

Safety Data Sheet

1. IDENTIFICATION

Product Identifier WTZ 100 / WTZ 200
Other means of identification
Synonyms Chabazite or Clinoptilolite

Manufacturer/Importer/Supplier/Distributor Information

Address Fluid Tech LLC
146 Industrial Park Road
Sweetwater, TN 37874 USA
Telephone (800) 995-5691
Facsimile (800) 994-8561
Website www.fluidtechllc.com
Email address gbroda@fluidtechllc.com
Phone (865) 809-9995
Emergency Phone Contact Local Poison Control Center
Recommended Use Water Filtration, Sorbent, Odor Control/Desiccant, Flow Agent
Recommended Restrictions Not FDA approved for human consumption

2. HAZARD(S) IDENTIFICATION

Physical hazards May cause eye, skin and respiratory irritation.
Health hazards See below hazard statements
Environmental hazards Not classified.
OSHA defined hazards (GHS-US Classification)
Oral Toxicity 5 H303
Skin Irritant 3 H316
Eye Irritant 2B H320
STOT SE 3 H335

Label elements

Pictograms:



Signal words:

Warning

Hazard statements

H303 – May be harmful if swallowed.
H316 – Causes mild skin irritation.
H320 – Causes eye irritation.
H335 – May cause respiratory irritation.

Precautionary Statement

Prevention:

P261 – Avoid breathing dusts.
P264 – Wash hands, forearms & exposed areas thoroughly after handling.

	<p>P280 – Wear eye/face protection & protective gloves. Wear safety glasses or chemical goggles. Wear plastic, rubber or cotton gloves. <i>Refer to 29 CFR 1910.133 or European Standard EN166.</i></p> <p>P284 – Wear respiratory protection. Use NIOSH approved dust mask or respirator where dust occurs. <i>Refer to 29 CFR 1910.134 or European Standard EN149.</i></p> <p>P285 – In case of inadequate ventilation, wear respiratory protection.</p>
Response	<p>P301+P312 – <u>IF SWALLOWED</u>: Call a poison center or doctor if you feel unwell.</p> <p>P302+P352 – <u>IF ON SKIN</u>: Wash with plenty of soap and water.</p> <p>P332+P313 – If skin irritation persists, get medical advice/attention.</p> <p>P304+P341 – <u>IF INHALED</u>: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P304+P312 – <u>IF INHALED</u>: Call a poison center or doctor if you feel unwell.</p> <p>P305+P351+P338 – <u>IF IN EYES</u>: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>
Storage	None.
Disposal	P501 – Dispose of contents/container in accordance with local, regional, national and international regulations.
Hazard(s) not otherwise classified (HNOC)	<p>May contain greater than 0.10% free silica. Crystalline silica was not detected by X-Ray Defraction Analysis but may be present above the notification level of 0.10%. <i>(Crystalline silica is considered a hazard by inhalation. During October, 1996, IARC reviewed the literature for polymorphs of crystalline silica and determined that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobolite from occupational sources.)</i></p> <p>Does <u>not</u> contain asbestos or fibrous zeolite minerals.</p>
Supplemental information	
Unknown Acute Toxicity (GHS-US):	No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical name	Common name and synonyms	CAS number	%
Anhydrous Sodium Aluminosilicate		1318-02-1	100
Natural Herschelite - Sodium Chabazite			

4. FIRST-AID MEASURES

Inhalation

Move subject to fresh air. Rinse mouth & nasal passages with water. If irritation persists or worsens, seek medical attention.

Skin contact

Rinse with water. Use hand moisturizer to sooth dryness. If irritation persists or worsens, seek medical attention.

Eye contact

Remove contact lenses. Flush eyes with water for 15 minutes. If irritation persists or worsens, seek medical attention.

Ingestion

Move subject to fresh air. Rinse mouth & nasal passages with water. If irritation persists or worsens, seek medical attention.

Most important symptoms/effects, acute and delayed

Symptoms/Injuries after Ingestion: May cause dry cough, slight nausea.

Symptoms/Injuries after Skin Contact: Causes dry, rough skin.

Symptoms/Injuries after Eye Contact: Causes eye irritation, potential corneal scratching.

Symptoms/Injuries after Inhalation: May cause dry cough.

Notes to Physicians:

Fluid Tech LLC natural zeolite has no additives or materials that require special treatment. Some Fluid Tech LLC products, however, are treated to enhance their use for special applications.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Not applicable.

Unsuitable extinguishing media Not applicable.

Specific hazards arising from the chemical The product is not combustible or flammable.

Special protective equipment and precautions for firefighters Not applicable.

Fire fighting equipment/instructions In case of fire: Evacuate area. In case of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures General: No known adverse effects to the environment. Avoid breathing dust. Wear eye/face protection & protective gloves. Wear respiratory protection. Refer to Section 2 – Hazards Identification, Precautionary Statements.

For Emergency Personnel:	Protective Equipment: Use appropriate personal protection equipment (PPE). Emergency Procedures: Ventilate area.
For Non-Emergency Personnel:	Protective Equipment: Use appropriate personal protection equipment (PPE). Emergency Procedures: Evacuate unnecessary personnel.
Methods and materials for containment and cleaning up	Containment: Sweep, scoop, or vacuum discharged material. Clean-Up: Landfill according to local, state, national and international regulations.
Environmental precautions	There are no known adverse effects to the environment.

7. HANDLING AND STORAGE

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Hygiene Measures

- Keep container closed when not in use.
- Keep out of the reach of children.
- Store in a cool, dry area. Do not allow water to contact the product until time of use to preserve product utility.
- Keep container closed when not in use.
- Protect containers from abuse.
- Handle in accordance with good industrial hygiene and safety procedures. Wash hands with mild soap and water before eating, drinking or smoking and again when leaving work.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

USA ACGIH:

Recommended Threshold Limit:

Exposure Analysis Method:

Exposure Controls

Appropriate Engineering Controls:

Personal Protective Equipment:

Values have not been established

Ceiling Limit = 15 mg/m³ total dust
5mg/m³ Respirable Fraction

Respirable Sampler or Midget Impinger

See: J. Am. Ind. Hyg. Assoc., 28:554 (1967)

Ensure all national/local regulations are observed.



Eye Protection:

Hand Protection:

Respiratory Protection:

Thermal Hazard Protection:

Wear safety glasses or chemical goggles.

Wear plastic, rubber or cotton gloves.

If exposure limits are exceeded or irritation is experienced, wear NIOSH approved respiratory protection.

N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical & Chemical Properties	Chabazite	Clinoptilolite
Appearance	Dry Granules & Powders	Dry Granules & Powders
Physical state	Pulverized Rock	Pulverized Rock
Color	Yellowish, Reddish, Tan	White to Off-White, Greenish
Odor	Odorless	Odorless
Odor threshold	No Threshold	No Threshold
pH	Not Applicable (<i>Aqueous Liquids Only</i>)	Not applicable.
Melting point/freezing point	Not applicable/ No Data Available	1800 °F/ No Data Available
Initial boiling point and boiling range	Not applicable.	Not applicable.
Flash point	Not applicable.	Not applicable.
Evaporation rate	Not applicable.	Not applicable.
Flammability (solid, gas)	Not applicable.	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.	Not applicable.
Flammability limit – lower (%)	Non-flammable.	Non-flammable.
Flammability limit - upper (%)	Non-flammable.	Non-flammable.
Explosive limit - lower (%)	Not applicable.	Not applicable.
Explosive limit - upper (%)	Not applicable.	Not applicable.
Vapor pressure	Not applicable.	Not applicable.
Vapor density	Not applicable.	Not applicable.
Relative density	No Data Available	No Data Available
Bulk density	No Data Available	No Data Available
Solubility(ies)		
Solubility (water)	Negligible	0
Auto-ignition temperature	No Data Available	No Data Available
Decomposition temperature	No Data Available	No Data Available
Viscosity, dynamic @ 20 C	Not applicable.	Not applicable.
Other information	None Available	None Available
Percent volatile	Not applicable.	Not applicable.
Specific gravity	N/A (<i>Liquids Only</i>)	2.2 – 2.4

10. STABILITY AND REACTIVITY

Reactivity	Products are not considered flammable or combustible.
Chemical stability	Stable. No stabilizers needed. No safety issues.



Conditions to avoid	N/A	
Incompatible materials	No materials to avoid.	
Hazardous decomposition products	N/A	
NFPA Hazard Ratings:	Health Hazard: 1	Flammability Hazard: 0
	Reactivity: 0	Special Hazard: None

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms – Low Exposure

Symptoms – Severe Exposure

Inhalation	Respiratory irritation	Shortness of breath
Skin contact	Dry skin	Chapping
Eye contact	Itchy, irritated eyes	Corneal abrasions
Ingestion	Dry cough	Gagging

Information on toxicological effects

Acute toxicity	Not Classified
Skin corrosion/irritation	See "Symptoms above"

Serious eye damage/eye irritation	See "Symptoms above"
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Respiratory or skin sensitization

Respiratory sensitization	See "Symptoms above"
Skin sensitization	See "Symptoms above"

Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity	Not Listed as potential carcinogen in IARC Monographs
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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not Listed as potential carcinogen by OSHA
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US. National Toxicology Program (NTP) Report on Carcinogens	Not Listed on NTP Report on Carcinogens
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Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity – single exposure	May cause respiratory irritation.
Specific target organ toxicity - repeated exposure	Undocumented
Aspiration hazard	Not available.
Chronic effects	Prolonged inhalation may be harmful.

Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.

SARA 304 Emergency release notification
Not regulated.

SARA 311/312 Hazardous chemical
Yes.

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

California Prop 65, Safe Drinking Water & Toxic Enforcement Act of 1986

There are no chemicals present known to the State of California to cause cancer or reproductive toxicity.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

EPA RCRA Hazardous Waste Classification

If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.

International regulations

CPR (Canadian Controlled Products Regulations)

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. WHMIS Classification: Not controlled

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 3.

DSL/NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are not listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2, unless otherwise indicated.

EINECS (European Inventory of Existing Commercial Chemical Substances)

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances unless indicated as "not found".

WGK Water Quality Index: nwg

VbK Index: Not Applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Issue date June 5, 2015
Revision date November 6, 2018; January 18, 2020
Version # 01; 02
Further information This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Oral Toxicity 5	Acute Toxicity, Oral – Category 5
Skin Irritant 3	Skin Corrosion/Irritation – Category 3
Eye Irritant 2B	Serious Eye Damage/Irritation – Category 2B
STOT SE 3	Respiratory tract irritation – Category 3

Notes & Full R-Phrase Text: R20: Harmful by inhalation
 R36, R37, R38: Irritating to eyes, respiratory system and skin
HMIS III Ratings: Health = 1 Flammability = 0
 Physical Hazard = 0 Personal Safety Equipment = E

Definitions: * = Chronic Health Hazard E=Safety Glasses, Gloves, Respirator
 0 = Insignificant
 1 = Slight
 2 = Moderate
 3 = High
 4 = Extreme

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Revision Information Updated Section 1, address.
 Added WTZ 200 to Product Identifier.