

MATERIAL SAFETY DATA SHEET (MSDS)

FOR : CALTITE

Issued by Cementaid International Marketing Ltd
Telephone Contact: (852) 2858 3313

DATE : 18th March, 1999

SECTION 1 - IDENTIFICATION OF PRODUCT

Manufacturer's Name: Cementaid (SEA) Pte Ltd
Manufacturer's Address: 12 Neythal Road, Jurong Town, Singapore 2262
Manufacturer's Phone No: (65) 265 5911

Trade Name: Caltite
Chemical Name: Blended Chemicals
Chemical Family: Aliphatic fatty acids
Chemical Information: Caltite is an aqueous emulsion of hydrophobic materials and polymers used for waterproofing and corrosion-proofing concrete. On its own, Caltite gives off a slight ammonia smell. When mixed with cement or concrete, ammonia is released. Mixing should be done only under well ventilated conditions during the initial phase of mixing when ammonia is rapidly released. Avoid conditions where ammonia gas may become entrained in the makeup air intake of an occupied building.

SECTION 2 - HAZARDOUS INGREDIENTS

Ingredient Name	%Mass
Ammonium Hydroxide	< 1.5%

SECTION 3 - TYPICAL PHYSICAL DATA

Appearance and Odour	Dark brown liquid with ammonia smell
Density (Kilograms/Litre)	S.G. 0.96 - 1.00
Boiling Point (°C)	100°C
Volatiles (% Volume)	< 2%
Vapour Pressure (Kilopascals)	-
Vapour Density (AIR=1)	-
Solubility in Water	Aqueous Emulsion

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (°C) – method:	Solution is Non-Flammable
Flammability Limits (%vol):	Solution is Non-Flammable
Fire Extinguishing Media:	Ordinary fire-fighting materials, including Type A extinguisher.
Special Fire Fighting Procedures:	None
Unusual Fire and Explosion Hazards:	None
Hazardous Products of Combustion:	Dried paste when burned will produce dense acrid smoke containing ammonia, carbon monoxide and other hydrocarbons with irritating properties.

SECTION 5 - HEALTH HAZARD DATA

(Ammonia in air) Exposure Limits:	
OSHA PEL	50 PPM
ACGIH TLV	25 PPM
OSHA STEL	35 PPM
ACGIH STEL	35 PPM

Effects of Over-Exposure:

Acute	An eye, mucous membrane and systemic irritant by inhalation (lungs, bronchial passages and respiratory system) or through direct or indirect contact with skin or the eyes. May cause dizziness or shortness of breath.
-------	---

FIRST AID:

Eyes:	Irrigate immediately for 15 full minutes, seek medical attention immediately.
Skin:	Water-flush immediately and thoroughly.
Breathing difficulty:	Respiratory support if necessary, medical attention immediately
Ingestion:	Ingest water immediately. Do not induce vomiting. Seek medical attention.

SECTION 6 - REACTIVITY DATA

Stability:	May coagulate if frozen at 0°C, dried paste is combustible.
During Transport, Handling and Storage:	Stable

SECTION 7 - SPILL OR RELEASE OF MATERIAL

If Material is Released or Spilled:	Contain spill. Avoid release to sanitary sewers. Recapture free material with sorbants and place into resealable container for disposal. Refer to local regulations regarding approved disposal methods.
Waste Disposal :	Contact manufacturer for update information regarding appropriate disposal. At time of MSDS preparation the product in solid form may be disposed of in an approved landfill.

SECTION 8 - PERSONAL PROTECTION INFORMATION

Respirator Recommendation:	Note: Natural (outdoors) ventilation preferred. Position personnel up-wind. Interior use may require exhaust ventilation.
For protection against respiratory irritation where there is no potential splash hazard up to 250 PPM:	Any ammonia chemical cartridge respirator.
For protection against respiratory irritation or eye irritation and potential splash:	A full face respirator with ammonia chemical cartridge
Eye Protection:	Note: Use appropriate handling procedures to minimise splashing and prevent potential eye contact. For protection against any situation where there is a potential for splash into eye, use snug fitting goggles. For protection against eye irritation from airborne ammonia (and potential splash): A full face respirator with ammonia chemical cartridge.
Skin Protection:	Note: Use appropriate handling procedures to minimise splashing and prevent potential skin contact. Minimise contact with skin through gloves and ordinary work clothing. Remove and wash any clothing splashed.

SECTION 9 - HANDLING AND STORAGE PRECAUTIONS

Store above 0 degrees Centigrade. Avoid storage under direct intense sun. Exercise normal safety precautions and commonsense when handling liquid Caltite or concrete containing Caltite.