

# **Safety Data Sheet**

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1. Identification TKB's Thickening Clay

Product identifier Not available.

Other means of identification

Recommended use

TKB's Thickening Clay products offer viscosity control in formulations using polymer resins such as unsaturated polyesters, epoxies and vinyl esters, polyurethane, alkyds, sealants, etc.

Additive for use in Personal Care products Application in, and as an aid for the cosmetics industry

# 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

OSHA defined hazards Combustible dust

Label elements

Hazard symbol None.
Signal word Warning

Hazard statement May form combustible dust concentrations in air.

**Precautionary statement** 

Prevention

Prevent dust accumulation to minimize explosion hazard.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

Response

P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use appropriate media to extinguish.

Storage Not available.

Disposal Not available.

Hazard(s) not otherwise

classified (HNOC)

WARNING! May form combustible dust concentrations in air (during processing)

Material can be slippery when wet.

Supplemental information None

# 3. Composition/information on ingredients

## Substances

Chemical name	Common name and synonyms	CAS number	%
Alkyl quaternary ammonium clay		Not assigned	100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a

physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. Take off

contaminated clothing and wash before reuse.

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Eye contact

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth with water. Get medical attention if symptoms occur. If ingestion of a large amount

does occur, seek medical attention.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

None known. Dusts may irritate the respiratory tract, skin and eyes.

Provide general supportive measures and treat symptomatically.

treatment needed
General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. No hazards which require special first aid measures.

## 5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust. Use fire-extinguishing media appropriate for surrounding materials.

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

Specific hazards arising from the chemical Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases

In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. In case of fire and/or

hazardous to health may be formed.

Take precautionary measures against static discharge.

Material can be slippery when wet.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

explosion do not breathe fumes.

equipment/instructions Specific methods General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials. High concentration of airborne dust may form explosive mixture with air. This product is

combustible at high temperatures.

Material can be slippery when wet

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Use only non-sparking tools. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter.

Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Never return spills to original containers for re-use. Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Nonsparking tools should be used. For waste disposal, see section 13 of the SDS.

**Environmental precautions** 

No special environmental precautions required.

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Do not flush into surface water. Do not let product enter drains.

## 7. Handling and storage

#### Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Do not breathe dust from this material. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Protect from moisture. Avoid dust formation. Keep away from heat, sparks and open flame. Keep containers tightly closed in a dry, cool and well-ventilated place. Guard against dust accumulation of this material. Store away from incompatible materials (see Section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Additional components	Туре	Value	Form
Nuisance dust. (CAS:N/A)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
	TWA	5 mg/m3	Respirable fraction.
		15 mppcf	Respirable fraction.
		50 mppcf	Total dust.
		15 mg/m3	Total dust.

Biological limit values

controls

Appropriate engineering

No biological exposure limits noted for the ingredient(s).

Explosion-proof general and local exhaust ventilation. 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 ventilation, 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. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. Use only appropriately classified electrical equipment and powered industrial trucks.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygendeficient environment.

#### Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields.
Use tight fitting goggles if dust is generated.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Use protective skin cream before handling the product. Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

Other

Wear suitable protective clothing. Normal work clothing (long sleeved shirts and long pants) is

recommended.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a right of exposure to dust/firms at levels exceeding the exposure limits.

if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Thermal hazards Not available.

General hygiene considerations Do not breathe dust. When using, do not eat, drink or smoke. Avoid contact with eyes. 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.

## 9. Physical and chemical properties

Appearance Powder.

Physical state Solid.

Form Powder.

Color Not available.

Odor Odorless.

Odor threshold Not applicable

pH Not applicable
Melting point/freezing point Not applicable
Initial boiling point and boiling Not applicable

range

Flash point Not applicable
Evaporation rate Not applicable
Flammability (solid, gas) Not applicable
Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

 $0.18 \, g/l$ 

Flammability limit - upper

(%)

Not applicable

Explosive limit - lower (%) Not applicable
Explosive limit - upper (%) Not applicable
Vapor pressure Not applicable
Vapor density Not applicable
Relative density Not available.

Solubility(ies)

Solubility (water) Insoluble

Auto-ignition temperature 590 °F (310 °C) Thin film ignition

Decomposition temperature Not applicable Viscosity Not applicable

Other information

Percent volatile 0 % estimated

Specific gravity 1.50 - 1.80 Estimated

## 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. Hazardous polymerization does not

Conditions to avoid

Keep away from heat, sparks and open flame. Avoid dust close to ignition sources. Exposure to

moisture.

Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces

with compressed air). Minimize dust generation and accumulation.

Incompatible materials

**Hazardous decomposition** 

products

None known.

No dangerous reaction known under conditions of normal use. No hazardous decomposition

products are known.

# 11. Toxicological information

Information on likely routes of exposure

InhalationInhalation of dusts may cause respiratory irritation.Skin contactNo adverse effects due to skin contact are expected.

Eye contact Dust in the eyes will cause irritation.

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 effects

#### **Acute toxicity**

Product	Species	Test Results
TKB's Thickening Clay		
Acute		
Dermal		
LD50	Rat	2000 mg/kg estimated
Oral		
LD50	Rat	5000 mg/kg estimated

Components Species Test Results

Alkyl quaternary ammonium clay (CAS Not assigned)

Acute

Dermal

LD50 Rat 2000 mg/kg similar substance

Oral

LD50 Rat 5000 mg/kg similar substance

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

Serious eye damage/eye

irritation

Dust in the eyes will cause irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected 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 This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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.

repeated expectate

Aspiration hazard

Not available.

# 12. Ecological information

**Ecotoxicity**Not expected to be harmful to aquatic organisms. 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.

Persistence and degradability

Not inherently biodegradable. No data is available on the degradability of this product.

**Bioaccumulative potential** 

No data available.

Mobility in soil

No data available. Bentonite is almost insoluble and thus presents a low mobility in most soils

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. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Not

expected to be harmful to aquatic organisms.

#### 13. Disposal considerations

Disposal 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.

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

products

Material should be recycled if possible.

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). Dispose of in accordance with local

regulations. Can be landfilled, when in compliance with local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

## 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

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

## 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed

#### SARA 304 Emergency release notification

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - Yes 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.

#### 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)

#### **US** state regulations

## US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed

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

Not listed.

## US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

## **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
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 New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
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)

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

Issue date May-12-2015

Version # 01

Further information Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the

Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

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document accuracy if the revision date has exceeded 3 years.

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