
As a filler & extender in plastics industry;
Used in the manufacture of disposable nappies;
Manufacture of fillers, putty, adhesives and sealants;
Whiting in ceramics;
Manufacture of glass;
Used in the manufacture of paper;
pH corrector for alkalinity in swimming pools;
Manufacture of blackboard chalk;
As an abrasive in scouring creams and scouring powders;
In fertilisers as a source of calcium and stabilising soil acidity;
As passive fire protection in hazardous environments;
Source of alkalinity used for flue gas desulphurisation in power stations.



1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

HD Chemicals LTD
UNIT 9 Scott Business Park
PL2 2PB Plymouth UK

Contact Person responsible for SDS: Mr Peter Konefal, e-mail: contact@hdchemicals.co.uk

SECTION 2: HAZARDS IDENTIFICATION

2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification 67/548/EEC: Not classified

Classification – EC 1272/2008: Not classified

2.2. LABEL ELEMENTS

None

SIGNAL WORDS

Not classified

RISK PHRASES

Not classified

HAZARD PHRASES

Not classified

PROTECTION PHRASES

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

SAFETY PHRASES

Not classified

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

67/548/EEC/1999/45/EC

Composition information – main constituents

Substance name	Mol. Formula	REACH	EINECS No.	CAS-No.	Classification
Calcium Carbonate	CaCO ₃	01-2119486795-18	207-439-9	471-34-1	Not classified

EC 1272/2008

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SECTION 4: FIRST AID MEASURES**4.1. DESCRIPTION OF FIRST AID MEASURES**

First-aid measures general: Consult a physician when you feel unwell. Show this safety data sheet to the doctor in attendance.

Inhalation: If exposed to excessive levels, remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Do not induce vomiting. Get medical attention if any discomfort continues.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician if irritation persists after washing.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation persists.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Coughing and shortness of breath.



Ingestion: May cause indigestion. There may be irritation of the throat.
Skin contact: There may be mild irritation at the site of contact.
Eye contact: May cause irritation and redness of the eyes.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. EXTINGUISHING MEDIA

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Adjust extinguishing media to the surrounding fire. Use dry powder, carbon dioxide, water spray, sand or alcohol-resistant foam.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

The product is non-combustible but thermal decomposition can lead to release of irritating gases and vapours. May evolve carbon dioxide (CO₂) and carbon monoxide (CO).

5.3. ADVICE FOR FIRE-FIGHTERS

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear suitable protective equipment (splash goggles, protective suit, boots, gloves and self-contained breathing apparatus) to prevent any contamination of skin, eyes and personal clothing. Ensure adequate ventilation of the working area. Avoid contact with skin and eyes. Avoid breathing vapours, mist or gas. Avoid formation of dust. Keep unprotected persons away. Evacuate personnel to a safe area.

For personal protection see section 8.1.

6.2. ENVIRONMENTAL PRECAUTIONS

Should not be released into the environment. Keep away from drains, surface and ground water. Do not allow to enter into soil/subsoil. Prevent further leakage or spillage if safe to do so. Use appropriate container to avoid environmental contamination.



6.3. METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Sweep or shovel spills into appropriate container for disposal. Avoid dust production. Wash the spillage site with large amounts of water.

SECTION 7: HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING

Handle in accordance with good industrial hygiene and safety practice. Avoid formation of dust. Do not inhale dust/smoke/mist. Ensure adequate ventilation of the working area. Wear personal protective equipment. Avoid contact with eyes and skin. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products. Remove contaminated clothing and shoes. Wash clothing before re-using. Avoid the formation or spread of mists in the air.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Keep in a cool, dry, well ventilated area. Keep in original tightly closed containers. Keep away from food, drink and animal feeding stuffs. Avoid contact with water, humidity and heat. Do not store near acids. Avoid dust formation.

7.3. SPECIFIC END USE(S)

See section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS/EXPOSURE GUIDELINES

Occupational Exposure Limit Values (Calcium Carbonate):

CAS NO	Exposure limit	Value	Name of Agent
471-34-1	TWA – 8 Hrs	10 mg/m ³	Inhalation
471-34-1	STEL – 15 Min	No data available	No data available

Engineering controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands before breaks and at the end of the working day.



EYE PROTECTION



FACE SHIELD



RESPIRATOR



PROTECTION WEAR



HAND PROTECTION

- Protective equipment:** Use protective tightly fitting safety goggle (European standard - EN 166), face shield, gloves (European standard - EN 374) and long sleeved clothing to prevent skin, body and eyes exposure.
- Respiratory equipment:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respiratory protection necessary at dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).
- Skin and body protection:** Wear appropriate protective gloves and clothing to prevent skin exposure. Wear impervious protective clothing; including long sleeved shirt and pants, boots, lab coat, apron or coveralls, as appropriate, to minimize skin contact. Wear appropriate protective work gloves when handling material to prevent skin contact. The glove material has to be impermeable and resistant to the product: Nitrile rubber. Protective gloves should be replaced at first signs of wear. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Wash and dry hands.
- Eye/Face protection:** Safety glasses with side shields or goggles.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder
Colour:	White
Odour:	Odourless



Initial boiling point (°C):	No data available
Melting point (°C):	825 °C
Freezing point:	No data available
Relative density:	2.83 g/cm ³
Specific gravity / density:	Not available
Vapour density:	Not available
Vapour pressure:	Not available
Flash point (°C):	Not available
Molecular mass:	100.09 g/mol
Auto-ignition temperature:	Not applicable
Oxidizing properties:	Not available
Decomposition temperature:	Not available
Molecular formula:	CaCO ₃

SECTION 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

Calcium Carbonate is stable under normal conditions of use, storage and transport.

10.2. CHEMICAL STABILITY

This product is stable under normal conditions and under recommended usage and storage.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS

When heated can decompose. May liberate toxic gases.

10.4. CONDITIONS TO AVOID

Keep away from food, drink and animal feeding stuffs. Avoid contact with water, humidity and heat. Do not store near acids. Avoid dust formation.

10.5. INCOMPATIBLE MATERIALS

May liberate toxic gases. Reacts with acids. It forms carbon dioxide (CO₂). This displaces the oxygen in the air in closed spaces (danger of suffocation).



10.6. HAZARDOUS DECOMPOSITION

The product is non-combustible but thermal decomposition can lead to release of irritating gases and vapours. May evolve carbon dioxide (CO₂) and carbon monoxide (CO).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON TOXICOLOGICAL EFFECTS

TOXIC DOSE	LD50 Oral – Rat – 6450 mg/kg LD50 Dermal – Rat – > 2000 mg/kg LC50 Inhalation – Rat – > 3 mg/l (4h)
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest. Coughing and shortness of breath.
Ingestion:	May cause indigestion. There may be irritation of the throat.
Skin contact:	There may be mild irritation at the site of contact.
Eye contact:	May cause irritation and redness of the eyes.

SECTION 12: ECOLOGICAL INFORMATION

12.1. TOXICITY

Aquatic Toxicity:

Toxicity to freshwater fish: LC50: > 56 mg/l, 96h

Toxicity to algae: EC50: > 14 mg/l, 72h

12.2. PERSISTENCE AND DEGRADABILITY

Not relevant for inorganic substances.

12.3. BIOACCUMULATIVE POTENTIAL

No bioaccumulation potential.

12.4. MOBILITY

Is not likely mobile in the environment due its low water solubility.

12.5. RESULTS OF PBT AND vPvB ASSESSMENT

No data available.



12.6. OTHER ADVERSE EFFECTS

Negligible eco toxicity.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal recommendations: Disposal of calcium carbonate should be in accordance with local and national legislation. Processing, use or contamination of this product may change the waste management options. Do not re-use empty containers. Dispose of container and unused contents in accordance with applicable member state and local requirements. Do not empty into drains.

Uncleaned packaging: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

IMDG

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

ADR/RID

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

IATA

UN number	N/A
UN proper shipping name	N/A
Transport hazard class(es)	N/A
Packing group	N/A

SECTION 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).



Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2 CHEMICAL SAFETY ASSESSMENT

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: OTHER INFORMATION

General information

The information contained in this safety data sheet is provided in accordance with the requirements of the regulations. The product should not be used for purposes other than those shown in section 1 without first referring to the supplier and obtaining written handling instruction. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

Revision Comments

This information is provided in a revised format to that previously produced.

Revision Date: 01/10/2018

Revision: 01

Safety Data Sheet Status Approved.

Date printed 01/10/2018

Signature Initials P.K.

DISCLAIMER:

If this product is re-distributed and re-formulated for sale, details of its hazards and recommended methods for safe handling must be passed to customers. Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer's responsibility to ensure that a suitable and sufficient assessment of the risks created by a work activity using this product is undertaken before this product is used.

NOTE:

The information contained in this Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other Health & Safety Legislation (e.g. the Health and Safety at Work Act, 1974; the Control of Substances Hazardous to Health Regulations, 1988). The data given here is based on current knowledge and experience. The purpose of this data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.