



Southern Clay Products

Rockwood Additives Limited

Safety Data Sheet

Section 1 - Identification of the Substance and of the Company:	
Product Name: LAPONITE D, RD, ED, HB	Chemical Name: Hydrous Sodium Lithium Magnesium Silicate
Company Identification:	
Contact: Rockwood Additives Limited PO Box 2, Moorfield Road Widnes. U.K. WA8 0JU. Tel: +44 (0) 151 495 2222	Contact: Southern Clay Products, Inc. 1212 Church Street Gonzales, TX 78629 Tel: 1-800-324-2891
Section 2 - Chemical Composition:	
Typical Composition: SiO ₂ 59-60% MgO 27-29% Li ₂ O 0.7-0.9 % Na ₂ O 2.2-2.9% LOSS ON IGNITION 9.2-9.8% All values are % w/w	CAS: 53320-86-8 EINECS 258-476-2

Section 3 - Hazards Identification:**Skin Contact:**

May cause degreasing of skin, dryness or cracking

Eye Contact:

Irritation due to physical contact with dust.

Inhalation:

Irritation to nose and mouth

Ingestion:

May cause gastric irritation.

CHIP/RISK/SAFETY Classification:

Warning Symbols: None required

Risk Phrases: None required

Safety Phrases: S22 S51 Do not breathe dust and use only in well ventilated areas.

Section 4 - First Aid Measures:**Skin Contact:**

Irrigate thoroughly with cold water. Seek medical attention if symptoms persist

Eye Contact:

Irrigate thoroughly with cold water, keeping eyelids open to ensure effective washing. Seek medical advice if irritation persists.

Inhalation:

Remove person to fresh air, loosen clothing and seek expert medical help

Ingestion:

Small amounts: wash mouth out with water and give lots of water to drink. If large amounts ingested medical advice should be sought.

Section 5 - Fire-Fighting Measures:

Use extinguisher to suit cause of fire. Wet Laponite may present a slip hazard.

Section 6 - Accidental Release Measures:

Wear protective clothing against nuisance dust. Sweep up or vacuum spilled product and dispose in accordance with Local Authority Regulations.

Section 7 - Handling and Storage:**Handling:**

Handle using approved gloves in well ventilated area. Handle product in such a way as to minimise dust formation.

Storage:

Store under dry conditions since high humidity or direct contact with water will result in caking. Store away from mineral acids and substances liable to decomposition by dust e.g peroxides. Seal container after use.

Section 8 - Exposure Controls/Personal Protection:**Hand Protection:**

Use PVC or rubber gloves.

Skin Protection:

Normal workwear supplemented by barrier cream.

Eye Protection:

Wear chemical goggles approved for nuisance dust: BS 2092

Respiratory Protection:

Use approved orinasal dust mask to BS 6016 Type 2 if Occupational exposure limits cannot be met by ventilation.

Occupational Exposure Limit:

This product is classed as a nuisance dust with an 8 hr TWA Occupational exposure standard, for total Inhalable dust of 10 mg/m³ and 5 mg/m³ for respirable dust.

Section 9 - Physical and Chemical Properties:**Appearance:**

Free flowing white powder

Odour:

Odourless

pH: 9.8

(2% dispersion in water)

Boiling Point:

Not applicable

Melting Point:

Fuses at 900°C

Flash point:

Not applicable

Flammability:

Non-flammable

Explosive Properties:

None

Oxidising Properties:

Inert

Vapour Pressure:

Not applicable

Relative Density:

0.7-1.3 kg/dm³

Solubility:

Insoluble in water but forms a colloid gel on standing.

Packed

Section 10 - Stability and Reactivity:**Conditions to Avoid:**

Avoid excessive moisture

Materials to Avoid:

Avoid contact with strong mineral acids or substances liable to decomposition by dust e.g peroxide.

Hazardous Decomposition Products:

Lithium salts if product decomposed by mineral acid.

Section 11 - Toxicology Information:

Ingestion - low acute toxicity (LD50 - Oral rat > 8g/kg body weight)

Skin - Primary Irritation Index 0.5 (Rabbit)

Inhalation - LC 50 (rat) > 1.66 g/m³ (maximum supportable dust)

Eye Contact - No long term irritation effects.

Long Term Exposure - Long term exposure to dust in excess of the Occupational Exposure standard may result in fibrosis of the lung tissue.

Section 12 - Ecological Information:

Laponite contains no heavy metals or other agents which are harmful to the environment. The material itself is ecologically inert.

Section 13 - Disposal Considerations:

Waste product may be disposed of by landfill. National and Local legislation concerning disposal of waste materials must be followed and any product disposed of using an approved waste disposal contractor.

Section 14 - Transport Information:

There are no specific transportation precautions required. This product is not classed as a dangerous substance under the classification, packaging and labelling of dangerous substances regulations.

Section 15 - Regulatory Information

15.1 Dangerous Substances Directive 67/548/EEC and Dangerous Preparations Directive 88/379/EEC:

These do not apply.

15.2 Information on the label:

S22-51

15.3 Control of Substances Hazardous to Health (COSHH) Regulations 1988.

These regulations apply in the UK.

15.4 California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)

These do not apply

Section 16 - Other Information:

Thixotropic gelling and suspending agent for aqueous systems; gel forming, general purpose grade.

Decomposed by strong mineral acids.

HSE Approved Codes of Practice EH40, EH12

Laponite is a wholly synthetic product and therefore does not contain any quartz or respirable crystalline silica impurities.

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This Safety Data Sheet complies with the EEC Commission Directive of 5/3/91.