

SAFETY DATA SHEET

Distributed By:



2 Madison Ave. Larchmont. NY 10538

1. Identification		2 Madison Ave. Larchmont, NT 10538
Product identifier	VOLCLAY® KWK KRYSTAL	Ph: 914-834-1881 Fax: 914-834-4611
Other means of identification		
Synonyms	Smectite * Bentonite * Bentonite Montmorillonite	e, Sodian * Bentonite, Calcian * Sodium-activated Bentonite *
Recommended use	Bentonite has a variety of uses. hydraulic-barrier, and filler.	It can be used as a rheology modifier, binding agent, adsorbent,
Recommended restrictions	presence of respirable dust and	r users in the case of resale) should be informed of the potential respirable crystalline silica as well as their potential hazards. er use and handling of this material should be provided as required
Manufacturer/Importer/Supplier	/Distributor information	
Manufacturer		
Company name	American Colloid Company	
Address	2870 Forbs Avenue	
	Hoffman Estates, IL 60192	
	United States	
Telephone	General Information	800 426-5564
Website	http://www.colloid.com/ISG/	
E-mail	safetydata@mineralstech.com	
Emergency phone number	Not available.	

Americas

Not available. 1.866.519.4752 (US, Canada, Mexico) 1 760 476 3962 Access Code 333562, (Available 24 hours a day. SDS/Product information may not be available for the Emergency Services.)

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The substance does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Bentonite	Smectite Bentonite Bentonite, Sodian Bentonite, Calcian Sodium-activated Bentonite Montmorillonite	1302-78-9	100
UVCB substance sub-type 4. The p composition is varied, as expected	al identity and/or percentage of composition has be purity of the product is 100 % w/w. Bentonite is cor for a UVCB substance, and other mineral constitu are not relevant for classification and labelling.	nposed mainly of smectite	group minerals but t
Composition comments	Occupational Exposure Limits for constituents ar occurring crystalline silica (not listed in Annex I o 10%.	e listed in Section 8. Bento f Directive 67/548/EEC) in	onite contains natural quantities less than
4. First-aid measures			
Inhalation	Move to fresh air. If symptoms are experienced, fresh air. If the affected person is not breathing, a give oxygen. Call a physician if symptoms develo	apply artificial respiration. I op or persist.	f breathing is difficult
Skin contact	Get medical attention if irritation develops and pe	ersists. No specific first aid	measures noted.
Eye contact	Do not rub eyes. Flush eyes immediately with lar irritation develops and persists.	ge amounts of water. Get	medical attention if
Ingestion	No special measures required		
Most important symptoms/effects, acute and delayed	Dust in the eyes will cause irritation. Dusts may i	rritate the respiratory tract	, skin and eyes.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat s	ymptomatically.	
General information	Ensure that medical personnel are aware of the protect themselves.	material(s) involved, and ta	ake precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.	Use any media suitable for	or the surrounding fire
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this w	vill spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be for	rmed.	
Special protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing app. (approved or equivalent) and full protective gear.		
Fire fighting equipment/instructions	Use water spray to cool unopened containers.		
Specific methods	Use standard firefighting procedures and conside	er the hazards of other invo	olved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	ures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Material can protective equipment and clothing during clean-u there is a risk of exposure to dust/fume at levels protection, see section 8 of the SDS.	p. Use a NIOSH/MSHA ap	proved respirator if
Methods and materials for containment and cleaning up	This product is miscible in water. Stop the flow of a vacuum cleaner equipped with HEPA filter.	f material, if this is without	risk. Collect dust usi
	Large Spills: Wet down with water and dike for la container. Collect dust or particulates using a vac generation of dusts during clean-up. Following provide the second se	cuum cleaner with a HEPA	filter. Avoid the
	Small Spills: Sweep up or vacuum up spillage an waste disposal, see section 13 of the SDS. None scattering by moistening with water.		
Environmental precautions	Avoid discharge into drains, water courses or one precautions required.	to the ground. No special e	environmental

7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities

No special restrictions on storage with other products. Store in original tightly closed container. Store in a well-ventilated place. Guard against dust accumulation of this material. No special storage conditions required. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-3 (29 CFR 1910.1000)				
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.	
Biological limit values	No biological exposure limits noted for the	ingredient(s).		
Exposure guidelines	Occupational exposure to nuisance dust (t should be monitored and controlled.	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.		
Appropriate engineering controls	If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL, suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.			
Individual protection measures	s, such as personal protective equipment			
Eye/face protection	Wear dust goggles.			
Skin protection				
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.			
Other	No special protective equipment required.			
Respiratory protection	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.			
Thermal hazards	Wear appropriate thermal protective clothi	ng, when necessary.		
General hygiene considerations	Always observe good personal hygiene me and before eating, drinking, and/or smokin equipment to remove contaminants. Eye w hygiene practices in handling this material	g. Routinely wash work o ash fountain is recomme	clothing and protective	

9. Physical and chemical properties

Appearance		
Physical state	Solid.	
Form	Powder. Granular.	
Color	Various.	
Odor	None.	
Odor threshold	Not available.	
рН	9 In presence of water, forms translucent suspension with pH approx. 9.0	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not available.	
Flash point	Non-flammable	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or explosive limits		
Flammability limit - lower (%)	Non-explosive	

Flammability limit - upper (%)	Non-explosive
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.000004 kPa at 25 °C
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Negligible
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	MUL = 200mg/L.
Explosive properties	Not explosive.
Molecular formula	UNKNOWN
Oxidizing properties	Not oxidizing.
VOC (Weight %)	CARB

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Will not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	None known.
Hazardous decomposition products	None known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Dust may irritate respiratory system.
Skin contact	Dust or powder may irritate the skin.
Eye contact	Dust may irritate the eyes.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Dusts may irritate the respiratory tract, skin and eyes.
Information on toxicological effe	ects
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Mild irritant to eyes (according to the modified Kay & Calandra criteria)
Respiratory or skin sensitizatior	1
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity	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. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.
	Evaluation of Carcinogenicity
Not available. US. National Toxicology Pro	ogram (NTP) Report on Carcinogens
Not available.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	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. Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

12. Ecological information

Ecotoxicity	This material i	s not expected to be harmful to aquatic life	<u>).</u>
Product		Species	Test Results
Bentonite (CAS 1302-78-9) Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	19000 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other 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.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused
productsDispose of in accordance with local regulations. Empty containers or liners may retain some
product 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
emptied. Empty containers should be taken to an approved waste handling site for recycling or
disposal. Store containers and offer for recycling of material when in accordance with the local
regulations.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according toNot applicable.Annex II of MARPOL 73/78 andthe IBC Code

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting) Not regulated.

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

- US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100) Not listed.
- US. Massachusetts RTK Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania Worker and Community Right-to-Know Law Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerte Dice	Toxic Substances Control Act (TSCA) Inventory	Voc

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes *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

Issue date	17-October-2013
Revision date	03-May-2016
Version #	30
Further information	This safety datasheet only contains information relating to safety and does not replace any product information or product specification.
HMIS® ratings	Health: 0 Flammability: 0 Physical hazard: 0
NFPA ratings	Health: 0 Flammability: 0 Instability: 0
List of abbreviations	
	SWERF = Size-Weighted Relevant Fine Fraction methodology is a scientific method developed to quantify the content of respirable particles within a bulk product. All details about the SWERF method are available at www.crystallinesilica.eu.
	UVCB = a substance of Unknown or Variable composition, Complex reaction products or Biological materials
References	For any information on literature references or toxicity/ecotoxicity studies, please contact the supplier.
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. ACC - Industrial Specialties Group 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	Product and Company Identification: Alternate Trade Names Stability and reactivity: Conditions to avoid