Section 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

- Product Name: GTS Sanded Thin-Set Mortar
- Product Code: Not Available

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Product Use: Mortar

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEETS

Name/Address:	JAMO
	3490 Piedmont Road, Suite 1300 Atlanta, GA 30329

Telephone Number: (562)-598-8808

1.4 EMERGENCY TELEPHONE NUMBER

Emergency Telephone	INFOTRAC 1-800-535-5053 (US and Canada)
Number:	INTERNATIONAL + 1-352-323-3500

Section 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) OF 29 CFR

1910.1200 (OSHA HAZCOM2012)

Skin Irritation	Category 2
Serious Eye Damage	Category 1
Skin sensitization	Category 1B
STOT-SE	Category 3
STOT-RE	Category 1
Carcinogenicity	Category 1A

2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM2012

2.2a SIGNAL WORD: DANGER!

2.2b HAZARD STATEMENTS Causes skin irritation Causes serious eve damage

Causes serious eye damage May cause an allergic skin reaction May cause respiratory irritation

Causes damage to organs through prolonged or repeated exposure May cause cancer

2.2c HAZARD PICTOGRAMS



2.2d PRECAUTIONARY STATEMENTS

i.	PREVENTION	Wash hands thoroughly after handling. Do not breathe dust/fume/gas/mist/ vapors/spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
ii.	RESPONSE	If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: call a poison center/doctor. If exposed or concerned: get medical advice/attention
iii.	STORAGE	Store in a well-ventilated place. Keep container tightly closed.
iv.	DISPOSAL	Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations.

2.3 ADDITIONAL INFORMATION

2.3a HNOC – HAZARDS NOT OTHERWISE CLASSIFIED Not applicable

2.3b UNKNOWN ACUTE TOXICITY 44% of the mixture consists of ingredient(s) of unknown acute toxicity.

2.3c WHMIS CLASSIFICATION

Class D2B – Skin/Eye Irritant Class D2A – Chronic Toxic Effects Class D2A - Carcinogenicity Class E – Corrosive Material

2.3d LABEL ELEMENTS ACCORDING TO WHMIS

i. WHMIS HAZARD SYMBOLS



ii. SIGNAL WORD DANGER!

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

CAS Number	Weight %
14808-60-7	40 - 70%
65997-15-1	15 – 40%
68131-74-8	10 - 30%
1317-65-3	10 - 30%
65996-69-2	5 – 10%
7778-18-9	1 – 5%
	14808-60-7 65997-15-1 68131-74-8 1317-65-3 65996-69-2

*Means that the component will fall into one the ranges specified due to batch-to-batch variability.

Section 4: FIRST-AID MEASURES

4.1 DESCRIPTION OF THE FIRST-AID MEASURES

ROUTES OF EXPOSURE	DESCRIPTION
Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
Skin Contact:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
Inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
Ingestion:	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

ROUTES OF EXPOSURE	DESCRIPTION
Eye Contact:	Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Skin Contact:	Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact.
Inhalation:	May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease.
Ingestion:	May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Not applicable

Flammability:

Section 5: FIRE-FIGHTING MEASURES

5.1 FLAMMABILITY

Not Flammable by WHMIS/OSHA HAZCOM2012 Criteria

5.2 EXTINGUISHING MEDIA

- **5.2a.** Suitable Extinguishing Media: Treat for surrounding material.
- 5.2b. Unsuitable Extinguishing Media: Not available.

5.3 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

5.3a. Products of Combustion: May include, and are not limited to: oxides of carbon and hydrogen sulfide

5.3b. Explosion Data

- i. Sensitivity to Mechanical Impact: Not available.
- ii. Sensitivity to Static Discharge: Not available.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Methods for Containment:	Recover all usable material. Pick up large pieces, and then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for Cleaning-Up:	Vacuum or sweep material and place in a disposal container. Dispose of unwanted material properly in accordance with all local, regional, national and international regulations.

Section 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Handling:	Use in well-ventilated areas. Wear chemical resistant gloves and eye protection. Do not mix with other chemical products, except as indicated by the manufacturers. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. Do not take internally. Good housekeeping is important to prevent accumulation of dust.
General Hygiene Advice:	Use good industrial hygiene practices and wear recommended personal protection. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage:Keep out of the reach of children. Keep container tightly closed.
Store at room temperature and keep containers closed when not in
use. Avoid any dust buildup by frequent cleaning and suitable
construction of the storage area. Keep dry until use.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETER Exposure Guidelines

C	ccupational Exposure Limits	
Chemical Name	OSHA-PEL	ACGIH-TLV

Page 5 of 13

Crystalline silica, quartz	0.1 mg/m ³	0.025 mg/m³
Portland cement	5 mg/m³ (resp.)	10 mg/m³ (resp.)
	15 mg/m³ (total)	
Coal Ash	Not available	Not available
Calcium carbonate	5 mg/m³ (Resp.)	5 mg/m³ (Resp.)
	15 mg/m ³ (Total)	
Slag	Not available	Not available
Gypsum	10 mg/m³ (Resp.)	10 mg/m³
	15 mg/m ³ (Total)	-

8.2 EXPOSURE CONTROLS

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

8.3 INDIVIDUAL PROTECTION MEASURES

8.3a. Personal Protective Equipment:

i. **Eye/Face Protection:** Wear approved eye/face protection [properly fitted dust- or splashproof chemical safety goggles/face (face shield)]

ii. Skin Protection:

- **1. Hand Protection:** Wear chemical resistant gloves.
- 2. Body Protection: Wear suitable protective clothing
- iii. Respiratory Protection: A NIOSH approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).
- iv. General Health and Safety Measures: Handle according to established industrial hygiene and safety practices.

Appearance (physical state, color, etc.):	Solid Powder (Gray or White)	
Odor:	Characteristic	
Odor Threshold:	Not available	
pH:	10 – 12.5 when wet	
Melting point/Freezing point:	Not available	
Initial boiling point and boiling range:	Not available	
Flash point:	> 212°F	
Evaporation rate (Water=1):	Not available	
Flammability:	Not flammable	
Upper Flammability/Explosive Limit:	Not available	

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Lower Flammability/Explosive Limit:	Not available
Vapor Pressure	Not available
Vapor Density:	Not available
Relative Density:	2 – 3 g/cc
Solubility in Water:	Slightly Soluble
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition Temperature:	Not available
Viscosity (cps):	Not available
VOC Content:	0 g/L (0%)

Section 10: STABILITY AND REACTIVITY

10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

10.2. CHEMICAL STABILITY

Stable under normal storage conditions. Keep dry in storage.

10.3. POSSIBILITY OF HAZARDOUS REACTION

No dangerous reaction known under conditions of normal use.

10.4. CONDITIONS TO AVOID

Heat. Incompatible materials.

10.5. INCOMPATIBLE MATERIALS Strong acids. Strong Oxidizers.

10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Upon decomposition, this product may yield oxides of carbon and hydrogen sulfide.

Section 11: TOXICOLOGICAL INFORMATION

11.1. LIKELY ROUTES OF EXPOSURE: Skin contact, skin absorption, eye contact, inhalation, and ingestion.

11.2. SYMPTOMS RELATED TO PHYSICAL/CHEMICAL/TOXICOLOGICAL CHARACTERISTICS:

- **Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- **Skin Contact:** Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact.

- Inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease.
- **Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

Acute Toxicity		
Chemical Name	LC50	LD50
Crystalline silica, quartz	Not available	Not available
Portland cement	Not available	Not available
Coal Ash	Not available	Oral >2000 mg/kg, rat
Calcium carbonate	Not available	Oral 6450 mg/kg, rat
Slag	Dusts/Mists: >5,235 mg/m ³	Dermal: >4,000 mg/kg
Gypsum	Not available	Not available

Carcinogenicity		
Chemical Name	Chemical Listed as Carcinogens or Potential Carcinogen (NTP,IARC,OSHA,ACGIH,CP65)	
Crystalline silica, quartz	N-A2, I-1, O-1, ACGIH-A2, CP65	
Portland cement	ACGIH-A4	
Coal Ash	Not Listed	
Calcium carbonate	Not Listed	
Slag	Not Listed	
Gypsum	Not Listed	

11.3. DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT AND LONG-TERM EXPOSURE

SHORT-TERM	
Skin Corrosion/Irritation:	Causes skin irritation
Serious Eye Damage/Irritation:	Causes severe eye damage
Respiratory Sensitization:	Not available
Skin Sensitization:	May cause an allergic skin reaction
STOT-Single Exposure:	May cause respiratory irritation
Aspiration Hazard:	Not available
LONG-TERM	
Carcinogenicity:	May cause cancer
Germ Cell Mutagenicity:	Not available
Reproductive Toxicity:	Not available
STOT-Repeated Exposure:	Causes damage to organs through prolonged or
	repeated exposure
Synergistic/Antagonistic Effects:	Not available

Section 12: ECOLOGICAL INFORMATION

12.1. ECOTOXICITY

May cause long-term adverse effects to the aquatic environment. Keep from entry into sewers and waterways.

Ecotoxicity		
Chemical Name	EC50/NOEC-48 Hours	LC50/NOEC-96 Hours
Crystalline silica, quartz	Not available	Not available
Portland cement	Not available	Not available
Coal Ash	LC50 > 100 mg/L Daphnia Magna	LC50: > 100 mg/L
Calcium carbonate	Not available	Not available
Slag	LC50 > 100 mg/L Daphnia Magna	LC50: > 100 mg/L
Gypsum	Not available	Not available

12.2. PERSISTENCE AND DEGRADABILITY Not available

- **12.3. BIOACCUMULATIVE POTENTIAL** Not available
- 12.4. MOBILITY IN SOIL Not available
- 12.5. OTHER ADVERSE EFFECTS Not available

Section 13: DISPOSAL CONSIDERATIONS

13.1. DISPOSAL METHOD

Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations

13.2. OTHER DISPOSAL CONSIDERATIONS Not available

Section 14: TRANSPORT INFORMATION

DOT (U.S.)	TDG (CANADA)	
UN NUMBER:	UN NUMBER:	
Not regulated	Not regulated	
UN PROPER SHIPPING NAME:	UN PROPER SHIPPING NAME:	
Not regulated	Not regulated	
TRANSPORT HAZARD CLASS (ES):	TRANSPORT HAZARD CLASS (ES):	

Not regulated	Not regulated
PACKING GROUP (if applicable): PACKING GROUP (if applicable	
Not regulated	Not regulated

SUMMARY: Product is not regulated under DOT/TDG and other transportation regulations.

14.1. ENVIRONMENTAL HAZARDS

Not available

14.2. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE Not available

14.3. SPECIAL PRECAUTIONS FOR USER

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

Section 15: REGULATORY INFORMATION

15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE CHEMICAL

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

US: SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

15.2. US FEDERAL INFORMATION:

	SARA TITLE III			
CHEMICAL NAME	SECTION 302	SECTION 304	CERCLA RQ	SECTION 313
	(EHS) TPQ (LBS)	EHS RQ (LBS)	(LBS)	(TRI)
Crystalline silica, quartz	Not Listed	Not Listed	Not Listed	Not Listed
Portland cement	Not Listed	Not Listed	Not Listed	Not Listed
Coal Ash	Not Listed	Not Listed	Not Listed	Not Listed
Calcium carbonate	Not Listed	Not Listed	Not Listed	Not Listed
Slag	Not Listed	Not Listed	Not Listed	Not Listed
Gypsum	Not Listed	Not Listed	Not Listed	Not Listed

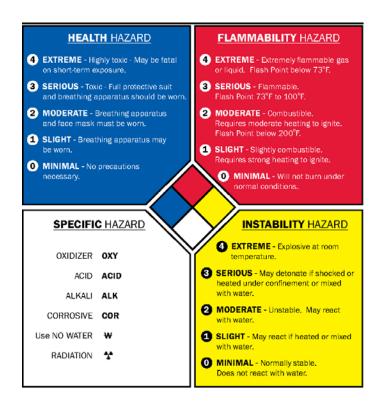
15.3. US STATE RIGHT TO KNOW LAWS:

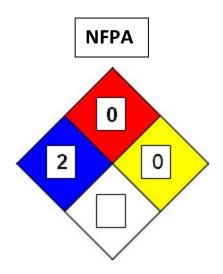
California Proposition 65:	WARNING! This product contains a chemical known to the State of California to cause cancer, birth defects or other reproductive harm
Other U.S. States "Right to Know" Lists:	
New Jersey:	Silica, quartz: CAS#14808-60-7 Silicate, Portland cement: CAS#65997-15-1 Calcium carbonate: CAS#1317-65-3 Gypsum (calcium sulfate): CAS#7778-18-9
Pennsylvania:	Silica, quartz: CAS#14808-60-7 Cement, Portland, chemicals: CAS#65997-15-1 Calcium carbonate: CAS#1317-65-3 Gypsum: CAS#7778-18-9
Massachusetts:	Quartz: CAS#14808-60-7 Portland cement: CAS#65997-15-1 Limestone: CAS#1317-65-3 Plaster of Paris: CAS#7778-18-9
Minnesota:	Silica, quartz: CAS#14808-60-7 Cement, Portland, chemicals: CAS#65997-15-1 Calcium carbonate: CAS#1317-65-3 Gypsum: CAS#7778-18-9
Florida:	Not Available
Michigan:	Not Available

15.4. GLOBAL INVENTORIES

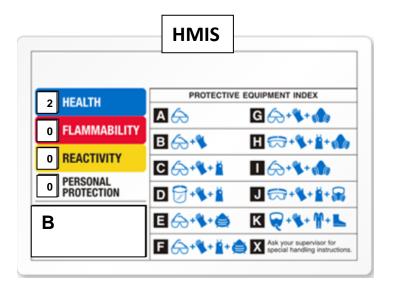
Chemical Name	USA TSCA	Canada DSL/NDSL
Crystalline silica, quartz	Yes	DSL
Portland cement	Yes	DSL
Coal Ash	Yes	DSL
Calcium carbonate	Yes	NDSL
Slag	Yes	DSL
Gypsum	Yes	DSL

15.5. NFPA AND HMIS RATINGS:





Hazard Index		
4 Severe Hazard		
3	3 Serious Hazard	
2	Moderate Hazard	
1	Slight Hazard	



15.6. SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65	California Proposition 65	
OSHA (O)	Occupational Safety and Health Administration	
ACGIH (G)	American Conference of Governmental Industrial Hygienists	
	A1 – Confirmed human carcinogen	
	A2 – Suspected human carcinogen	
	A3 – Animal carcinogen	
	 A4 – Not classifiable as a human carcinogen 	
	A5 – Not suspected a human carcinogen	
IARC (I)	International Agency for Research on Cancer	
	 1 – The agent (mixture) is carcinogenic to humans 	
	2A – The agent (mixture) is probably carcinogenic to humans; there	
	is limited evidence of carcinogenicity in humans and sufficient	
	evidence of carcinogenicity in experimental animals.	
	 2B – The agent (mixture) is possibly carcinogenic to humans; there 	
	is limited evidence of carcinogenicity in humans in the absence of	
	sufficient evidence of carcinogenicity in experimental animals.	
	• 3 – The agent (mixture, exposure circumstance) is not classifiable	
	as to its carcinogenicity to humans.	
	 4 – The agent (mixture, exposure circumstance) is probably not 	
	carcinogenic to humans.	
NTP (N)	National Toxicology Program	
	 1 – Known to be carcinogens 2 – Researchly anticipated to be carcinogene 	
	 2 – Reasonably anticipated to be carcinogens 	

Section 16: OTHER INFORMATION

Date of Preparation:	September 4, 2014
Version:	2.0
Revision Date:	N/A

Disclaimer: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

Prepared	by:
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End of Safety Data Sheet