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	STY HRSN HORASAN

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE PRODUCT AND THE COMPANY

1.1 Information About the Substance

Product Identifier: STY HRSN HORASAN

Product Code: 8680671074-979

1.2 Product Use

Natural thermal insulation material including perlite, pumice, hydraulic lime, natural additives and organic fibers.

1.3 Company Introduction

1.3.1 Manufacturer

Company Name: STYRONİT DOĞAL YALITIM MALZ. SAN. VE TİC. A.Ş.

Address: Şifa Mah. Şifa Yanyol Cad. Gülkar Depolar No.14 A-1 Blok Tuzla – İstanbul/
TURKEY

Phone: +90 216 307 50 38

Fax: +90 216 307 74 52

Web Address: www.styronit.com.tr

e-mail: info@styronit.com.tr

1.4 Providing Information About The Safety Data Sheet

Eneshan AKGÜN – STYRONİT - eneshan@styronit.com.tr - +90 216 307 50 38

1.5 Information in Emergency Situations

Company Emergency Advisory : +90 216 307 50 38

Emergency First Aid Center : 112

National Poison Information Centre : 114

Fire : 110



2. HAZARD IDENTIFICATION

2.1 Classification of the Substance or Mixture

Hazardous classes and category codes according to EC 1272/2008 (CLP):

Physical hazards: -

Health related hazards: Skin Sensitivity: Category 1; H317
Eye Irritation: Category 2; H319
STOT Single Exposure: Category 3; H335

Environmental hazards: -

2.2 Labeling

2.2.1 Labeling pursuant to SEA and CLP

2.2.1.1 Hazard Pictograms



GHS07

Signal Word: Attention

Hazardous components which must be listed on the label:

Perlite, expanded
Lime (chemical), hydraulic
PUMICE

2.2.1.2 Detriment expressions and Hazard warnings

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

2.2.1.3 Precautionary Statements



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General:

P101 If medical advice is required, store the packaging or label.
P102 Keep out of reach of children.
P103 Read the label before using it.

Precaution:

P261 Avoid breathing dust / fume / gas / mist / vapor / spray.
P264 Wash thoroughly with water after handling.
P271 Use only outside or in a well-ventilated area.
P272 Do not leave contaminated clothing out of the workplace.
P280 Wear protective gloves / protective clothing / eye protection / face protection.

Intervention:

P312 If you feel unwell, call a POISON CENTER or doctor / physician.
P363 Wash contaminated clothing before reuse.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. If installed and easy to do, remove contact lenses. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice / attention
P337+P313 If eye irritation persists: Get medical advice / attention.

Storage:

P405 Store under lock.
P403+P233 Store in a well-ventilated area. Keep container tightly closed.

Disposal:

P501 Dispose of contents / container according to the procedure.

2.3 Other Hazards

There is no known hazard other than the one listed in the labeling section.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	%	CAS No	EC No	Hazard classification
Perlite, expanded	30 - 35	93763-70-3	618-970-4	Eye Irr. 2; H319 Skin Irr. 2; H315 STOT Single Exp. 3; H335
Lime (chemical), hydraulic	25 - 30	85117-09-5	285-561-1	Eye Dmg. 1; H318 Skin Irr. 2; H315 STOT Single Exp. 3; H335
PUMICE	15 - 20	1332-09-8	603-719-3	Eye Irr. 2; H319 STOT Single Exp. 3; H335
Tile powder	15 - 20	Trade secret		No data available

* The classification of this chemical substance has been made by the manufacturer.

4. FIRST AID MEASURES


4.1 First Aid Measures

4.1.1 General Warnings: Please avoid all kinds of unnecessary exposure. Immediately remove contaminated clothing and wash before reuse.

4.1.2 Inhalation: Remove to fresh air and keep person warm. If symptoms persist, consult a doctor. If the patient's consciousness is unclear, move it to the lateral position for transport.

4.1.3 Contact with skin: Wash affected area with plenty of water and soap. Do not use solvents or thinners. Remove contaminated clothing and wash before reuse. Consult a physician for all irritation / burning conditions.

4.1.4 Contact with eye: Rinse thoroughly with water for 45 minutes and protect from eye contact. Avoid

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rubbing the eyes. Remove contact lenses and remove them. Consult a doctor.

4.1.5 Ingestion:

Consult a doctor immediately. Never give anything by mouth to an unconscious person, do not encourage the person to vomit unless a doctor's advice. If the person is conscious, wash the mouth with water and give plenty of water to drink.

Long-term effects: No data available.

4.2 Most important symptoms / effects, acute & delayed:

See Section 11.

4.3 Symptoms requiring medical emergency and special treatment

No data available.

5. FIRE FIGHTING MEASURES

5.1 Suitable Extinguishers

In the event of fire, adapt fire extinguishing measures to the environment.

5.2 Unsuitable Extinguishers

No data available.

5.3 Hazardous Decomposition / Combustion Products

No data available.

5.4 Personal Protection Initiative and Personal Protective Equipment for Firefighters

In case of fire wear protective equipment and MSHA / NIOSH approved respiratory protection apparatus recommended for fire-fighters.

5.5 Other Information

Avoid breathing gases that are released during the fire, which can be harmful to health.

Evacuate the staff chemical where the danger is inaccessible.

Cool the packages in the fire area and drain them safely.

Avoid polluting the environment by using more fire extinguishers than necessary.

Fire fighting residues should not be allowed to reach sewage and groundwater.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Measures, Protective Equipment and Emergency Procedures

Wear protective equipment. Keep away from ignition sources. Do not breathe fumes/vapor. Avoid contact with skin and eyes. Exposure controls and personal protective measures as described in section 8. Provide adequate ventilation. Do not bring unprotected persons closer.

6.2 Environmental Measures

Unsuitable discharge into the environment can cause soil and water contamination. Do not mix with sewerage / surface water / underground water. Inform authorities in case of water or sewer disposal.

6.3 Methods and items related to restraint and cleaning

Comply with local regulations. Collect harmful material with appropriate liquid binding material (e.g. sand, earth, vermiculite). Place it in an appropriate container and dispose of it according to the 13th division.

6.4 Additional Warnings

Information related to safe use is available in Section 7.

Information related to personal protective equipment is available in Section 8.

Information related to disposal is available in Section 13.

7. HANDLING AND STORAGE

7.1 Use / Handling

In accordance with the provisions of the "Regulation on Health and Safety Precautions in Chemical Matters and Procedures" published in the Official Gazette dated 26/12/2003 and numbered 25328 concerning the measures to be taken in the works and workplaces that are working with hazardous chemicals, in order to protect health, safety and environment, care should be taken to ensure that the work procedures in the workplace are planned and that organizational measures are taken.

Warnings for safe use:

It is imperative that industrial hygiene standards are adhered to in order to prevent swallowing, skin and skin contact during the use of chemicals. Employees should be trained to explain the hazards of the substance and how to behave during the work. Keep it where children cannot reach. Wear personal



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protective equipment (see section 8). Use only in well-ventilated areas. Provide sufficient air exchange and/or exhaust in work rooms. Wash thoroughly after handling. Remove clothing that is contaminated with the product and wash it before using again. It is forbidden to eat and drink anything in the application area. Do not smoke.

Technical Measures

Do not store near food, drinks, medicines, cosmetics or fertilizers.
Keep away from children.

Measures for the environment

Prevent mixing into sewer / surface water / groundwater. Notify authorities and inform authorities if water or sewerage is involved.

Custom Rules for Manual Handling

Prevent direct contact with the substance. Do not smoke.

Warnings for protection against fire and explosion

Avoid open flames, direct sunlight and other sources of ignition-No smoking.

Use explosion-proof equipment.

Protect against electrostatic charges.

Additional information

You take precautions to avoid damage to the original packaging.

7.2 Storage

Features required in warehouses and warehouses

Store only in its original packaging.

Store in cool, dry containers in well sealed containers.

Alerts on co-storage

Store in a dry, cool and well-ventilated area in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and in original containers away from food and beverages.

Protect from excessive heat and frost.

Further information on storage conditions

Keep container tightly closed.

Containers that have been opened must be carefully sealed again and held upwards to prevent leakage.

Do not store in unlabeled containers.

See Chapter 10 before handling or using incompatible materials.

The product must not come into contact with the floor in order to avoid damage.

It should be stacked up to 12 rows.

12 months

Shelf life

7.3. Specific end use(s)

No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Components with limit values that must be checked for the workplace:

Component	Limits	Type of limit	Value (TWA for 8 hours)	Unit
Perlite, expanded	-	-	10	mg/m ³
Puzolanic Cement	General Powder	OEL can be drawn into	10	mg/m ³

Additional information: Based on valid lists at the time of issue.

8.2 Exposure Controls

Exposure Limit Values:

No data available.

Exposure Controls:

Occupational Exposure Controls: Equipment to be used where personal protection is required and appropriate protection methods are defined in accordance with "Personal Protective Equipment Regulation" dated 9.2.2004 and numbered 25368. Make sure that personal protective equipment is used in accordance with applicable regulations.



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Keep away from foodstuffs, drinks and feedstuffs.
Remove contaminated, contaminated clothing immediately.
Wash your hands before and during the breaks.
Keep protective clothing in a separate place.
Avoid touching your eyes and skin.
After contact with the body, please clean it with enough water and soap or use appropriate cleaning products if necessary.

8.2.1 Personal Protection Measures

8.2.1.1 Respiration: It is not mandatory to use breathing protection in areas where ventilation is sufficient. In areas where ventilation is insufficient, type A (EN 14387) masks are recommended.

8.2.1.2 Hand protection: Protective gloves in accordance with EN 374 must be used.

If hands are to be immersed in cement, waterproof, wear-resistant and alkaline-resistant gloves and clothing must be used to prevent skin contact. Use additional skin protection products to protect skin from prolonged contact with wet cement. In contact with material if contact

Wash with PH-neutral soap and water.

Glove material must be impermeable and resistant to the product / material / preparation. Selection of materials used for glove manufacturing requires consideration of perforation times, permeability rates and degradation.

Glove material

In selecting the appropriate gloves, not only the manufacturing material but also other quality features must be taken into consideration and these vary from manufacturer to manufacturer. Since each product comes from a combination of many materials, the durability of gloves can not be calculated in advance and therefore every glove must be checked before use.

Penetration time to glove material

The exact puncture should be learned from the manufacturer of the gloves and this time must be respected.

8.2.1.3 Eye protection: It is recommended to wear protective goggles against splashes. A protective device in accordance with EN 166 must be used.

8.2.1.4 Skin protection: Wear appropriate chemical resistant clothing and boots.

8.2.2 Environmental exposure controls

To avoid effects on people and the environment, work in accordance with the instructions.

8.3 Other Information

See chapters 6, 7, 12, 13.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Powder
Colour	Khorasan color (light pink)
Odor	Odorless
Odor Threshold	No data available.
pH	No data available.
Change of status	
Melting / Freezing Point	No data available.
Initial boiling point and boiling range	No data available.
Dry density (on the wall)	300 ± 25 kg/m ³
Compressive strength	CS 1
Water vapor permeability, μ	≤ 7
Flash poin	No data available.
Evaporation rate	No data available.
Explosion limits	
Lower:	No data available.
Upper:	No data available.
Bond strength	FP:B
Fire resistance	A1
Thermal Conductivity, λ	0.045 kcal/mS°C
Capillary Capillary Water Absorption	W1
Specific weight	No data available.
Resolution	No data available.
Autoignition Temperature	No data available.
Thermal Decay	No data available.
Explosive Properties	No data available.



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9.2 Other Information

No further information is available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal storage, handling and handling conditions.

10.2 Chemical Stability

Decomposition does not occur when used and stored according to method. When mixed with water, it hardens into a stable mass which is not reactive with normal environments.

10.3 Possibility of Hazardous Reactions

No information found

10.4 Conditions to Avoid

During storage, moisture can cause pellet formation and product quality deterioration

10.5 Incompatible Materials

Avoid using uncontrolled aluminum powder in wet product.

10.6 Hazardous Decomposition Products

Hydrogen may be formed in uncontrolled aluminum powder in wet products.

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

Acute Skin Toxicity Limit Test, Rabbit, 24 hours, 2 000 mg / kg body weight - no fatalities [reference (2)].

11.2 Effect of Abrasion and Irritation (Corrosivity and Irritation)

Skin corrosion / irritation

May cause skin thickening, cracking, thin cracks. Prolonged contact with wear may cause severe burns.

Serious eye damage / irritation

It may cause effects from moderate eye irritation to chemical burns and blindness.

Respiratory or skin sensitization

It may irritate the throat and respiratory tract. Prolonged exposure to inhalable dust on occupational exposure limits may cause cough, shortness of breath, and chronic obstructive lung disease (COPD).

11.3 Chronic Toxicity (Toxic Effect on Carcinogenic, Mutagenic and Reproductive)

Carcinogenicity	It does not meet the classification criteria according to the available data.
Mutagenic Effect	It does not meet the classification criteria according to the available data.
Reproductive toxicity	It does not meet the classification criteria according to the available data.


11.4 Other Toxicological Effects

Eye Contact	No information found
Skin Contact	Some individuals may experience eczema after contact with the product. The reaction can go from mild rash to severe eczema.
Inhaling	No information found
Ingestion	Swallowing large amounts may cause irritation in the gastrointestinal tract.
Target Organ	No information found
Medical Symptoms	No information found
Medical Warnings	No information found
Aspiration damage	No information found
Additional info	Inhaling cement can aggravate existing respiratory diseases and / or medical conditions such as emphysema and asthma and / or existing skin and / or eye conditions.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No data available.

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12.2 Persistence and Degradability

The product is not expected to be harmful to the environment (LC50 water poisoning has not been established). However, the addition of large quantities of water to the water may cause the pH to increase and therefore may be toxic to water life in certain situations.

12.3 Bioaccumulative Potential

It is not applicable because it is an inorganic material. It does not carry toxic risk after hardening.

12.4 Mobility in soil

It is not volatile in dry form. However, it can be mixed with air during transportation.

12.5 Results of PBT and vPVB evaluation

No data available.

12.6 Other Inverse

Do not allow its release to the environment. Please see sections 6, 7, 13, 14 and 15 for information on measures against accidental release to the environment, transport., and waste disposal

13. DISPOSAL CONSIDERATIONS

13.1 Suggestion for Product Disposal

- Dispose of the absorbed material by burning it in an appropriate facility with a license.
- Waste and used packaging should be disposed of in accordance with official regulations.
- Prevent surface and underground waters, sources of drinking water, standing and running water from mixing with sewer.

13.2 Safe Disposal

- The product must be disposed of in accordance with official regulations.
- Do not allow the product to be disposed of with household garbage.
- It is strictly forbidden to mix the product with sewerage and groundwater.
- Inform the authorities in such cases.

13.3 European Waste Catalog and Hazardous Waste List Number

- Identification of waste identification numbers / waste definitions should be made according to the EWC as specific to industry and processes.

13.4 Uncleaned Packages

- RECOMMENDATION: It is suggested to dispose in accordance with official regulations.

13.5 Recommended Cleansing Material:

- Deliver the used packaging to institutions or organizations that provide professional waste disposal services.

13.6 Additional Information:

- See national and international legislation on waste.
- Do not dispose of the product without checking the waste regulations.
- For safe handling methods, see Chapter 7.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID, IMDG, IATA

Not regulated as a dangerous good.

14.2 Proper UN transport name

ADR/RID, IMDG, IATA

Not regulated as a dangerous good.

14.3 Transport hazard class (es)

ADR/RID, IMDG, IATA

Class

Not regulated as a dangerous good.

14.4 Packaging group


ADR/RID, IMDG, IATA

Not regulated as a dangerous good.

14.5 Environmental hazards

Marine pollutant

No data available

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14.6 Special precautions for the user

See Chapters 6, 7, and 8.

14.7 Transportation in bulk according to MARPOL 73/78 and IBC code

Not applicable

15. REGULATORY INFORMATION

15.1 Safety, Health and Environment Legislation for the Substance or Mixture

See Section 2 for information on classification and labeling.

*Regulation on Classification, Labeling and Packaging of Substances and Mixtures
Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures
Regulation on Limitations Related to the Production, Placing on the Market and Use of Some Hazardous Substances, Preparations and Goods
Regulation on Occupational Health and Safety
Regulation of Health and Safety Measures for the Works with Carcinogenic and Mutagen Substances
Regulation of Health and Safety Measures for the Works with Chemical Substances
Regulation on the Use of Personal Protective Equipment at the Workplaces
Regulation on Controlling the Hazardous Wastes*

15.2 Chemical Security Assessment

There is no chemical security assessment available.

16. OTHER INFORMATION

16.1 Related H-phrases (Section 3)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

16.2 Prepared for the Safety Data Sheet/Edited by/Published

STYRONİT DOĞAL YALITIM MALZ. SAN. VE TİC. A.Ş. Behalf Başkent Danışmanlık
Chemical Engineer Süreyya Helin AKTURAN (sureyyahelinakturan@gmail.com)

Expert Accreditation No: TSE GBF-A-0-2580 (28.03.2017)

www.baskent.com.tr; helin@baskent.com.tr; +90 312 231 00 22

16.2.1 Contact

Eneshan AKGÜN – STYRONİT - eneshan@styronit.com.tr- +90 216 307 50 38

16.3 Issue Date

05.11.2018

16.4 Regulation No

2

16.5 Safety Data Sheet No

GBF-STY-000013

16.6 Other Matters

- Please contact with our sales department for our training recommendations related to the safe use of the product.
- Please contact with our sales department for recommended limitations and recommendations, which are not legally obligated, related to the use of the product.
- This MSDS is based on information and documents received from the manufacturer. As these information and documents are incomplete or inaccurate, the MSDS preparer cannot be held responsible for the erroneous regulation of the prepared MSDS and therefore for the material damages and non-pecuniary damages that the product owner will face.
- Key information sources used for issuing this safety data sheet;
 - ❖ Information given by **STYRONİT** for the product
 - ❖ "Regulation on Preparation and Distribution of Safety Data Sheets Related to Hazardous Substances and Preparations" and annexes thereof,



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- ❖ "Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures" and annexes thereof,
- ❖ UN ADR, IMDG, IATA lists, ECHA and relevant EU directives,
- ❖ Other supplementary resources.

16.7 Additional Information

- The information provided in this Safety Data Sheet is prepared based on our best experience, knowledge and belief as of the date the information is prepared. The information given is designed for providing a guidance on safe handling, use, processing, storage, transportation, destruction and disposal.
- Unless otherwise stated in the document, this information only applies for the given substance and might not be valid if this substance is used with other substances or used in any other process.
- Please take the information provided in the Safety Data Sheet into account for use.
- This information is based on our existing knowledge.
- This Safety Data Sheet defines the product according to the suitable safety regulations, but does not guarantee the assurance of product specifications.
- It does not constitute any kind of guarantee and does not establish a legally valid agreement related to the product specifications.

16.8 Abbreviations

CAS No	Chemical Abstract Service Number
CERCLA	Comprehensive Environmental Response, Compensation And Liability Act
CFR	Code Of Federal Regulation
DOT	U.S. Department Of Transportation
EC	Exposure Concentration
E.I.N.E.C.S.	European Inventory Of Existing Commercial Chemical Substances
HMIS	Hazardous Material Information System
IARC	International Agency For Research On Cancer
LD50	(Lethal Dose 50) Is The Dose Of Chemical, Which Kills 50% Of A Sample Population
NFPA	The International Fire Protection Association
NIOSH	National Institute For Occupational Safety And Health
NTP	National Toxicology Program
OSHA	Occupational Safety And Health Administration
PEL	Permissible Exposure Limit
SARA	Superfund Amendments And Reauthorization Act
TDG	Transportation Of Dangerous Goods
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weight Average (8 Hour)
WHMIS	Workplace Hazardous Material Information System