MSDS

1) PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identification

Trade Name: MOSHE 3000 H20FF
Product Type: Water repellent for mortars

1.2 Main Recommended Uses for Substance or Mixture

Recommended Uses for Substance or Mixture: It is a water-resistant additive to be added to concrete. It should be used in concentrated form as a mixture for the integral waterproofing of fresh concrete. It is a fractional liquid product, which effectively extends the service life of concrete structures by inhibiting the so-called AAR (alkali-aggregate reaction).

It offers excellent protection against water, preventing infiltration, moisture or corrosion after application.

1.3 Identification of the supplier of the safety data sheet

Company Info Company Name: MOSHE 3000 CONSTRUCTION MATERIALS LTD
Address: Rua Zélia, 454 Bairro Assunção São Bernardo do Campo / SP - Brazil
Contact phone: +55 11 97673 1458
E-mail: comercial@moshe3000.com

2) HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification	H-Code
Skin irritation – Category 2	H315
Eye irritation – Category 2	H319
Hazardous to the aquatic environment – Category 2	H412

2.2 Labelling elements

Pictograms:

GHS07

Word of warning:
Attention!

Perigo Quotes:

H-Code	Hazard indications.
H315	Causes skin irritation
H319	Causes Eye Irritation
H412	Harmful to aquatic life with long-lasting effects.

P-Code	Safety phrases.
Prevention:	
P280	Avoid release into the environment.
P280	Wear protective gloves / protective clothing / eye protection / face shield.
P305+P351+P338	IF IN EYES: Rinse thoroughly with water for several minutes. If you wear contact lenses, remove them if possible. Continue rinsing.
P332 +P313	If eye irritation persists: consult a doctor.
P501	Properly dispose of contents/container in accordance with local/regional/national/international legislation.

2.3 Other hazards

EUH208 contains 1,2-benzisothiazole-3(2H)-one, formaldehyde. It may cause an allergic reaction.

2.4 Special warnings on risks to man and the environment:

When sprayed, the respiratory tracts may become irritated due to the aerosol droplets.
The customer is responsible for the application of the product in aerosols. Aerosols are dangerous and require special knowledge.

3) COMPOSITION AND INFORMATION ABOUT THE INGREDIENTS

3.1 Chemical nature

Not applicable.

3.2 Mixtures

3.2.1 Chemical description

Compound of modified silanes and polyssiloxanes and additives

3.2.2 Hazardous substances

Substance	Content %
Alkylilane Skin irritation. 2, H 315	1 - 25%
Nonionic Surfactants (Polymers) Severe eye irritation. 1, H 318; Acute toxicity. 4, H 302; Chronic aquatic. 3, H 412	≥1-<0.75%

4) FIRST AID MEASURES

4.1 Description of first aid measures

General information: Putt people safe. Consider the self-protection before trying to help others. Consult the doctor in case of an accident or feeling unwell.

In case of contact with eyes:	Wash immediately with plenty of water for 10 to 15 minutes. Remove contact lenses. Keep your eyes wide open while rinsing. In case of prolonged irritation, consult a doctor.
In case of skin contact:	Wash with lots of soap and water. In case of skin changes or obvious discomfort, seek medical advice (if possible, show the product label or safety data sheet to the doctor).
In case of inhalation:	Keep the victim at rest. In case of loss of consciousness: keep the victim in the left lateral decubitus position. In case of respiratory arrest, start artificial respiration maneuvers. Prevent the victim from cooling down. Consult your doctor and provide the exact product name.
In case of ingestion:	Rinse your mouth often with water and drink plenty of water immediately afterwards. Do not give milk or alcoholic beverages. Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult your doctor and provide the exact product name.
4.2 Most important symptoms and effects, both acute and delayed:	Relevant information can be found elsewhere in this section.
4.3 Indication of any urgent medical attention and special treatments needed:	Further information on toxicology in section 11 should be noted.

5) FIREFIGHTING MEASURES

5.1 Means of extinguishing

Suitable means of extinguishing	CO_2, sand, extinguishing powder. **Do not use water.**

5.2 Special hazards arising from the substance or mixture

Special hazards arising from the substance or mixture:	In a fire, the following can be released: Oxidized Nitrogen (NOx) Carbon Monoxide (CO)+ Carbon Dioxide (CO_2) Silicon dioxide Under certain fire conditions, traces of other dangerous substances cannot be excluded.

5.3 Recommendation for firefighting personnel

Special protective equipment for firefighting:	Wear breathing apparatus that is independent of ambient air. Keep unprotected people away.
General information:	Cooling containers in distress by means of a water jet. Fire residues, as well as contaminated extinguishing water, must be disposed of residually in accordance with the legislation in force.

6) SPILL OR LEAK CONTROL MEASURES

6.1 Individual precautions, protective and protective equipment, and emergency procedures	Cordon off the area. Wear personal protective equipment (see item 8). Keep unprotected people away. If the material spills, indicate risk of slipping. Do not pass through poured material.
6.2 Environmental precautions	Do not let it get to the water, the sewers and the ground. Stop the escape if you can do so without danger. Contain the spilled liquid with appropriate material (e.g. soil). Retain polluted water/fire-putting water. Removal in determined and marked containers. If spilled into watercourses, the sewerage system or the ground, inform the competent authorities.
6.3 Containment and cleaning methods and materials	Pick up mechanically and dispose of in accordance with local regulations. Do not rinse with water. In the case of small quantities: Carry out the collection and disposal of liquids with neutral (non-alkaline/non-acidic) binding materials, such as infusory soil. For large quantities: Liquids can be recovered using suction instruments or pumps. If flammable, use only appropriately rated pneumatic or electrical equipment. Remove any residual sediment that may be released with soap or other biodegradable cleaning agent. Leaks are a safety hazard, apply sand or other inert granular material to improve traction.

7) HANDLING AND STORAGE

7.1 Precautions for safe handling

General information:	Mix well before use.

Precautions for safe handling:	Keep the container tightly sealed. Provide good ventilation/exhaust of the workplace. Avoid the formation of aerosols. In case of aerosol formation, special protective measures (aspiration, respiratory protection) are required. The spilled substance causes a higher risk of skidding. Keep away from incompatible substances according to point 10. Note the information in item 8.
Precautions: Fire and explosion protection:	No special measures are required. Product can release ethanol.

7.2 Secure storage conditions, including possible incompatibilities

Requirements for warehouses and containers:	Use polyolefin containers.
Additional information regarding storage conditions:	Store in a cool, dry place. Protect from the sun's rays. Protect against freezing. Store the container in a well-ventilated place. Do not store together with oxidizing products.
Minimum temperature allowed during storage and transport:	5 °C Do not allow the product to freeze.
Maximum permissible temperature during storage and transport:	30 °C
7.3 Specific end-uses	No information available.

8) EXPOSURE CONTROL AND PERSONAL PROTECTION

8.1 Control Parameters

Air limit values in the workplace:	This information is not available.

8.2 Exposure control

8.2.1 Limited and controlled workplace exposure
8.2.2 Display Controls

8.2.1 Limited and controlled workplace exposure

General protection and hygiene measures:	Observe industrial practices for hygiene standards in the handling of chemical substances. Do not breathe gases/vapours/aerosols. Use with proper ventilation. Avoid contact with eyes and skin. Preventive protection of the skin is recommended. Immediately take off contaminated and impregnated clothing. Clean the work area regularly. Design shower stalls and eye showers. Do not ingest food and drink or smoke during handling. Keep away from food and drinks.
Additional information for configuration and technical measures	Observe the information in item 7. Observe national regulations and statutes.

Personal Protective Measures

Respiratory protection	If the possibility of inhalational exposure above the limit value in the workplace cannot be excluded, appropriate respiratory protective equipment must be used. Appropriate respiratory equipment: Respiratory protective equipment with a full mask, in accordance with established standards such as EN 136. Recommended Filter Type: ABEK gas filter (certain inorganic, organic and acidic gases and vapours; ammonia/amines), in accordance with established standards such as EN 14387. In case of exposure to mist, spray or aerosol, appropriate protective breathing equipment and protection factor should be used. Appropriate respiratory equipment: Respiratory protective equipment with a full mask, in accordance with established standards such as EN 136. Recommended Filter Type: ABEK-P2 combination filter (certain inorganic, organic and acidic gases and vapours; ammonia/amines; particulates), in accordance with established standards such as EN 14387. It is necessary to observe the time limit of use of the respiratory protection and information from the equipment manufacturer.
Eye protection	Recommendation: Airtight goggles.

Hand protection	It is necessary to wear protective gloves when handling the product, such as the EN374 standard. Recommended Glove Material: Nitrile Rubber Protective Gloves Material thickness: > 0.4mm Drilling time for certain chemicals: 10 - 30 min Recommended glove material: Butyl rubber protective gloves Material thickness: > 0.3mm Drilling time for certain chemicals: > 480 min Please observe the instructions for permeability and upwelling time provided by the glove supplier. Also take into account the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. It should be noted that in everyday use, the durability of protective gloves against chemicals can be much shorter than the permeation time found in tests due to many influencing factors (e.g. temperature). When handling open: Chemical protective clothing, full liquid-tight protective clothing if required. Please observe the instructions on permeability time, which is provided by the supplier.
Skin protection	
8.2.2 Limited and controlled exposure to the environment	
Recommendation	Do not let it reach the water, sewers and soil.

9) PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Feature:	Value:	Method:
Aspect		
Form:	liquid	
Color:	Milky white	
Odor		
Odor:	Failure, characteristic	
Odor limit		
Odor limit:	Data not available	
pH value		
pH value	6 - 8 (100 %)	

Melting Point/Freezing Point

Melting Point/Freezing Point:	0 ºC.

Initial boiling point and boiling interval

Initial boiling point and boiling temperature range (760 mmHg):	100 °C

Flash point

Flash point:	>100 °C

Ignition Temperature

Ignition Temperature:	The product is not self-flammable

Upper/lower flammability or explosiveness limit	The product is not at risk of explosion The substance or mixture is not classified as an oxidant

Vapor Pressure

Vapor Pressure:	23 hPa / 20º C

Relative density

Relative density (water = 1):	Not determined
Density:	1,0 g/cm³ (20ºC)

Solubility

Water solubility:	Completely Solúvel

Partition coefficient (n-octanol/water)

Partition coefficient (n-octanol/water):	Not determined

Decomposition Temperature

Thermal decomposition:	Not determined

Decomposition Temperature

Thermal decomposition:	Not determined Ca. 40 s (ISSO 3 mm)

9.2 Other Information

There is no further relevant information available.

10) STABILITY AND RESPONSIVENESS

10.1 – 10.3 Reactivity, Chemical stability, Possibility of hazardous reactions	No hazardous reaction when handled in accordance with appropriate industrial practices. The product is stable under normal conditions. Reacts with: alkaline substances and acids. The reaction occurs with the formation of ethanol. Relevant

information can be found elsewhere in this section.

10.4 Conditions to avoid: Exposure to moisture

10.5 Incompatible materials: Reactions with strong oxidants.

10.6 Hazardous decomposition products: There is no decomposition if used according to specifications.

11) TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Data derived from the product as a whole has a higher priority than data from individual ingredients.

11.1.1 Acute toxicity

LD/LC50 values relevant to the classification:		
By way	LD-50	>2.000 mg/kg (o rato)

Primary irritability effect:

Skin corrosion/irritation Irritating to the skin and mucous membranes.
Severe Eye Damage/Eye Irritation Irritant effect.
Respiratory or skin sensitisation No sensitisation effects are known.

Additional Toxicology Warnings:
Hydrolysis product: Ethanol. Ethanol (64-17-5) is readily absorbed in all routes of exposure. Ethanol can cause irritation of the eyes and mucous membranes, cause dysfunction of the central nervous system, and cause nausea as well as dizziness. Chronic exposure to high amounts of ethanol can cause damage to the liver and central nervous system.
The product has not been tested. The information is derived from the characteristics of the components Individual.
In the case of spraying and insufficient exhaustion, it can cause obstruction of the respiratory system by aerosol droplets! Please absolutely consider the references in chapter 8.

12) INFORMAÇÕES ECOLÓGICAS

12.1 Toxicidade

Toxicidade aquática:		
por via	LC-50	>100 mg/l (Vertebrados)

12.2 Persistence and degradability

There is no further relevant information available.

Procedure: OECD 302 B
Method of analysis: COD reduction (Carb. Org. Diss.)
Degree of elimination: > 70 %
Classification: Easily disposed of from Water

12.3 Bioaccumulation potential

There is no further relevant information available.

12.4 Ground Mobility

There is no further relevant information available.

12.5 Other Adverse Effects

Ecotoxic effects:

Behaviour in wastewater treatment plants:	
EC-50	>100 mg/l (activated sludge)
Elimination	> 70 % (OEDC 302 B)

Other ecological indications:

Valor CSB: 940 mg/g

Valor BSB5: 20 mg/g

AOX Warning: Product does not contain halogen in organic bond, which produces AOX value.

For this hazard parameter there is no test data available for the product as a whole. According to our current knowledge, no detrimental effects are expected for sewage treatment plants.

13) TREATMENT AND DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

13.1.1 Product

Recommendations:

Material that cannot be used, reprocessed, or recycled must be disposed of in accordance with national, state, and local rules and standards at an approved facility. Depending on the legislation, waste treatment methods may establish, for example, landfill or incineration.

13.1.2 Uncleaned packaging

Recommendations:

The packages must be emptied completely (no dripping, no dust residues and carefully spatulated). The packaging can be reused, respecting the valid local/national regulations. Contaminated packaging should be treated with the same precautions observed for the product.

14) SHIPPING INFORMATION

14.1 – 14.4 UN Number; Official UN transport designation; hazard classes for transport purposes; Packing Group

UN Number	
ANTT, ADN, IMDG, IATA	not applicable
Official UN transport designation	

ANTT, ADN, IMDG, IATA	not applicable
Hazard classes for transport purposes **ANTT, ADN, IMDG, IATA** **Class**	Not Applicable
Packing Group **ANTT, IMDG, IATA**	not applicable
Hazards to the environment:	not applicable
Special precautions for the non-applicable user	
Bulk transport in accordance with the Annex **II of the MARPOL Convention and the** non-applicable IBC Code	
UN "Model Regulation":	not applicable

15) REGULATIONS

15.1 Health, safety and environmental regulation/legislation specific to the substance or mixture

National and local standards must be respected.
Information on labeling can be found in item 2 of this document.

16) OTHER INFORMATION

This MSDS has been developed based on current knowledge about the proper handling of the product and under normal conditions of use, according to the application specified on the packaging. Any other form of use of the product that involves its combination with other materials, in addition to forms of use other than those indicated, are the responsibility of the user. It is cautioned that the handling of any chemical substance requires prior knowledge of its hazards by the user. In the workplace, it is up to the company that uses the product to promote the training of its employees regarding the possible risks arising from exposure to the chemical product.