



SAFETY DATA SHEET

Adhesives for Building

ATRIA Super tough thin set mortar

1. 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Super tough thin set mortar
Product code:	STTSM50
Common or Generic Name:	Thin set mortar
Manufacturer / Address:	Atria Industries Corporation. 1866 NW 82nd Av. Doral Fl, 33126. United States
Phone Number:	(786) 334-6621
FAX #:	
Emergency Phone Number:	(786) 334-6621
Email:	info@atriaindustries.com

2. COMPOSITION / INFORMATION ON ITS COMPONENTS

MIX

Name of Chemical	Chemical composition	Nº CAS	%Weigh
Sand Silica Quartz	SiO ₂	14808-60-7	40-70%
Portland Cement	N/A	65997-15-1	10-35%
Gypsum	N/A	N/A	0.5-1.5%

3. HAZARDS IDENTIFICATION



Skin corrosion
Serious eye
damage



Skin irritation
and others



Danger of
aspiration

Classification of the substance or mixture:

Carcinogen - Category 1A

Corrosion of the skin - Category 1B

Skin sensitization - Category 1B

Specific target organ toxicity / Repeat Exposure - Category 1

Specific target organ toxicity: Individual exposure - Category 3

Precautionary statements:

Do not tamper until all safety precautions have been read and understood.

Wear impervious gloves, such as nitrile.

Wear eye protection and protective clothing.

Do not eat, drink or smoke when using this product.



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Wash thoroughly after handling.
Use only in a well-ventilated area.
Do not breathe dust.
Potential Health Effects:
Routes of exposure: Eye contact, skin contact, inhalation and ingestion.

ROUTES OF EXPOSURE	<i>DESCRIPTION</i>
Eye contact:	Causes serious eye damage. Symptoms may include discomfort or pain, excessive blinking and tear production, redness and swelling of the conjunctiva.
Skin contact:	<p>Causes skin irritation due to corrosive action. Handling may cause dry skin, discomfort, irritation, thickening, scaling or cracking of the skin and dermatitis. The symptoms can appear in a variety of ways ranging from a mild rash to severe skin ulcers. Sensitized people may react on their first contact with the product. Other people may experience this effect for the first time after years of contact.</p> <p>Portland cement in this product can cause serious, potentially irreversible damage to the skin, eyes, respiratory and digestive tract due to chemical (caustic) burns, including third degree burns.</p> <p>Portland cement burns do not cause immediate pain or discomfort. Therefore, you cannot rely on pain to alert you to cement burns. Precautions should be taken to avoid contact with Portland cement, as they may worsen even after the contact is finished. In that sense, immediately remove all the product from the body and rinse it completely with water.</p> <p>Skin burns and irritation may be caused by brief exposure, although they are often caused by a prolonged exposure of 15 minutes, an hour or more. The interaction of Portland cement with water or sweat releases a caustic solution that causes burns or irritation. Any extended exposure should be treated as if a burn had occurred until otherwise determined.</p> <p>Contact of the skin with Portland cement can also cause inflammation of the skin, known as dermatitis. Signs and symptoms of dermatitis may include itching, redness, swelling, blistering, peeling, and other changes in the normal condition of the skin.</p> <p>The signs and symptoms of burn include the above and whitening, yellowing, blackening, scaling or cracking of the skin.</p>



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	<p>Portland cement in this product may cause allergic contact dermatitis in sensitized persons. This exaggerated reaction of the immune system can lead to severe inflammation. Sensitization may result from a single exposure to low Cr (VI) levels in Portland cement or repeated exposures for months or years. Sensitization is long-lasting and, after sensitization, even very small amounts can trigger dermatitis. Sensitization is infrequent. People experiencing skin problems, including seemingly minor ones, are advised to seek medical attention.</p>
Inhalation:	<p>Inhalation of dust can cause coughing and forced breathing and possibly irritation, resulting in damage to organs after prolonged or repeated exposure. In addition, prolonged or repeated inhalation of breathable silica from this product may cause silicosis.</p> <p>The ATRIA mortar contains considerable amounts of silica quartz and prolonged exposure of it can aggravate other lung conditions and cause silicosis, a disabling and potentially fatal lung disease.</p>
Ingestion:	<p>Irritating to the mouth, throat and stomach. Do not induce vomiting without medical attention.</p>
Carcinogenic Potential:	<p>Quartz silica is a potential contaminant at trace levels, as it is now classified by the International Agency for Research on Cancer (IARC) as a known human carcinogen (Group I). The National Toxicology Program (NTP) assigned the breathable silica the "reasonably anticipated to be [a] carcinogenic" characteristic.</p>

4. FIRST AID MEASURES

By Inhalation:	<p>Keep the victim away from exposure, with fresh air and kept comfortable; If breathing is difficult, give oxygen. If not Breathing, give artificial respiration. In case of unconsciousness, place the patient in a stable position in the lateral position and seek medical attention.</p>
Skin contact:	<p>Wash skin with plenty of cold water and mild soap or mild detergent. Remove contaminated clothing and shoes and wash before reuse. Seek medical attention if irritation or rash occurs.</p>



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Eye contact:	Immediately flush eyes with plenty of water. Continue to wash the eyes for at least 15 minutes, even under the eyelids, to remove all particles. Remove contact lenses if worn. If irritation persists repeat washing. Seek immediate medical attention.
By Ingestion:	Do not induce vomiting. If conscious, have victim drink plenty of water. Immediately call a physician. Never give anything by mouth to an unconscious person. If a person vomits and is lying on their back, they should be turned to one side.
Special information for the doctor:	Seek immediate medical advice or attention if symptoms are significant or persist.

5. FIRE PREVENTION AND FIGHTING MEASURES

Flash Point (° C):	Non Flammable and Non-combustible
Auto ignition Temperature (° C):	Non Flammable and Non-combustible
Flammability Limits (% v / v):	N / A
Extinguishing Media:	Treat for surrounding material
Product with Combustion Hazard:	Any
Special Fire Procedures:	Any
Unusual Fire and Explosion Hazards:	Any
Protective Equipment to Combat Fire:	As with any fire and surrounding materials, wear positive pressure self-contained breathing apparatus approved by (MSHA / NIOSH) and full protective clothing. During a fire, toxic gases and irritants can be generated by thermal decomposition or combustion.
Sensitivity to Mechanical Contact:	Any
Sensitivity to Static Discharge:	Any

6. SPILL CONTROL MEASURES

Personal Precautions:	Avoid dust formation. Avoid inhalation of dust and contact with skin. In the case of dust exposure above regulatory limits (see section 8); Use personal respiratory protective equipment recommended (see section 8) and keep unprotected persons away.
Environmental Precautions:	Pick up immediately and thoroughly sweeping or preferably with vacuum cleaner. After cleaning, remove traces with wet towel.



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	Keep in suitable, closed containers for disposal. Do not flush into sewers or allow water to enter drains.
Methods of Cleaning:	If small leakages occur during handling of the packs, pick up immediately and thoroughly sweeping or preferably with a vacuum cleaner. Dispose of material in appropriate containers.

HANDLING AND STORAGE

Handling:	Use only in areas with adequate ventilation and extraction. Avoid formation of breathable particles. In the event of insufficient ventilation, wear appropriate personal respiratory protective equipment approved by OSHA or NIOSH and adjusted goggles. Avoid contact with eyes, skin and clothing. DO NOT BREATHE DUST. DO NOT EAT. Good cleaning is important to prevent dust buildup. Do not mix with other chemicals, except as indicated by the manufacturer. Wear chemical resistant gloves and eye protection. Wash contaminated clothing before reuse and Wash hands before eating and drinking.
Storage:	Keep the container tightly closed in a dry, well-ventilated place and at room temperature. Keep out of the reach of children. Do not allow the water to come in contact with the product until the moment of its use to preserve the usefulness of the product.

7. EXPOSURE CONTROL AND PERSONAL PROTECTION

Control Standards:

OCCUPATIONAL EXPOSURE LIMITS

Name of Chemical	OSHA-PEL	ACGIH-TLV	CAP
Sand Silica Quartz	0.1 mg/m ³	0.025 mg/m ³	0,05 mg/m ³ A2
Portland Cement	5 mg/m ³ (Breathable) 15 mg/m ³ (Total)	10 mg/m ³ (Breathable)	10 mg/m ³ (1)
Calcium carbonate	5 mg/m ³ (Breathable) 15 mg/m ³ (Total)	5 mg/m ³ (Breathable)	10 mg/m ³ (1)

(1): The value is inhalable particulate (total) not containing asbestos and with less than 1% crystalline silica

Engineering Controls:	Use adequate ventilation especially in confined areas to maintain exposure (levels of dust, fumes, vapors, etc.) below recommended exposure limits. If engineering measures are not sufficient to maintain the concentration of dust particles below the OEL
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		(Occupational Exposure Limit), adequate respiratory protection should be worn.
Personal protective equipment:	➤ Eye and Face Protection:	Wear safety glasses with side shields or goggles in situations where there is a risk of exposure to splashes or blows from product products. Wear unventilated or indirectly ventilated goggles in extremely dusty or unpredictable environments. Contact lenses should not be worn when working with the product.
	➤ Skin Protection:	Hand Protection: Wear gloves of the appropriate length to provide adequate splash protection. It has been found that nitrile, butyl and PVC gloves provide adequate protection for incidental contact. Cautions should be observed because burns occur with little warning - little heat is felt. The use of neoprene gloves is chemically resistant to this material when its frequency is prolonged or repeated contact may occur. Skin Protection: Wear suitable, clean clothing that covers the entire body.
	➤ Respiratory protection:	Avoid activities that cause dust to disperse in the air. Use local or general ventilation to ensure exposure is kept below applicable exposure limits. Use NIOSH approved respirators (29 CFR 1910.134) and the ANSI standard for respiratory protection (Z88.2) in poorly ventilated areas, or when exposure limits are exceeded, or when dust causes irritation or discomfort.
Personal Hygiene Measures:		Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Wash your hands before breaks and after work. When using, do not eat, drink or smoke.

8. CHEMICAL PHYSICAL PROPERTIES

Physical State:	Solid Granules
Color:	Grey Brown
Odor:	None
Ph:	>13
Initial boiling point:	ND
Boiling Point:	ND
Flash point:	Non Flammable
Threshold - Minor:	ND
Limit - Higher:	ND



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Auto ignition temperature:	Non Flammable
Explosive Properties:	ND
Vapor pressure:	ND
Vapor Density:	ND
Solubility:	Insoluble with water
VOC Content:	0 g/l of Volatile Organic Compounds

9. STABILITY AND REACTIVITY	
Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Stable under normal storage conditions. Keep in a dry place.
Conditions to Avoid:	No dangerous reactions known under normal conditions of use.
Thermal decomposition / conditions to be avoided:	Will not decompose if used according to specifications.
Incompatible materials:	Contact of silica with potent oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide or oxygen difluoride can cause fires.
Hazardous Decomposition Products:	The silica will dissolve in hydrofluoric acid and produce a corrosive gas - silicon tetrafluoride.

10. TOXICOLOGICAL INFORMATION	
SYMPTOMS RELATED TO PHYSICAL / CHEMICAL / TOXICOLOGICAL CHARACTERISTICS:	
<ul style="list-style-type: none"> ➤ Eye contact: Causes serious eye damage. Symptoms may include discomfort or pain, excessive blinking and tearing with redness and swelling in the cornea. ➤ Skin contact: Causes skin irritation. Handling may cause dry skin, discomfort, irritation and dermatitis. May cause sensitization by skin contact. The product becomes extremely alkaline when exposed to moisture, and can cause alkalis and affect mucous membranes. ➤ Inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. The mortar contains Breathable silica (quartz) can cause silicosis (a serious disabling and fatal lung disease), pulmonary fibrosis (scarring). Some studies have shown a high incidence of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic renal and terminal diseases in workers exposed to Breathable silica. Professional exposure to Breathable dust and Breathable crystalline silica should be monitored and controlled. ➤ Ingestion: May be harmful if swallowed. Ingestion may cause discomfort and / or discomfort, nausea or vomiting. 	



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ACUTE TOXICITY		
Name of Chemical	LC50	LD50
Quartz silica	ND	ND
Portland Cement	ND	ND
Calcium carbonate	ND	Oral: 6450 mg/kg, rat.
CARCINOGENICITY		
Name of Chemical	List of Chemicals as Carcinogens or Carcinogens Potential (NTP, IARC, OSHA, ACGIH, CP65)	
Quartz silica	N-A2, I-1, O-1, ACGIH-A2, CP65	
Portland Cement	ACGIH-A4	
Calcium carbonate	ND	
EFFECTS OF SHORT AND LONG TERM EXPOSURE		
SHORT TERM:		
Skin:	Causes severe skin burns	
Eye:	Causes severe eye injury	
Respiratory Sensitization:	ND	
Skin Sensitization:	May produce an allergic reaction on the skin	
Individual Exhibition:	Can irritate the respiratory tract	
Aspiration hazard:	ND	
LONG TERM:		
Carcinogenicity:	May cause cancer by chronic inhalation	
Germ cell mutagenicity:	ND	
Toxic for reproduction:	ND	
Continuous Exposure:	Causes damage to the lungs after prolonged or frequent exposure.	
Synergistic / antagonistic effects:	ND	

11. ECOLOGICAL INFORMATION		
Eco toxicity:	An environmental analysis of the incidence of this specific product has not occurred. However, plants and animals may experience long-term harmful or fatal effects if exposed in direct contact with the product. Avoid entering sewers and waterways.	
Name of Chemical	EC50/NOEC-48 Hours	LC50/NOEC-96 Hours
Quartz silica	ND	ND
Portland Cement	ND	ND
Calcium carbonate	ND	ND



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Persistence / Degradability:	The set material is not biodegradable and is persistent in the environment.
Mobility:	ND
Bioaccumulation:	ND

12. CONSIDERATIONS ON TREATMENT AND FINAL DISPOSITION

Waste Disposal:	Container and material may be full; However, the material must be covered to minimize the generation of dust in the air. This product is not classified as a hazardous waste under the authority of RCRA (40CFR 261) or CERCLA (40CFR 117 & 302).
Disposal of Containers / Containers:	Disposal should be in accordance with local, state, and federal regulations.

13. TRANSPORTATION INFORMATION

DOT	Not regulated as hazardous material by DOT.
IATA	Not classified as dangerous.
IMDG	Not classified as dangerous.
TDG	Not classified as dangerous.
Special precautions for user: Do not tamper until all safety precautions have been read and understood.	

14. REGULATORY INFORMATION

APPLICABLE NATIONAL REGULATIONS:

COVENIN 3059-2006. Material Safety Data Sheet.

OSHA STANDARD. 29 CFR 1926.55 Gases, Vapors, Fumes, Dusts (Fibers) & Mists.

COVENIN 2253-2001. Permissible Environmental Concentrations of Chemical Substances in Workplaces and Exposure Biological Indices.

List of carcinogens by the International Agency for Research on Cancer (IARC).

15. OTHER INFORMATION

ABBREVIATIONS

NA: Not Apply

IDHL: Limit immediately dangerous to life or health

STEL: Short-term exposure limit

CAS: Chemical Abstracts Service

NE: Not established

TLV: The limit value of the threshold

TWA: Weighted average time

EC: Concentration without effect

ND: Undetermined

PEL: Permissible Exposure Limit

OECD: Guidelines for the testing of chemicals

LC: Lethal Concentration



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➤ **VENEZUELA:**

National Venezuelan Industrial Standards Commission (COVENIN).

➤ **USA:**

Department of Transportation (DOT).

Occupational Safety and Health Administration (OSHA).

International Agency for Research on Cancer (IARC).

National Toxicology Program (NTP).

National Fire Protection Association (NFPA).

National Institute of Occupational Safety and Health (NIOSH).

American Conference of Governmental Industrial Hygienists (ACGIH).

International Air Transport Association (IATA).

International Maritime Dangerous Goods Code (IMDG).

Transport of Dangerous Goods (TDG).

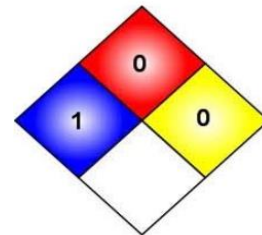
NFPA CLASIFICACIÓN

NFPA Danger to health: 1 = May cause significant irritation

NFPA Flammability: 0 = Non flammable

NFPA Reactivity: 0 = Minimum

NFPA Especial Risk: None



NOTE: "This Safety Data Sheet (HDS) has been designed in accordance with the characteristics of the ingredient in the formulation that is in the highest proportion and the risk represented by the manufacturer. The information contained in this MSDS is based on our best judgment regarding the proper use and handling of the product under normal conditions. The opinions expressed in this form are those of trained professionals, however, each individual should make a determination regarding the adequacy of the information for their particular purpose. Any use of the product that does not conform to the information contained on the label or in combination with any other product or process is the responsibility of the user. "

Date of manufacture:
02/18/2017

Date of last update:
NA

Version:
1