

SAFETY DATA SHEET



molecular

SOFNOLIME RG

Safety Data Ref: 27

Date: 17/12/2008

Issue No: 5

Pages: 1 of 2

1 IDENTIFICATION OF SUBSTANCE	Commercial Names	Sofnolime
	Chemical Name	Soda Lime
2 COMPOSITION	Components	%W/W CAS EINECS Supply Class
	Sodium Hydroxide	3% 1310-73-2 215-185-5 C:R34
	Calcium Hydroxide	>75% 1305-62-0 215-137-3 N/A
3 HAZARDS IDENTIFICATION		Irritating to eyes and skin
4 FIRST AID MEASURE	Inhalation	Remove from exposure. Obtain medical attention
	Skin	Drench with clean water. Obtain medical attention if skin becomes inflamed
	Eyes	Irrigate thoroughly with clean water. Obtain medical attention
	Ingestion	Wash out mouth thoroughly. Obtain medical attention
5 FIRE FIGHTING	Extinguishing Media	Water, Foam, CO ₂ , powder are all suitable
	Fire & Explosion Hazards	Material is non-combustible. Packaging may be combustible
	Protective Measures	Breathing apparatus may be needed
6 ACCIDENTAL RELEASE	Personal Precautions	Avoid inhaling dust. Avoid skin and eye contact
	Environmental Precautions	No hazard
	Recovery	Contain material. Sweep or vacuum up
7 HANDLING & STORAGE		Store in a clean dry environment. Preferred temperature range 0 to 35°C. Avoid freezing and direct sunlight. Keep containers closed
8 EXPOSURE CONTROLS	Occupational Exposure Limits	Component TWA/8h STEL(15min)
		Sodium Hydroxide 5mg/m ³ 2mg/m ³
		Calcium Hydroxide 5mg/m ³
PERSONAL PROTECTION	Respiratory	Nuisance dust mask recommended
	Skin	General purpose rubber gloves
	Eyes	Glasses to protect against dust
	Hygiene	Wash after skin contact
9 PHYSICAL & CHEMICAL PROPERTIES	Appearance	White or coloured solids
	Odour	None
	pH	12-14
	Relative Density	2.0 g/cm ³
	Solubility in water	Slight

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10 STABILITY & REACTIVITY

Material is stable. Converts to Calcium and Sodium Carbonates when exposed to air. Avoid contact with Chloroform or Trichloroethylene. Heat is generated when exposed to acids

11 TOXICOLOGICAL INFORMATION

Sodium Hydroxide LD(L O) = 500mg/kg rbt
Calcium Hydroxide LD(50) = 7.3g/kg rat

12 ECOLOGICAL INFORMATION

No risk of prolonged damage to animal or plant life
Converts to naturally occurring minerals

13 DISPOSAL CONSIDERATIONS

Disposal by licensed contractor and carrier

14 TRANSPORT INFORMATION

Transport Classification	None
UN Number	None
Hazard Class	N/A
Packing Group	N/A

15 REGULATORY INFORMATION

Supply Classification	Irritant
Risk Phrases	R36/38 Irritating to eyes and skin
Safety Phrases	S2 Keep out of reach of children S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention S37/39 Wear suitable gloves and eye/face protection

16 OTHER INFORMATION

The intended use of this product is the removal of carbon dioxide and other acidic materials from industrial process streams. It is not suitable for use in breathing gas systems.

For information relating to:

- a) use of product and general enquiries
- b) purchase orders or delivery
- c) technical information and copies of safety data sheets

Please contact: **Molecular Products Ltd, Mill End, Thaxted, Essex CM6 2LT, UK**
Tel: +44 (0) 1371 830676 Fax: +44 (0) 1371 830998 E.mail: sales@molprod.com

For advice on medical emergencies, fires, spillages or chemical hazards involving warehousing, air, sea, road or rail transportation.

Please contact: National Chemicals Emergency Centre, OX14 3DE
24 hour emergency number: +44 (0) 1865 407333

THE INFORMATION IN THIS SAFETY DATA SHEET IS BASED ON BEST KNOWLEDGE AVAILABLE AT THE TIME AND CURRENT NATIONAL LEGISLATION. IT PROVIDES GUIDANCE ON HEALTH, SAFETY AND ENVIRONMENTAL ASPECTS OF THE PRODUCT AND SHOULD NOT BE CONSTRUED AS ANY GUARANTEE OF TECHNICAL PERFORMANCE OR SUITABILITY FOR PARTICULAR APPLICATION. AS THE SPECIFIC CONDITIONS OF USE ARE OUTSIDE THE CONTROL OF THE SUPPLIER, THE USER IS RESPONSIBLE FOR ENSURING THAT THE PRODUCT IS USED IN A SAFE WAY AND THE REQUIREMENTS OF RELEVANT LEGISLATION ARE COMPLIED WITH.