



# MSDS

## 1) PRODUCT AND COMPANY IDENTIFICATION

Commercial name: MOSHE 3000 METAL THERMIC

Product use: Single-component Flexible Water-Repellent Waterproofing to reduce thermal load

Company name: MOSHE 3000

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## 2) HAZARD IDENTIFICATION

Inhalation: Exposure on application without protection may cause discomfort to sensitive people.

Skin: Skin irritation, redness, and discomfort may occur.

Eyes: Irritation, burns and corneal damage may occur.

Ingestion: Avoid ingestion. May cause burns to the lining of the mouth, throat and esophagus if ingested.

Environment: the alkalinity of watersheds and soil may vary, even if minimally.

## 3) COMPOSITION AND INFORMATION ON INGREDIENTS

Nature of the chemical: Mixture.

MIXTURE	C.A.S.	CONCENTRATION RANGE (%)
Portland	65997 -15-1 45-70	1-8
Filler inert Minerals		7 – 15
Calcium carbonate	471-34-1	2-9
Industrial secret (product contains nanotechnology in its formulation – between 1 and 100 nanometers)		4 – 9
H2O-Based Natural Resins		35 – 65
Polymethyl Siloxane Emulsion		0,01 – 0,8
Soluble Alkali Emulsion		
Modified		0,1
Fungicide and Bactericide		De 0,01 a 0,085

## 4) FIRST AID

Inhalation: Move victim to a well-ventilated area and call a physician immediately.



Skin: Wash thoroughly with soap and water and consult a physician. Do not apply anything to the affected area without consulting a medical professional.

Eyes: If victim is wearing contact lenses, remove them. Wash with plenty of water with the eyelid inverted. See an ophthalmologist immediately.

Ingestion: Do not induce vomiting. See a doctor immediately. If spontaneous vomiting occurs, keep victim leaning forward with head down.

#### **5) FIRE FIGHTING MEASURES**

Extinguishing methods: non-flammable product (product has a high flash point, therefore it is not flammable nor a source of ignition).

Specific hazards arising from the substance or mixture: Non-flammable product.

#### **6) SPILL OR LEAK CONTROL MEASURES**

Environmental Precautions: Isolate the accident area. Prevent the spread of the spilled product, avoiding the contamination of rivers and springs. Stop leak if possible, by avoiding contact with skin and clothing. Never dispose of or pour material directly into sewer.

Leaks must be reported to the manufacturer and/or environmental agencies.

Methods and material for containment and cleaning up: Use dikes or natural barriers to contain spilled product. Absorb dry. Collect all material in appropriate and properly labeled containers for further treatment and disposal.

Waste must be disposed of in accordance with local, state or federal environmental legislation. When loading, verify that it is an appropriate location and perform the indicated safety procedures.

#### **7) HANDLING AND STORAGE**

Precautions for safe handling: Handle with care and avoid contact, wear appropriate personal protective equipment. Dissolving the product in water should be done slowly, mixing constantly. Always add the product to the water and never the other way around.

Safe Storage Conditions: Store in a well-ventilated, dry place, away from moisture and water, physical damage and chemicals that can cause dangerous reactions. Keep containers tightly closed and protected from damage.

Areas must be protected from direct sunlight.

Temperature between 5 and 30 degrees centigrade.

#### **8) EXPOSURE CONTROL AND PERSONAL PROTECTION**

Permissible Exposure Limit (OSHA): Total dust - 15 mg / m<sup>3</sup>; Breathable - 5 mg / m<sup>3</sup>

Engineering control measures: Generate mechanical ventilation with exhaust system with direct exhaust to the environment. Keep the atmosphere concentration of the product content below the limits suggested in professional exposure.

Respiratory protection: It is not necessary to use respiratory protection, as the pasty liquid product, at the temperature of use, does not lose vapors to the environment.

Hand protection: Gloves protected by natural rubber, nitrile or any other waterproof material available.

Eye/face protection: Safety glasses or face shield.

Skin and body protection: closed shoes and protective gear covering the entire body.

Avoid contact with the skin, eyes and mucous membranes for a long time, performing instantaneous washing of the affected areas.

## 9) PHYSICAL AND CHEMICAL PROPERTIES

Appearance: white pasty liquid.

Odor: Characteristic.

pH: 8 to 12.

Relative density: 1.09 g / cm<sup>3</sup>

Flammability: Not flammable.

Solubility: soluble in H<sub>2</sub>O.

Explosive Limit: Non-explosive product

Freezing point less than zero degrees centigrade

## 10) STABILITY AND REACTIVITY

Chemical stability: Stable product when kept under normal conditions.

Conditions to Avoid: Avoid moisture during storage.

Possibility of hazardous reactions: Does not have conditions that by themselves will cause particular hazardous reactions.

Conditions to avoid

Always avoid storage at temperatures under 5 and above 30 degrees centigrade, in order not to lose the product's shelf life or its efficiency.

Hazardous decomposition products

In the decomposition by incineration or biological of the product only water and carbon dioxide are formed which are not dangerous products.

## 11) TOXICOLOGICAL INFORMATION

Acute toxicity: Not applicable.

Skin corrosion / irritation: If product adheres to skin, mild irritation may occur Serious eye damage / eye irritation: May cause mild eye irritation

Respiratory or skin sensitization: The product is not expected to exhibit respiratory sensitization.

Germ cell mutagenicity: The product is not expected to show germ cell mutagenicity.

Carcinogenicity: The product is not expected to be carcinogenic.

Reproductive Toxicity: The product is not expected to be toxic for reproduction.

Specific Target Organ Toxicity: The product is not expected to exhibit specific target organ toxicity.

Aspiration Hazard: The product is not expected to present an aspiration hazard.



## 12) ECOLOGICAL INFORMATION

Ecotoxicity: toxicity to fish LC 50 (96h) greater 100 mg/l *Brachydanio rerio*

Aquatic invertebrates EC50 (48h) greater 100 mg/l *Daphnia magna*

Aquatic plants EC 50 (72h) greater 100 mg/l *Scenedesmus Subspicatus*

Persistence and degradability: The product can be largely eliminated from water through abiotic processes, for example by absorption in Activated Iodine.

Easily eliminated from the water. The product has not been tested, The assessment derives from substances / products with similar structure or composition.

Bioaccumulative Potential: Based on its structural properties, MOSHE 3000 METAL TERMIC is not biologically available. Accumulation in organisms is not expected.

Land mobility: Not determined.

## 13) FINAL DESTINATION CONSIDERATIONS

Recommended Methods for Final Disposal: Never dispose into sewers or the environment. As a class II inert waste, it must be disposed of in accordance with current health and environmental regulations.

Used packaging: Remains of used products and packaging must be washed with water jets and neutral soap, and the resulting residue sent for effluent treatment. Do not reuse empty packaging.

- BEWARE OF CHILDREN, DO NOT LEAVE THE PACKAGING OPEN WITH OR WITHOUT THE PRODUCT, TO AVOID ANY ACCIDENT.

## 14) TRANSPORT INFORMATION

National and international regulations: MOSHE 3000 METAL TERMIC is not considered a hazardous chemical, therefore, no codes and classifications apply to land, river, sea or air transport.

Name: MOSHE 3000 METAL TERMIC

**Transport Limitations:** Maximum stacking of 3 pails of 18 Lts or 5 pails of 3.6 Lts.

## 15) REGULATORY INFORMATION

Federal Decree n. 2657 of July 3, 1998

Law n. 12,305 of August 2, 2010

Decree n. 7404 of December 23, 2010

Ordinance n. 229 of May 24, 2011 Amends Regulatory Standard n. 26

Standard ABNT NBR 14725-4 2014

Product does not harm nature, using the PPE mentioned above will not cause health problems.

## 16) OTHER INFORMATION



The information represented herein was taken from sources that we believe to be reliable and reflect our current knowledge of the product but should not be construed as definitive.

In order to promote the safe use of the product, it is recommended that customers study this MSDS, clarifying any doubts or supplementing information together with us and guiding their employees.