

SECTION 1: Identification

1.1. Identification

Product name : HEBEL Autoclaved Aerated Concrete (HEBEL AAC)

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Building material

1.3. Details of the supplier of the safety data sheet

Xella Mexicana, S.A. de C.V.
Carretera a Dulces Nombres Km 9.1
Pesqueria, Nuevo Leon, Mexico 66650

1.4. Emergency telephone number

Emergency number : +52 81 8399 2424
+52 81 8369 1515 (Manufacturing facility)

SECTION 2: Hazard(s) identification

The product as supplied is non-hazardous. When concrete products are cut, sawn or crushed, dust is created which contains crystalline silica, some of which may be respirable (particles small enough to go into the deep parts of the lung when breathed in), and which is hazardous.

The solid form of this product is comprised bound quartz. During masonry work, dust may be released from the product and should be monitored in the workplace to ensure worker exposure limits are not exceeded. Dust formation must be avoided during handling and storage of the product. When machining HEBEL AAC, suitable tools with low dust generation must be used. Measures to remove dust, e.g. by suction, shall be preferred

The following GHS classifications refer MAINLY to the dust of these products

GHS-US classification

Acute Tox. A (Oral) H302
Carc. 1A H350

Full text of hazard classes and H-statements: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07



GHS08

Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation H350 - May cause cancer

Precautionary statements (GHS-US) :

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust
P264 - Wash thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P301+P312 - If swallowed: Call a poison center/doctor if you feel unwell
P305+P351+P338 - If in eyes, rinse cautiously with water for several minutes.
P308+P313 - If exposed or concerned: Get medical advice/attention
P330 - Rinse mouth
P405 - Store locked up
P501 - Dispose of contents/container in accordance with local/national/international regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Tobermorite	(CAS No) 1319-31-9	60 - 80	Not classified
Quartz	(CAS No) 14808-60-7	15 - 30	Acute Tox. 4 (Oral), H302 Carc. 1A, H350
Calcium sulfate	(CAS No) 7778-18-9	3 - 8	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person immediately to fresh air, away from dusty area. Consult a physician as necessary.
- First-aid measures after skin contact : Wash affected area with mild soap and water. If irritation persists, get medical attention.
- First-aid measures after eye contact : Immediately rinse carefully and thoroughly using eye wash or water.
- First-aid measures after ingestion : Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : Excessive exposure to high concentration of dust may cause irritation to the respiratory tract.
- Symptoms/injuries after skin contact : Dust exposure may cause skin irritation.
- Symptoms/injuries after eye contact : Dust exposure may cause eye irritation.
- Symptoms/injuries after ingestion : Harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not flammable.
- Explosion hazard : None known.

5.3. Advice for firefighters

- Protection during firefighting : Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage. Avoid dust formation. Dust is best cleaned up by vacuum device to avoid making dust airborne. Wetting down before sweeping up dust may be a useful control measure.
- Methods for cleaning up : Collect and reuse where possible. Dispose of waste in accordance with local/state/federal regulations.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not breathe dust. Use proper work practices and adequate ventilation with dust collection to maintain airborne levels of silica below exposure limits.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store material in a dry place.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Quartz (14808-60-7)		
ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³ (respirable particulate matter)
OSHA	OSHA PEL (TWA) (mg/m ³)	50 µg/m ³ (25 µg/m ³ action level)
IDLH	US IDLH (mg/m ³)	50 mg/m ³ (respirable dust)
NIOSH	NIOSH REL (TWA) (mg/m ³)	0.05 mg/m ³ (respirable dust)
Calcium sulfate (7778-18-9)		
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (inhalable particulate matter)
OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
NIOSH	NIOSH REL (TWA) (mg/m ³)	10 mg/m ³ (total dust) 5 mg/m ³ (respirable dust)
Tobermorite (1319-31-9)		
Not applicable		

8.2. Exposure controls

Appropriate engineering controls	: General (mechanical) room ventilation is expected to be satisfactory for normal handling.
Hand protection	: Use suitable gloves to minimize skin contact.
Eye protection	: In case of dust production: protective goggles
Skin and body protection	: Wear suitable working clothes
Respiratory protection	: Work in the open air generally provides adequate ventilation. Dust extraction/collection equipment may be used if necessary to control airborne dust levels. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiration protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Rectangular
Color	: White
Odor	: Odorless
Odor threshold	: No data available
pH	: 10 - 11 (400 g / l H ₂ O)
Melting point	: >1200 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: No data available
Dry density	: 0.3 – 1.0 kg/dm ³
Solubility	: Insoluble
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

None.

10.5. Incompatible materials

Product is chemically stable in a neutral and basic environment. The action of acids must be avoided (heat development and/or release of carbon dioxide by neutralization reaction possible). Reacts with concentrated oxidants (heat development and/or accelerated decomposition of the oxidant possible)

10.6. Hazardous decomposition

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed.

Quartz (14808-60-7)	
ATE US (oral)	500 mg/kg
Calcium sulfate (7778-18-9)	
LD50 oral rat	> 3000 mg/kg

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : The dust of this product may cause cancer. During masonry work, which usually takes place outdoors, the dust is carried away by the wind. For interior work - e.g. dry milling/cutting of cable slots - higher dust loads may be expected. In these cases, dust extraction/collection equipment and/or respiratory protection may be used, if necessary, to control airborne dust levels.

Quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	2 - Known Human Carcinogens
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Calcium sulfate (7778-18-9)	
LC50 fish 1	2980 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
LC50 fish 2	> 1970 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

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12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on the ozone layer : No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Collect and reuse where possible. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Calcium sulfate (7778-18-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State regulations

Quartz (14808-60-7)

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Calcium sulfate (7778-18-9)

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 1A	Carcinogenicity Category 1A
H302	Harmful if swallowed
H350	May cause cancer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product