

Product: **Cem Seal 126**

1: IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/ UNDERTAKING

Product Name: **CEM SEAL 126**

Company: **LaMaCo System Sdn. Bhd.**

Address: **407, Jalan Perusahaan 6, Taman Bandar Baru Mergong, 05150 Alor Setar, Kedah, Malaysia.**

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2: HAZARDS IDENTIFICATION

Emergency Overview

Color: White to off-white

Physical State: Powder or granules

Odor: Odorless

Hazards of Product:

CAUTION! May form explosive dust-air mixture. Slipping hazard. Avoid temperatures Above 130°C (266°F)
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OSHA Hazard Communication Standard

This product is not a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Health Effects:

Eye Contact : **May cause irritation or corneal injury due to mechanical action.**

Skin Contact : **Prolonged contact may cause slight skin irritation with local redness.**

Skin Absorption : **Prolonged skin contact is unlikely to result in absorption of harmful amounts.**

Inhalation : **Dust may cause irritation to upper respiratory tract (nose and throat)**

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Ingestion : Low toxicity if swallowed. Small amounts incidentally as a result of normal handling operations are not likely to cause injury, however swallowing larger amounts may cause injury.

3: COMPOSITION INFORMATION

Component	CAS NO#	Proportion
Methylhydroxyethylcellulose	9032-42-2	15%
Water	7732-18-5	20%
Hydraulic Cement	6599715-1	29%
Silica Quart	14808-60-7	36%

4: FIRST AID MEASURES

Eye Contact : Flush eyes with plenty water, remove contact lenses after the first 1-2 minutes then continue flushing for several minutes. Only mechanical effects expected. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact : Wash skin with plenty of water.

Inhalation : Move person to fresh air, if effect occur, consult a physician.

Ingestion : If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

Notes To Physician : No specific antidote. Treatment of exposure should be directed. At the control symptoms and the clinical condition of the patient.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water .Dry chemical fire extinguisher. Carbon dioxide fire extinguishers.

Fire Fighting Instructions: Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with

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water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires. Dust explosion hazard may result from forceful application of fire extinguishing agents.

Special Protective Equipment for Firefighters:

Wear positive-pressure self contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). If protective equipment is not available or not used fight fire from a protected location or safe distance.

Unusual Fire and Explosion Hazards:

Do not permit dust to accumulate. When suspended in air dust can pose an explosion hazard. Minimize ignition sources. If dust layers are exposed to elevated temperatures, spontaneous combustion may occur. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge.

Hazardous Combustion Products:

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and or irritating. Combustion products may include and are not limited to Phenolics. Carbon monoxide. Carbon dioxide. Nitrogen oxides.

6: ACCIDENTAL RELEASE MEASURES

Steps to be Taken if Material is Released or Spilled:

Contain spilled material if possible. Sweep up. Use care to minimize generation of airborne dust. Do not use water for cleanup. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

Personal Precautions: Material becomes slippery when wet. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environment Precautions: Prevent from entering into soil, ditches, sewers, waterways and/ or groundwater. See Section 12, Ecological Information.

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7: HANDLING AND STORAGE

Handling:

General Handling: Keep away from heat, sparks and flame. No smoking, open flames or sources of ignition in handling and storage area. Electrically ground and bond all equipment. Good housekeeping and controlling at dust are necessary for safe handling of product. See section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Storage:

Store in a dry place. See section 10 for more specific information.

Storage temperature: 5 – 35 °C

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

None established

Personal Protection

Eye/Face Protection: Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort wear chemical goggles.

Skin Protection:

Wear clean, body-covering clothing.

Hand Protection: Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Neoprene. Nitrile. Neoprene. Polyvinyl chloride (“PVC” or “vinyl”). **NOTICE.** The selection of a specific glove for a particular application and duration of use in a workplace should also take into account may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

Respiratory Protection:

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are not applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In dusty or misty atmospheres, use an approved particulate respirator. The following should be effective types of before smoking or eating.

Ingestion:

Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

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Engineering controls:

Ventilation: Use local exhaust ventilations, or other engineering controls to maintain airborne levels below requirements or guidelines. If there are no applicable exposure limit requirements of guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Powder or granules
Color	: White to off-white
Odor	: Odorless
Flash Point-Closed Cup	: No test data available
Flammable Limits In Air	: Lower : No test data available Upper: No test data available
Auto ignition temperature	: No test data available
Vapor Pressure	: Not applicable
Boiling Point (760 mmHg)	: Not applicable
Vapor Density (air= 1)	: Not applicable
Specific Gravity (H ₂ O=1)	: No test data available
Freezing Point	: Not applicable
Melting point	: No test data available
Solubility in Water (by weight)	: Completely soluble in water
pH	: Not applicable
Decomposition Temperature	: No test data available
Kinematic Viscosity	: Not applicable

10: STABILITY AND REACTIVITY

Stability/ Instability:

Stable under recommended storage conditions. See storage section 7.

Conditions to Avoid:

Avoid temperature above 130 °C(266 °F). Exposure to elevated temperatures can cause product to decompose avoid static discharge.

Incompatible Materials:

Avoid contact with oxidizing materials. Avoid contact with : Strong Acids. Strong Bases.

Hazardous Polymerization:

Will not occur .

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Thermal Decomposition:

Decomposition products depend upon temperature , air supply and the presence of other materials.

11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion

For the major component(s) Rat > 2,000 mg/kg.

Skin Absorption:

The dermal LD50 has not been determined.

Repeated Dose Toxicity:

Repeated ingestion of similar cellulose by humans has not resulted in known significant adverse effects.

Chronic Toxicity and Carcinogenicity:

Similar cellulose did not cause cancer in long-term animal studies.

Developmental Toxicity:

Similar cellulose did not cause birth defects or other toxic effects to the fetus in laboratory animal studied.

Reproductive Toxicity:

In animal studies, a similar material has been shown not to interfere with reproduction.

Genetic Toxicology:

Similar cellulose were negative in both in vitro and animal genetic toxicity studied.

12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE

Data for Component: Methoxyethyl cellulose

Movement & Partitioning:

No bioconcentration is expected because of the relatively high molecular weight (WM greater than 1000)

Persistence and Degradability:

Material is not readily biodegradable, according to OECD/EC guidelines.

OECD Biodegradation Tests:

Biodegradation Tests:

Exposure Time

Method

Biodegradation Tests:	Exposure Time	Method
0%	28 d	OECD 301E Test
11%	28 d	OECD 302E Test

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Data for Components: Sodium Carbonate**Movement & Partitioning**

No bioconcentration is expected because of the relatively high water solubility. Potential for mobility in soil is very high (K_{oc} between 0 and 50). Partitioning from water to n-octanol is not applicable.

Persistence and Degradability

Biodegradation is not applicable.

ECOTOXICITY:**Data for Components: Methoxyethylcellulose**

For similar material (s): Not expected to be acutely toxic to aquatic organism.

Data for Components: Sodium Chloride

Material is practically non-toxic to aquatic organism on acute basis.

($LC_{50}/EC_{50}/EL_{50}/LL_{50} > 100$ mg/L in the most sensitive species tested)

Fish Acute & Prolonged Toxicity:

LC_{50} , fathead minnow (*Pimephales promelas*) 10,610 mg/l

Aquatic Invertebrate acute Toxicity

EC_{50} , water flea *Daphnia magna*, 4.571 mg/l

Toxicity to Micro-organism:

IC_{50} , bacteria, Growth inhibition, 1,000 mg/l

13: DISPOSAL CONSIDERATIONS

DO NOT PUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterization and compliance with applicable laws are the responsibility solely of the waste generator. **AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITIONS AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT**, the preferred options include sending to a licensed, permitted Recycler. Reclaimer Incinerator or other thermal destruction device. Landfill. As a service to its customer, Dow provides name of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastic, and that manage used drums.

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14: TRANSPORT INFORMATION

DOT Non- Bulk
Not Regulated

DOT Bulk
Not Regulated

IMDG
NOT Regulated

ICAO/IATA
NOT Regulated

15: REGULATORY INFORMATION

OSHA Hazard Communication Standard:

This product is not a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard ,29 CFR 1910,1200.

Superfund Amendments and Reauthorization Act of 1986 Tittle III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312.

Immediate (Acute) Health Hazard	: No
Delayed (Chronic) Health hazard	: No
Fire Hazard	: No
Reactive Hazard	: No
Sudden release of Pressure Hazard	: No

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-know Act of 1986) Section 313.

To the best our knowledge, this product does not contain chemicals at levels which require reporting under this statue.

Pennsylvania(Worker and Community Right-to-know Act:) Pennsylvania Special Hazardous Substances List:

To the best of our knowledge, this product does not contain chemicals at levels which require reporting under the statue.

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the safe to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statue.

Toxic Substances Control Act (TSCA)

All components of this product are on the TSCA Iventory or are exempt from TSCA Iventory requirements under 40 CFR 720,30

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CEPA- Domestic Substances List (DSL)

All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

16: OTHER INFORMATION

Product Literature:

Additional information on this product may be obtained by calling your Dow Chemical Company sales or customer service contact. Ask for a product brochure.

Revision:

Identification Number : 1015578 / 3021/ Issue date 06.26.2008 / Version : 1.0.

Most recent revision (s) are noted by the bold, double bars in left- hand throughout this document.

Legend

N/A	Not available
W/W	Weight / Weight
OEL	Occupational Exposure Limit
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
ACGIH	American Conference of Governmental Industrial Hygienists, Inc.
DOW IHG	Dow Industrial Hygiene Guideline
WEEL	Workplace Environmental Exposure Level
HAZ_DES	Hazard Designation
Action Level	A value set by OSHA that is lower than the PEL which trigger the need for activities such as exposure monitoring and medical surveillance if exceeded.

Dow Wolf Cellulosics urges each customer or recipient of this (M) SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazard associates with the product. The information herein is provide, in good faith and believed to be accurate as of the effective date shown above. However, no warranty express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's /user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer/user's duty to determine the conditions necessary for the safe use this product. Due to the proliferation of sources for information such as manufacturer-specific (M) SDS, we are not and cannot be responsible for (M) SDS obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.