## **SAFETY DATA SHEET**



Distributed By:

**\*\***atpgroup

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1. Identification

Product identifier VOLCLAY® KWK

Other means of identification

Svnonvms

Smectite \* Bentonite \* Bentonite, Sodian \* Bentonite, Calcian \* Sodium-activated Bentonite \*

Montmorillonite

**Recommended use**Bentonite has a variety of uses. It can be used as a rheology modifier, binding agent, adsorbent,

hydraulic-barrier, and filler.

Recommended restrictions Workers (and your customers or users in the case of resale) should be informed of the potential

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

under applicable regulations.

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 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** 

Material name: VOLCLAY® KWK

Chemical name	Common name and synonyms	CAS number	%
Bentonite	Smectite	1302-78-9	100
	Bentonite		
	Bentonite, Sodian		
	Bentonite, Calcian		
	Sodium-activated Bentonite		
	Montmorillonite		

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret. Bentonite is a UVCB substance sub-type 4. The purity of the product is 100 % w/w. Bentonite is composed mainly of smectite group minerals but the composition is varied, as expected for a UVCB substance, and other mineral constituents will be present in small and varying amounts. These minor constituents are not relevant for classification and labelling.

**Composition comments** 

Occupational Exposure Limits for constituents are listed in Section 8. Bentonite contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 10%.

#### 4. First-aid measures

Inhalation

Move to fresh air. If symptoms are experienced, remove source of contamination or move victim to fresh air. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Call a physician if symptoms develop or persist.

Skin contact Eye contact

Get medical attention if irritation develops and persists. No specific first aid measures noted. Do not rub eyes. Flush eyes immediately with large amounts of water. Get medical attention if

Dust in the eyes will cause irritation. Dusts may irritate the respiratory tract, skin and eyes.

irritation develops and persists. No special measures required

protect themselves.

Most important

symptoms/effects, acute and

delayed

Ingestion

Indication of immediate medical attention and special

treatment needed

**General information** 

Provide general supportive measures and treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

Dry chemical, CO2, water spray or regular foam. Use any media suitable for the surrounding fires.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions

Specific methods General fire hazards During fire, gases hazardous to health may be formed.

Do not use water jet as an extinguisher, as this will spread the fire.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Material can be slippery when wet.

Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Material can be slippery when wet. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up This product is miscible in water. Stop the flow of material, if this is without risk. Collect dust using a vacuum cleaner equipped with HEPA filter.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Collect dust or particulates using a vacuum cleaner with a HEPA filter. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS. None necessary. Reduce airborne dust and prevent scattering by moistening with water.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground. No special environmental precautions required.

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#### 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.	

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica **Exposure guidelines** 

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, such as personal protective equipment

Eye/face protection Wear dust goggles.

Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove Hand protection

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.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Eye wash fountain is recommended. Use good industrial

hygiene practices in handling this material.

#### 9. Physical and chemical properties

**Appearance** 

Solid. Physical state

Powder. Granular. **Form** 

Various. Color None. Odor

**Odor threshold** Not available.

9 In presence of water, forms translucent suspension with pH approx. 9.0 Hq

Not available. Melting point/freezing point Initial boiling point and boiling Not available.

range

Flash point Non-flammable Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower Non-explosive

(%)

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Flammability limit - upper

(%)

Non-explosive

Not available. Explosive limit - lower (%)

Explosive limit - upper (%) Not available.

0.000004 kPa at 25 °C Vapor pressure

Not available. Vapor density Relative density Not available.

Solubility(ies)

Solubility (water) Negligible **Partition coefficient** Not available.

(n-octanol/water)

**Auto-ignition temperature** Not available. Not available. **Decomposition temperature Viscosity** Not available. MUL = 200mg/L. Other information Not explosive. **Explosive properties** Molecular formula UNKNOWN **Oxidizing properties** Not oxidizing. VOC (Weight %) **CARB** 

## 10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

**Chemical stability** Stable at normal conditions.

Possibility of hazardous

reactions

Will not occur.

Conditions to avoid Contact with incompatible materials.

Incompatible materials None known. None known. Hazardous decomposition

products

#### 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

Information on toxicological effects

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Mild irritant to eyes (according to the modified Kay & Calandra criteria)

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

According to the classification criteria of the European Union, the product is not considered as Skin sensitization

being a skin irritant.

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

Dusts may irritate the respiratory tract, skin and eyes.

mutagenic or genotoxic.

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#### 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.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not available.

## US. National Toxicology Program (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.)

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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 is not expected to be harmful to aquatic life.

Product		Species	Test Results
Bentonite (CAS 1302-78-	9)		
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	19000 mg/l, 96 hours

<sup>\*</sup> 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.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

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Waste from residues / unused

products

Dispose 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 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. 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 to

Not applicable.

Annex II of MARPOL 73/78 and

the 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)

**Hazard categories** 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

Nο

chemical

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

Not regulated.

(SDWA)

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

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.

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#### **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)

Korea Existing Chemicals List (ECL)

New Zealand Inventory

Philippines Philippine Inventory of Chemicals and Chemical Substances

Yes

(PICCS)

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

Yes

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

Issue date17-October-2013Revision date03-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.covetallinesilies.ou

 $method\ are\ available\ at\ www.crystalline silica.eu.$ 

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

Material name: VOLCLAY® KWK

<sup>\*</sup>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).