

SAFETY DATA SHEET

1. Identification

Product identifier CFCOR CRUMBLES Other means of identification CAS number 1302-78-9 Synonyms SMECTITE CLAY 'BENTONITE Recommended use Not available. Recommended use Not available. Recommended restrictions Workers (and your customers or users in the case of resale) should be informed of the potential presence or respirable duat and respirable orgainable and swell as their potential heards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations. Manufacturer/Importer/Supplier/JUSTIBUTONITE Entropymental training in the proper use and handling of this material should be provided as required under applicable regulations. Company name Address CETCO, an MTI Company 2007 Forts Avenue Hoffman Estates. IL 60192 United States Telephone General Information 800 527-9943 Website http://www.cetco.com/ Emergency phone number Emergency E-mail safetydata@mineralstates. Category 1A Specific target organ toxicity, repeated exposure Carlingenicity Category 1A Specific target organ toxicity, repeated applicat hazards Category 1A Specific target organ toxicity, repeated applicat applications before use. Do not handle until all safety precautions have been read and understood. Do no the eath duary shapportspray. Wash throughly after handling. Do teat. dirk worke worke went using this product. Wear protective gloves/protective coloning/sys protection/face protection/face protective mode with undigas/mist/apportspray. Wash throughly after		
CAS number1302-78-9SynonymsSMECTITE CLAY 'BENTONITERecommended useNot available.Recommended restrictionsWorkers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust cust respirable customers or users in the case of resale) should be informed of the potential presence of respirable dust and respirable crystaline siles as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.Manufacturer/Importer/Suppler/Distributor information800 527-9948Company nameCETCO, an MTI Company 2870 Forbs AvenueAddress2870 Forbs AvenueHoffman Estates, IL 60192 United States1.866.519.4752/1760 476 3962TelephoneGeneral Information800 527-9948Websitehttp://www.csto.com/Emergency phone numberEmergency 1.866.519.4752/1760 476 3962Americas1.866.519.4752 (US, Canada, Mexico) 1 760 476 39622.Hazard(s) identificationCategory 1.Physical hazardsCarcinogenicitySpecific target organ toxicity, repeatedCategory 1.Specific target organ toxicity, repeatedCategory 1.AdeiseNot classified.Hazard statementMay cause cancer. Causes damage to organs through prolonged or repeated exposure.PreventionDangerAddress required organ toxicity, repeated to approximal hazardsNot classified.Emergency organ toxicity, repeated corgans through prolonged or repeated exposure.PreventionDangerAdarderine pr	Product identifier	CETCO® CRUMBLES
Synonyms SMECTITE CLAY* BENTONITE Recommended use Not available. Recommended restrictions Workers (and your customers or users in the case of resaile) should be informed of the potential hazards. Appropriate latining in the proper use and handling of this material should be provided as required under applicable regulations. Manufacturer/Importer/Supplie-Zbirer/Suplie-Zbirer/Supplie-Zbirer/S		
Recommended use Not available. Recommended restrictions Not available. Recommended restrictions Not available. Recommended restrictions Not available. Resonance Carpopriate training in the proper use and handling of this material should be provided as required under applicable regulations. Manufacturer/Importer/Supplet/Distributor information Manufacturer Company name CETCO, an MTI Company Address Not available. Address 2670 Forbs Avenue Hoffman Estates. Bot S27-9948 Website http://www.cetoo.com/ Email E-mail safetydata@mineralstech.com Emergency phone number Emergency 1.866.519.4752/1760.476.3962 Americas 1.46 classified. Physical hazards Caregony 1. Specific target organ toxicity. repeated Category 1. Category 1. Specific target organ toxicity. repeated Category 1. Category 1. Specific target organ toxicity. repeated Category 1. Category 1. Specific target organ toxicity. repeated to organ. Specific target organ toxicity. repe		
Recommended restrictions Workers (and your customers or users in the case of resaile) should be informed of the potential hazards. Appropriate training in the proper use and handling of this material should be provided as required under applicable ergulations. Manufacturer/Importer/Suppleter/Internation Barter internation Manufacturer/Importer/Suppleter/Internation Secondary internation Manufacturer Company name Address 2870 Forbs Avenue Hoffman Estates, IL 60192 Hoffman Estates, IL 60192 United States 005 527-9948 Website Hoffman Estates, IL 60192 Manufacturer 2870 Forbs Avenue Ernergency phone number Emergency 1.866.519.4752/US, Canada, Mexico) 1.760 476 3962 Arecondary 1.866.519.4752/I 760 476 3962 2.Hazard(s) identification 8.061 classified. Physical hazards Not classified. Begerice target organ toxicity, repeated exposure Category 1.4 Specific target organ toxicity, repeated exposure. Specific target organ toxicity, repeated exposure. Signal word Danger Hazard Statement May cause cancer. Causes damage to organs through prolonged or repeated exposure. Prevention Not classified. Data special instructions before use. Do not handle u	, ,	SMECTITE CLAY * BENTONITE
manufacturer/Importer/Suppilez/Distributor regulations. Manufacturer/Importer/Suppilez/Distributor information Manufacturer Company name 2870 Forbs Avenue Address 2870 Forbs Avenue Hoffman Estates, IL 60192 United States United States 800 527-9948 Website Hoffman Estates, IL 60192 United States 000 527-9948 Website 100/000 (1000000000000000000000000000000	Recommended use	
ManufacturerCompany name AddressCETCO, an MTI company 2870 Forbs Avenue Hoffman Estates, IL 60192 United StatesTelephone WebsiteGeneral Information 800 527-9948Telephone WebsiteGeneral Information states, IL 60192WebsiteHttp://www.cetco.com/ E-mailEmergency phone numberEmergency 1.866.519.4752/1 760 476 3962C. Hazard(s) identificationNot classified.Physical hazardsNot classified.BeatringCategory 1A Specific range or galaxie or galaxie or galaxie or galaxie.Specific range or galaxie or galaxie or galaxie or galaxie or galaxie or galaxie or galaxie.Category 1A Category 1A Specific range or galaxie.Specific range or galaxie or galaxie or galaxie or galaxie or galaxie or galaxie or galaxie.Category 1A Category 1Specific range or galaxie or galax	Recommended restrictions	presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required
Company name Address CETCO, an MTI Company 2870 Forbs Avenue Hoffman Estates, IL 60192 United States Telephone General Information & 800 527-9948 Website http://www.cetco.com/ E-mail safetydate@mineralstech.com Emergency phone number Emergency Americas 1.866.519.4752/1 760 476 3962 Americas 1.866.519.4752 (US, Canada, Mexico) 1760 476 3962 2. Hazard(s) identification Physical hazards Physical hazards Not classified. Heatth hazards Carcinogenicity Category 1A Specific target organ toxicity, repeated OSHA defined hazards Not classified. Label elements Environmental hazards Not classified. Frequentias Not classified. Environmental hazards Not classified. Hazard statement May cause cancer. Causes damage to organs through prolonged or repeated exposure. Precautionary statement May cause cancer. Causes damage to organs through prolonged or repeated exposure. Prevention Data special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not acat, drink or smoke when using this product. Wear protective glove	Manufacturer/Importer/Supplier/	Distributor information
Address 2870 Forbs Avenue Hoffman Estates, IL 60192 Hoffman Estates, IL 60192 United States General Information 800 527-9948 Website http://www.cetoc.com/ E-mail safetydata@mineralstech.com Emergency phone number Emergency 1.866.519.4752/1 760 476 3962 Americas 1.866.519.4752/1 760 476 3962 2. Hazard(s) identification Forba Avenue Physical hazards Not classified. Health hazards Category 1A Specific target organ toxicity, repeated Category 1A Specific target organ toxicity, repeated Category 1 oSHA defined hazards Not classified. Label elements Vot classified. Hazard statement May cause cancer. Causes damage to organs through prolonged or repeated exposure. Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/ume/gas/mist/vapors/spray. Wash thoroughly after handing. Do not each througe prolection. Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/ume/gas/mist/vapors/spray. Wash thoroughly after handing. Do not each chrokey prolection. Prevention	Manufacturer	
Website http://www.cetco.com/ E-mail safetydata@mineralstech.com Emergency phone number Emergency 1.866.519.4752/1 760 476 3962 Americas 1.866.519.4752 (US, Canada, Mexico) 1 760 476 3962 2. Hazard(s) identification Physical hazards Not classified. Physical hazards Carcinogenicity Category 1A Specific target organ toxicity, repeated Category 1 exposure Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. Label elements Vot classified. Frecautionary statement May cause cancer. Causes damage to organs through prolonged or repeated exposure. Precautionary statement Prevention Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not predetion/face protection. Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not predetion/face protection. Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not predetion/face protection. Presention Obtain special instructions dev when using this product. Wear protecti	Address	2870 Forbs Avenue Hoffman Estates, IL 60192 United States
E-mail safetydata@mineralstech.com Emergency phone number Emergency 1.866.519.4752/1760 476 3962 Americas 1.866.519.4752/1760 476 3962 2. Hazard(s) identification Image: Comparison of the second seco	-	
Emergency phone numberEmergency1.866.519.4752/1760 476 3962Americas1.866.519.4752 (US, Canada, Mexico) 1760 476 3962DescriptionSecondationPhysical hazardsNot classified.Health hazardsNot classified.BeatringCategory 1ASpecific target organ toxicity, repeated exposureCategory 1AEnvironmental hazardsNot classified.OSHA defined hazardsNot classified.OSHA defined hazardsNot classified.Signal wordDangerHazard statement Precationary statement PreventionMay cause cancer. Causes damage to organs through prolonged or repeated exposure.PreventionDotain special instructions before use. Do not breathe dust/tume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective cohning/eye protection/face protection.ResponseIf exposed or concerned: Get medical advice/attention.BioposalDisposalDisposalMazards(h) not oterwise classified (HNOC)Sof othe mixture consists of component(s) or unknown acute dermal toxicity. 8% of the mixture		•
Americas 1.866.519.4752 (US, Canada, Mexico) 1 760 476 3962 2. Hazard(s) identification Physical hazards Not classified. Physical hazards Not classified. Category 1A Health hazards Category 1A Category 1 Specific target organ toxicity, repeated Category 1 exposure Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. Jabel elements Not classified. Signal word Danger Hazard statement May cause cancer. Causes damage to organs through prolonged or repeated exposure. Precautionary statement Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective chring/se protection/face protection. Prevention Storage Store locked up. Disposal Dispose of contents/container in accordance with local/regional/national/international regulations. Hazard(s) not oterwise Stor hown. Storage or contents/container in accordance with local/regional/national/international regulations. Mazard statement information Storage or contentsist of component(s)		•
2. Hazard(s) identification Not classified. Physical hazards Not classified. Health hazards Carcinogenicity Category 1A Specific target organ toxicity, repeated Category 1 exposure Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. OSHA defined hazards Not classified. Signal word Not classified. Hazard statement May cause cancer. Causes damage to organs through prolonged or repeated exposure. Precautionary statement May cause cancer. Causes damage to organs through prolonged or repeated exposure. Precautionary statement Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Response If exposed or concerned: Get medical advice/attention. Storage Storage Dispose of contents/container in accordance with local/regional/national/international regulations. Hazard (s) not otherwise Category of the mixture consists of component(s) of unknown acute dermal toxicity. 8% of the mixture		
Physical hazards Not classified. Health hazards Carcinogenicity Category 1A Specific target organ toxicity, repeated Category 1 exposure Category 1 Environmental hazards Not classified. OSHA defined hazards Not classified. OSHA defined hazards Not classified. Signal word Danger Hazard statement May cause cancer. Causes damage to organs through prolonged or repeated exposure. Precautionary statement May cause cancer. Causes damage to organs through prolonged or repeated exposure. Precautionary statement Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/tume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protec	Americas	1.000.519.4752 (US, Callada, Mexico) 1 700 476 5962
Health hazards Carcinogenicity Category 1A Specific target organ toxicity, repeated Category 1 exposure Not classified. OSHA defined hazards Not classified. OSHA defined hazards Not classified. Label elements Vot classified. Signal word Danger Hazard statement May cause cancer. Causes damage to organs through prolonged or repeated exposure. Precautionary statement May cause cancer. Causes damage to organs through prolonged or repeated exposure. Precautionary statement Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Response If exposed or concerned: Get medical advice/attention. Storage Dispose of contents/container in accordance with local/regional/national/international regulations. Hazard(s) not otherwise classified (HNNOC) None known. Supplemental information 8% of the mixture consists of component(s) of unknown acute dermal toxicity. 8% of the mixture		
Specific target organ toxicity, repeated exposureCategory 1 exposureEnvironmental hazardsNot classified.OSHA defined hazardsNot classified.Datasified hazardsNot classified.Label elementsImage: Image: Imag	-	
exposureEnvironmental hazardsNot classified.OSHA defined hazardsNot classified.Label elementsImage: Composition of the statement o	Health hazards	
OSHA defined hazards Not classified. Label elements Image: Comparison of the state of the st		
Label elements Image: Signal word Danger Hazard statement May cause cancer. Causes damage to organs through prolonged or repeated exposure. Precautionary statement Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Response If exposed or concerned: Get medical advice/attention. Storage Store locked up. Disposal Dispose of contents/container in accordance with local/regional/national/international regulations. Hazard(s) not otherwise classified (HNOC) S% of the mixture consists of component(s) of unknown acute dermal toxicity. 8% of the mixture	Environmental hazards	Not classified.
Signal wordDangerHazard statementMay cause cancer. Causes damage to organs through prolonged or repeated exposure.Precautionary statementMay cause cancer. Causes damage to organs through prolonged or repeated exposure.Precautionary statementObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.ResponseIf exposed or concerned: Get medical advice/attention.StorageStore locked up.DisposalDispose of contents/container in accordance with local/regional/national/international regulations.Hazard(s) not otherwise classified (HNOC)None known.Supplemental information8% of the mixture consists of component(s) of unknown acute dermal toxicity. 8% of the mixture	OSHA defined hazards	Not classified.
Hazard statementMay cause cancer. Causes damage to organs through prolonged or repeated exposure.Precautionary statementObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.ResponseIf exposed or concerned: Get medical advice/attention.StorageStore locked up.DisposalDispose of contents/container in accordance with local/regional/national/international regulations.Hazard(s) not otherwise classified (HNOC)StorageS% of the mixture consists of component(s) of unknown acute dermal toxicity. 8% of the mixture	Label elements	
Hazard statementMay cause cancer. Causes damage to organs through prolonged or repeated exposure.Precautionary statementObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.ResponseIf exposed or concerned: Get medical advice/attention.StorageStore locked up.DisposalDispose of contents/container in accordance with local/regional/national/international regulations.Hazard(s) not otherwise classified (HNOC)StorageS% of the mixture consists of component(s) of unknown acute dermal toxicity. 8% of the mixture		
Precautionary statementObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.ResponseIf exposed or concerned: Get medical advice/attention.StorageStore locked up.DisposalDispose of contents/container in accordance with local/regional/national/international regulations.Hazard(s) not otherwise classified (HNOC)Store known.Supplemental information8% of the mixture consists of component(s) of unknown acute dermal toxicity. 8% of the mixture	Signal word	Danger
PreventionObtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.ResponseIf exposed or concerned: Get medical advice/attention.StorageStore locked up.DisposalDispose of contents/container in accordance with local/regional/national/international regulations.Hazard(s) not otherwise classified (HNOC)None known.Supplemental information8% of the mixture consists of component(s) of unknown acute dermal toxicity. 8% of the mixture	Hazard statement	May cause cancer. Causes damage to organs through prolonged or repeated exposure.
and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.ResponseIf exposed or concerned: Get medical advice/attention.StorageStore locked up.DisposalDispose of contents/container in accordance with local/regional/national/international regulations.Hazard(s) not otherwise classified (HNOC)None known.Supplemental information8% of the mixture consists of component(s) of unknown acute dermal toxicity. 8% of the mixture	Precautionary statement	
StorageStore locked up.DisposalDispose of contents/container in accordance with local/regional/national/international regulations.Hazard(s) not otherwise classified (HNOC)None known.Supplemental information8% of the mixture consists of component(s) of unknown acute dermal toxicity. 8% of the mixture	Prevention	and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective
DisposalDispose of contents/container in accordance with local/regional/national/international regulations.Hazard(s) not otherwise classified (HNOC)None known.Supplemental information8% of the mixture consists of component(s) of unknown acute dermal toxicity. 8% of the mixture	Response	If exposed or concerned: Get medical advice/attention.
Hazard(s) not otherwise classified (HNOC)None known.Supplemental information8% of the mixture consists of component(s) of unknown acute dermal toxicity. 8% of the mixture	Storage	Store locked up.
classified (HNOC)Supplemental information8% of the mixture consists of component(s) of unknown acute dermal toxicity. 8% of the mixture	Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
		None known.
	Supplemental information	

3. Composition/information on ingredients

Mixtures

Mixtures			
Chemical name	Common name and synonyms	CAS number	%
QUARTZ (SIO2)		14808-60-7	5 - < 10
CRISTOBALITE		14464-46-1	1 - < 3
Other components below repor	table levels		90 - 100
Constituents			
Chemical name	Common name and synonyms	CAS number	%
INERT OR NUISANCE DUSTS	PARTICLES NOT OTHERWISE REGULATED	SEQ250	
*Designates that a specific chemic	cal identity and/or percentage of composition ha		cret.
Composition comments	Occupational Exposure Limits for constituent	s are listed in Section 8.	
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom		
Skin contact	Wash off with soap and water. Get medical a		nd persists.
Eye contact	Rinse with water. Get medical attention if irrit		
Ingestion	Rinse mouth. Get medical attention if sympto		
Most important symptoms/effects, acute and delayed	Prolonged exposure may cause chronic effect	ts.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and tre Symptoms may be delayed.	at symptomatically. Keep victi	m under observation.
General information	IF exposed or concerned: Get medical advice (show the label where possible). Ensure that involved, and take precautions to protect the	medical personnel are aware	
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carb	oon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th	is will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may b	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full p	rotective clothing must be wor	n in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do	so without risk.	
Specific methods	Use standard firefighting procedures and con	sider the hazards of other invo	lved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep pe adequate ventilation. Local authorities should contained. For personal protection, see section	be advised if significant spilla	
Methods and materials for containment and cleaning up	Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.		
Environmental precautions	Avoid discharge into drains, water courses or	onto the ground.	
7. Handling and storage			
Precautions for safe handling	Obtain special instructions before use. Do no and understood. Keep formation of airborne of prolonged exposure. When using, do not eat systems, if possible. Provide adequate ventile equipment. Wash hands thoroughly after har	dusts to a minimum. Do not br , drink or smoke. Should be ha ation. Wear appropriate perso	eathe dust. Avoid Indled in closed nal protective
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly close away from incompatible materials (see Section		each of children. Store

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	s for Air Contaminants (29 CFR 1910.1000) Type	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
US. OSHA Table Z-3 (29 C	FR 1910.1000)		
Components	Туре	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Lim Components	it Values Type	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide	to Chemical Hazards		
Components	Туре	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
logical limit values	No biological exposure limits noted for the	ingredient(s).	
oosure guidelines	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.		
propriate engineering htrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilatior or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		
ividual protection measure	s, such as personal protective equipment		·
Eye/face protection	Wear safety glasses with side shields (or g	goggles).	
Skin protection Hand protection	Wear appropriate chemical resistant glove	es.	
Other	Use of an impervious apron is recommend		
Respiratory protection	Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
neral hygiene nsiderations	Observe any medical surveillance requirements.		
Physical and chemical	properties		
pearance	F - F		
Physical state	Solid.		

Physical state	Solid.
Form	Solid.
Color	Not available.
Odor	Not available.
Odor threshold	Not applicable.

рН	8.5 - 11
Melting point/freezing point	> 842 °F (> 450 °C) / Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	2.6 g/cm ³
Solubility(ies)	
Solubility (water)	< 0.9 mg/l
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	> 932 °F (> 500 °C)
Viscosity	Not applicable.
Viscosity temperature	Not applicable.
Other information	
Bulk density	0.9 - 1.4 g/cm ³
Explosive limit	Not applicable.
Explosive properties	Not explosive.
Explosivity	Not applicable.
Flame extension	Not applicable.
Flammability	Not applicable.
Flammability (flash back)	Not applicable.
Flammability (Heat of combustion)	Not applicable.
Flammability (Train fire)	Not applicable.
Flammability class	Not applicable.
Flash point class	Not flammable
Molecular formula	UVCB Substance
Molecular weight	Not applicable.
Oxidizing properties	Not oxidizing.
Percent volatile	0 %
pH in aqueous solution	8.5 - 11
Specific gravity	Not applicable.
VOC	CARB 0 %
10. Stability and reactivity	

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.

Conditions to avoid	Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.
Incompatible materials	Powerful oxidizers. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity	Not known.	
Product	Species	Test Results
Bentonite (CAS 1302-78-9) <u>Acute</u> Inhalation Dust		
LC50 Oral Dust	Rat	> 5.27 mg/l, 4 hr OECD 436
LD50	Rat	> 2000 mg/kg OECD 425
Skin corrosion/irritation	Prolonged skin contact ma	y cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes m	ay cause temporary irritation.
Respiratory or skin sensitization Respiratory sensitization	Not a respiratory sensitize	·
Skin sensitization	This product is not expected	ed to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk" (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.	
IARC Monographs. Overall I	•	ity
QUARTZ (SIO2) (CAS 14 OSHA Specifically Regulate	d Substances (29 CFR 191	1 Carcinogenic to humans. 0.1001-1052)
QUARTZ (SIO2) (CAS 14		Cancer
US. National Toxicology Pro	• • • •	-
QUARTZ (SIO2) (CAS 14 Reproductive toxicity	*	Known To Be Human Carcinogen. ed to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Εc	ot	ox	ic	itv
	,σι	07	10	ı ty

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results	
Bentonite (CAS 1302-78-9)				
Aquatic				
Algae	EC50	Freshwater algae	> 100 mg/l, 72 hours	
Crustacea	EC50	Coon stripe shrimp (Pandalus danae)	24.8 mg/l, 96 hours	
		Daphnia	> 100 mg/l, 48 hours	
		Dungeness or edible crab (Cancer magister)	81.6 mg/l, 96 hours	
Fish	LC50	Freshwater fish	16000 mg/l, 96 hours	
		Marine water fish	2800 - 3200 mg/l, 24 hours	
rsistence and degradability	No data is a	No data is available on the degradability of any ingredients in the mixture.		
paccumulative potential	No data ava	No data available.		
bility in soil	No data ava	No data available.		
her adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
B. Disposal consideration	ons			
sposal instructions		Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.		
cal disposal regulations	Dispose in a	Dispose in accordance with all applicable regulations.		

Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste
disposal company.Waste from residues / unusedDispose of in accordance with local regulations. Empty containers or liners may retain some

productsproduct residues. This material and its container must be disposed of in a safe manner (see:
Disposal instructions).Contaminated packagingSince emptied containers may retain product residue, follow label warnings even after container is

ated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

QUARTZ (SIO2) (CAS 14808-60-7)

Cancer lung effects immune system effects kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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.Food and Drug
Administration (FDA)Total food additive
Direct food additive
GRAS food additive

US state regulations

California Proposition 65



WARNING: This product can expose you to QUARTZ (SIO2), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

QUARTZ (SIO2) (CAS 14808-60-7) Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

QUARTZ (SIO2) (CAS 14808-60-7)

International Inventories

Country(s) or region	Inventory name Or	n inventory (yes/no)*	
Australia	Australian Inventory of Chemical Substances (AICS)	No	
Canada	Domestic Substances List (DSL)	No	
Canada	Non-Domestic Substances List (NDSL)	No	
China	Inventory of Existing Chemical Substances in China (IECSC)	No	
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No	
Europe	European List of Notified Chemical Substances (ELINCS)	No	
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes	
Korea	Existing Chemicals List (ECL)	No	
New Zealand	New Zealand Inventory	No	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No	
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No	
*A "Vea" indicates that all components of this product comply with the inventory requirements administered by the approxime country(a)			

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

05-December-2013

Revision date	23-July-2018
Version #	09
HMIS® ratings	Health: 3* Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 2 Flammability: 0 Instability: 0
Disclaimer	CETCO, an MTI Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.