

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

1.1. Product identifier

Product form : Substance

Chemical name : Tri-calciumphosphate

EC No : 270-42-35

CAS No. : 68439-86-1

REACH registration No. : 05-2116457329-36-0000

Synonyms : Dry Ground Bone Ash, Tr-calciumphosphate, TCP.

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

Ceramics, Feed ingredients, Fertiliser, Technical uses

Use advised against:

There are no uses advised against

1.3. Details of the supplier of the safety data sheet

Simba Materials Limited t/a CTM Potters Supplies

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Millpark Industrial Estate

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nr Exeter

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EX5 1EL

T +44 (0)1395 233077 - F +44 (0)1395 233905

1.4. Emergency telephone number

T +44 (0)1709 770801 (Office hours only)

doncaster@ctmpotterssupplies.co.uk

SECTION 2: Hazards identification.

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical and Chemical Hazards: Not classified

Human Health: Irritant cat2 – H315 & H319

Environment:- Not classified

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms (CLP):



Signal word (CLP): Warning

Hazard statements (CLP) :

H302: Harmful if swallowed

H315: Causes serious skin irritation

H319: Causes serious eye irritation

H335: Dry dust may cause respiratory irritation

Precautionary statements (CLP) :

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection

P301+P312: IF SWALLOWED: get medical advice/attention if you feel unwell

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients.**3.1. Substances**

Ingredient(s)	EC-No	CAS-No.	Weight %	Classification (1272/2008/EC)	Reach Registration Number
Bone Ash	270-42-35	68439-86-1	60 - 100	Skin Irritant 2 - H315 Eye - H319	01-2116457329-36-0000

The major component is hydroxyapatite with a small amount of alkaline earth oxides or their natural derivatives present.

The product is produced from animal by-products that are fit for human consumption.

This product is considered non-hazardous and does not contain hazardous components.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures.**4.1. Description of first aid measures**

First-aid measures after inhalation: Remove victim to fresh air. If breathing is difficult, give oxygen. If breathing stops, perform cardio pulmonary resuscitation (CPR). Take to hospital.

First-aid measures after skin contact: Wash immediately with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Seek medical attention if ill effect or irritation develops.

First-aid measures after eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes. Call a doctor.

First-aid measures after ingestion : If swallowed, do not induce vomiting: seek medical advice immediately and show the container or label.

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

Ingestion may cause irritation to mucous membranes. Ingestion may cause stomach discomfort. Central nervous system, Kidney disorders, Drowsiness. Irritating to eyes: Redness, Pain.

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

It is strongly recommended to have the presence of emergency showers and eye baths close to the workstations.

Notes to physician: Treat symptomatically.

SECTION 5: Firefighting measures.

5.1. Extinguishing media

Suitable extinguishing media: No restriction in case of fire in the vicinity

Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the substance or mixture

Fire hazard: Not flammable.

Explosion hazard: In the presence of water, contact with metals may produce hydrogen which may form explosive mixtures with air.

Reactivity: Stable under normal conditions of handling and storage.

Special hazard: Hazardous decomposition products formed under fire conditions: Carbon oxides, Lithium oxide. Do not allow run-off from fire fighting to enter drains or water courses.

5.3. Advice for firefighters

Protection during firefighting: Use of approved supplied air or self-contained breathing apparatus operated in positive pressure mode are satisfactory. Totally impervious protective suits, gloves, and boots must be worn.

SECTION 6: Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Keep public away from danger area. See section 8.2. Keep away from heat source.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and soil. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Sweep or shovel spills into appropriate container for disposal. Avoid dust production.

6.4. Reference to other sections

See section 8 and 13 for more information.

SECTION 7: Handling and storage.

7.1. Precautions for safe handling

Precautions for safe handling: Do not breathe dust. Wash hands plentifully and other exposed areas with water after handling. Remove contaminated clothing and shoes. Wash clothing before re-using.

Packaging: Even those that have been emptied, will retain product residue. Always obey safety warnings and handle empty packaging as if they were full. Avoid all contact with this substance.

Hygiene measures: When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Remove contaminated clothing and shoes.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in dry, cool, well-ventilated area. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Exposure Scenario: See annex

SECTION 8: Exposure controls/personal protection.

8.1. Control parameters

When handling the product it is recommended that protective clothing, goggles and gloves are used to minimise physical exposure to the product.

Where dried product is involved ventilation should be adequate to ensure that Occupational Exposure Limits of 10mg/m³ (TWA-8 hours) are not exceeded, or Local Exhaust Ventilation provided.

Should ventilation measures be found to be unsatisfactory, approved respiratory protection equipment should be worn.

8.2. Exposure controls

Local vacuuming is recommended to maintain the emissions of dust or fumes at the lowest admissible level for exposure. Periodical controls should be done to working environment.

Appropriate engineering controls: If handling conditions produce dust, it should be necessary to use personal protective equipments. Do not eat, drink or smoke while handling the product. At the end of work, wash or shower. Before breaks, wash hands. After work shower or wash. Change work clothes after handling the product. Remove soiled or splashed clothing and wash it before re-using it. Shower and washroom facilities should be separate from changing rooms. The substance must be kept away from food, drink and condiments.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Well-fitted chemical protective goggles with plastic lenses (e.g. Clear PVC). Or facial safety screen. It is generally known that contact lenses must not be worn when working with chemicals because they may contribute to the severity of possible damage to the eyes.

Hand protection: Protective gloves: Nitrile rubber (EN374). Glove thickness: 0.11 mm. Break through time:

Skin and body protection: Long sleeved clothing.

Respiratory protection: In the case of dust or aerosol formation use respirator with an approved filter (EN143).

Recommended filter type: P2

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Provide regular cleaning of equipment, work area and clothing.

Environmental Exposure Controls: Do not allow material to contaminate ground water system.

SECTION 9: Physical and chemical; properties.

Physical state	Solid powder
Colour	White/off white
Odour	odourless.
Odour threshold	Not applicable
pH	Not applicable
Relative evaporation rate (butylacetate=1)	No data available
Melting point	Above 1,150°C
Freezing point	No data available
Boiling point	No data available
Flash point	Not explosive.
Self ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not flammable
Vapour pressure	Not applicable
Relative vapour density at 20 °C	No data available
Relative density	No data available

Solubility in water	No data available
Partition coefficient (n-octanol/water)	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	Not explosive
Oxidising properties	Non oxidising
Explosive limits	Not applicable

9.2. Other information

No further information available

SECTION 10: Stability and reactivity.

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable under normal conditions of handling and storage.

10.3. Possibility of hazardous reactions

None known

10.4. Conditions to avoid

None identified.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information.

11.1. Information on toxicological effects

Acute toxicity

No toxic effects are known.

Prolonged exposure to air-borne dust constitutes an alkaline irritant.

SECTION 12: Ecological information.

12.1. Toxicity

Non biodegradable

No known Eco toxicity effects are expected

12.2. Persistence and degradability

Non biodegradable

12.3. Bioaccumulative potential

Bio-accumulation is unlikely.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects

No experimental data available.

SECTION 13: Disposal considerations.

13.1. Waste treatment methods

Waste from residues / unused products

Dispose of in accordance with local regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

Other information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information.

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

Not considered DG

14.2. UN proper shipping name

Not considered DG.

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

It is not considered hazardous to the environment.

14.6. Special precautions for user

Protect from moisture.

Keep away from foodstuffs and pharmaceuticals.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information.

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

Restrictions on use: No information available.

Other regulations: No information available.

15.2. Chemical safety assessment

A Chemical safety assessment has not been carried out for this substance.

SECTION 16: Other information.

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H315: Causes serious skin irritation

H319: Causes serious eye irritation

H335: Dry dust may cause respiratory irritation

Precautionary statements (CLP) :

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Abbreviations/acronyms

ES: Exposure Scenario

PC: Product Category

SU: Sector of Use

(E)EC: European Commission

REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances

STOT: Specific Target Organ Toxicity

PBT: Persistent, Bioaccumulating, Toxic

vPvB: very Persistent and very Bioaccumulating

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route

RID: Regulations for the International Transport of Dangerous Goods by Rail

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieures

IMDG: International Maritime Dangerous Goods Code

ICAO: International Civil Aviation Organization

Training advice:

Workers must be trained in the proper use and handling of this product as required under applicable regulations.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Label element according to Regulation (EC) No 1272/2008.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. Any chemical product may be handled in safe conditions if its physicochemical and toxicological properties are known, and technical methods and appropriate organising measures are used, as well as adequate personal protective equipment.

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