

Safety Data Sheet

LIMPAC

This Safety Data Sheet contains information concerning the potential risks to those involved in handling, transporting and working with the material as well as describing potential risks to the consumer and the environment. This information must be made available to those who may come into contact with the material or are responsible for the use of the material. This Safety Data Sheet is prepared in accordance with formatting described in REACH regulation (EC) No 1907/2006, and described in CLP Regulation (EC) No 1272/2008.

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Product Name LIMPAC

A full list of product codes that this SDS applies to is given in Section 16

1.2 Relevant identified uses of the substance

Agent for absorbing gases or liquids

1.3 Company Details

Company Name Blend-i-Pack Ltd
Address Rannoch,
Eccles Road,
Chapel-en-le-Frith.
SK23 9RR

Telephone +44 (0)844 800 4665
Web www.blend-i-pack.co.uk
Telephone number of competent person +44 (0)844 800 4665

1.4 Emergency Telephone

Emergency telephone number (24 hours) +44 (0)844 800 4665

2. Hazards Identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008

Skin irritation (Category 2), H315
Serious eye damage (Category 1), H318
Specific target organ toxicity – single exposure (Category 3), respiratory system, H335

2.1.2 Classification according to Dangerous Substances Directive 67/548/EEC

Xi Irritant R37/38, R41

2.2 Labelling elements

2.2.1 Labelling according to Regulation (EC) 1272/2008

Pictogram



Signal word	Danger
Hazard statement(s)	
H315	Causes skin irritation
H318	May cause serious eye damage
H335	May cause respiratory irritation
Precautionary statement(s)	
P261	Avoid breathing dust
P280	Wear protective gloves/eye protection/face protection
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Other hazards

- The substance does not meet the criteria for a PBT or vPvB substance
- No other hazards identified

3. Composition/Information on Ingredients

3.1 Substance

Main constituent	Formula	CAS Number	EC Number	Classification	Concentration
Calcium hydroxide	Ca(OH) ₂	1305-62-0	215-137-3	Skin irrit. 2, Eye dam. 1; STOT SE 3; H315, H318, H335	70-95% w/w
Activated carbon	C	7440-44-0	231-153-3	No classification listed	5-30%w/w

Impurities

No impurities relevant for classification and labelling

4. First Aid Measures

4.1 Description of first aid measures

General advice

- Consult a physician. Show this safety data sheet to the doctor in attendance.

Following inhalation

- If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician

Following skin contact

- Wash skin with soap and water
- If irritation occurs and persists seek medical advice

Following eye contact

- Rinse eye thoroughly with eye wash solution or clean water for at least 10 minutes
- Eyelids should be held away from the eyeball to ensure thorough rinsing
- Obtain medical attention if necessary

After ingestion

- Wash out mouth with water and obtain medical advice if necessary

5. Fire Fighting Measures

5.1 Extinguishing Media

5.1.1 Suitable extinguishing media

- The product is not combustible, all extinguisher products can be used
- Use extinguishing measures that are appropriate to local circumstances and the surroundings

5.1.2 Unsuitable extinguishing media

- None

5.2 Special hazards arising from the substance or mixture

- None

5.3 Advice for firefighters

- Wear self-contained breathing apparatus as necessary

6. Accidental Release Measures

6.1 Personal Precautions

6.1.1 For non-emergency personnel

- Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
- For suitable protective equipment (see Section 8)

6.2 Environmental Precautions

- Avoid discharges into the environment (rivers, water courses, sewers etc.)

6.3 Methods for containment and clean up

- In all cases avoid dust formation
- Use vacuum suction, or shovel into bags
- Store material in a suitable, correctly labelled closed container

6.4 Reference to other sections

- For more information on exposure controls/personal protection or disposal considerations, see section 8 and 13

7. Handling and Storage

7.1 Precautions for Safe Handling

7.1.1 Protective measures

- Keep dust levels to a minimum
- Minimize dust generation
- Atmospheric levels should be controlled in compliance with the workplace exposure limit (see Section 8.1)
- Wear protective equipment (see Section 8.2)

7.1.2 Advice on general occupational hygiene

- Good personal and housekeeping practices
- No drinking, eating and smoking at the workplace

7.2 Conditions for safe storage, including any incompatibilities

- Store in a cool dry place, (preferably at a temperature below 25 °C and humidity less than 65%)
- Store in original, closed and correctly labelled container
- Keep away from acids

8. Exposure Controls/Personal Protection

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Component	CAS Number	Value	Control parameters	Basis
Calcium hydroxide	1305-62-0	TWA	5 mg/m ³	UK EH40 WEL – workplace exposure limits
		TWA	5 mg/m ³	Europe. Commission Directive 91/322/EEC on establishing indicative limit values

8.2 Exposure Controls

8.2.1 Appropriate engineering controls

- if user operations generate dust, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne dust levels below recommended exposure limits

8.2.2 Personal protection

8.2.2.1 Eye/face protection

- face shield and safety glasses required. Use equipment approved under appropriate government standards. Such as EN 166(EU)

8.2.2.2 Hand protection

- handle with gloves
- Suggested type:
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Example product: Dermatril (KCL 740)

8.2.2.3 Skin/body protection

- complete body suit protecting against chemicals.

8.2.2.4 Respiratory protection

- in the case of high dust levels wear suitable respiratory protective equipment eg. dust mask or respirator, that conform to national/international standard, EN143. Recommended filter type P2

8.2.3 Environmental exposure controls

- contain any spillage
- avoid discharges to the environment
- dispose of any rinse water in accordance with local and national regulations

9. Physical and Chemical Properties

9.1 Information basic physical and chemical properties

Appearance	Grey/black powder
Odour	odourless
Odour threshold	not applicable
pH	12.4-12.6 (saturated solution)
Melting point	>450 °C

Boiling point	no data available
Flash point	no data available
Evaporation rate	not applicable
Flammability	no data available
Upper flammability limit	no data available
Lower flammability limit	no data available
Relative density	no data available
Water solubility	partially soluble
Partition coefficient	not applicable (inorganic substance)
Vapour pressure	not applicable (inorganic substance)
Vapour density	not applicable
Decomposition temperature	starts to decompose above 580 °C to liberate calcium oxide and water
Viscosity	not applicable (solid)
Explosive properties	non-explosive (no chemical groups associated with explosive properties)
Oxidising properties	non-oxidising (based on the chemical structure of the substance and the oxidation states of the constituent elements)

10 Stability and Reactivity

10.1 Reactivity

- calcium hydroxide is basic and therefore reacts with acid

10.2 Chemical Stability

- Stable under recommended storage and handling conditions (see Section 7)

10.3 Possibility of hazardous reactions

- an exothermic reaction results on contact with acid

10.4 Conditions to Avoid

- Contact with acids unless under controlled conditions
- Heating above 580 °C – thermal decomposition commences
- Exposure to moisture

10.5 Incompatible materials

- calcium hydroxide reacts with acid liberating heat
- calcium hydroxide reacts with brass and aluminium in the presence of moisture. Storage in contact with these materials should be avoided.

10.6 Hazardous decomposition products

- calcium hydroxide reacts with carbon dioxide when in solution forming calcium carbonate. Calcium carbonate is non-hazardous.

11. Toxicological Information

(a) Acute Toxicity

- Oral LD₅₀, rat : 7340 mg/kg (for calcium hydroxide)

(b) Skin Corrosion/Irritation

- Eyes, severe skin irritation (OECD test guideline 404)

(c) Serious eye damage/irritation

- Eyes, severe eye irritation (OECD test guideline 405)

(d) Respiratory or skin sensitisation

- no data available

(e) Germ cell mutagenicity

- no data available

(f) Carcinogenicity

- No evidence of calcium hydroxide/carbon having carcinogenic effects

Not classified according to EU Directive 67/548/EEC and CLP Regulation (EC) No. 1272/2008

(g) Reproductive toxicity

- No data on reproduction toxicity available. However, based on the normal physiological role of calcium ions, no toxicity on mammalian or human reproduction is expected

12.1 Toxicity

- Fish, *Clarias gariepinus*: 96hr-LC₅₀, 33 mg/l (for Calcium hydroxide)
- Invertebrates, *Daphnia magna* : 48hr-LC₅₀, 49 mg/l (for Calcium hydroxide)

12.2 Persistence and degradableability

- In water: Not applicable (Ca(OH)₂ quickly dissociates), carbon will sediment out

- In soil: Not applicable (inorganic substance)
- In sediment : Not applicable (inorganic substance)

12.3 Biocummulative potential

Not applicable (inorganic substance)

12.4 Mobility in soil

Not applicable (partition coefficient measurement not required, inorganic substance)

12.5 PBT and vPvB assessment

According to Annex XIII of REACH Regulation, inorganic substances do not require assessment

12.6 Other adverse effects

No other adverse effects are identified

13. Disposal considerations

13.1 Waste treatment methods

- If recycling spilled product is not practicable, dispose of in compliance with local or national regulations
- Dissolve in water and neutralise with an acid, under controlled conditions
- Do not dispose of directly with acids

Packaging:

- Where possible, recycling is preferred to disposal or incineration
- Clean container with water, dispose of rinse water in accordance with local or national regulations
- Must be incinerated in a registered incineration plant with permit from the local authorities

14. Transport Classification

Limpac is not classified as hazardous for transport

14.1 UN Number

- Not regulated

14.2 UN proper shipping name

- Not regulated

14.3 Transport hazard class

- | | |
|-------------------------------|--------------------------------|
| - Land Transport : | ADR/RID Not restricted |
| - Inland Waterway Transport : | ADN Not regulated |
| - Sea Transport : | IMO/IMDG Not regulated |
| - Air Transport : | ICAO-TI/IATA-DGR Not regulated |

15. Regulatory information

15.1 Safety, health and environmental regulations

- Water Hazard Class : WGK 1, VwVwS (Germany)
- TSCA Inventory : Listed

15.2 Chemical safety assessment

- A Chemical Safety Assessment/Report has not been carried out

16. Other information

16.1 Indication of changes

Section 1 – change of company name, logo and contact details

Issue No. : 1.1 Date of Issue : April 2015 - supercedes issue No. : 1.0, Date of Issue: January 2010

16.2 Abbreviations and acronyms

WEL : Workplace exposure limit

ACGIH : American Conference of Industrial Hygiene

TWA : Time Weighted Average

DNEL : Derived no effect level

NOEC : No Observed Effect Concentration

PBT : Persistent, Bioaccumulative, Toxic

vPvB : vert Persistent, very Bioaccumulative

PNEC : Predicted No Effect Concentration

ADR : European Agreement Concerning the International Carriage of Dangerous Goods by Road

RID : International Rule for Transport of Dangerous Substances by Rail

ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterway

IMO/

IMDG : International Maritime Organization/International Maritime Dangerous Goods Code

ICAO/

IATA : International Civil Aviation Organization/International Air Transport Association

OECD : Organisation for Economic Co-operation and Development

SIDS : Screening Information Data Set

16.3 Key literature references and sources of data

Data is taken from the Chemical Safety Report (CSR) and/or OECD SIDS report for calcium hydroxide

16.4 Further information

16.4.1 The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid.

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