Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date: 8/24/2018 Reviewed on: 8/24/2018

1. Identification

Product identifier

Trade name	B-80
CAS Number	No information available.
Synonyms	No information available.
Recommended use of the chemical and restrictions on use	No further relevant information available.
Product description	Mineral pigment, or filler primarily used in paper, paper coatings, paints, adhesives, fluid cracking catalysts and plastic formulations.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier	Thiele Kaolin Company 520 Kaolin Road P.O. Box 1056 Sandersville, Georgia 31082 U.S.A. (478) 552-3951
Email	SafetyDataSheet@thielekaolin.com
Website	Thielekaolin.com
Contact Person	Andy Crabb
Emergency Telephone	478-552-3951

2. Hazard(s) identification

Classification of the substance or mixture

GHS08 Health hazard

Carc. 1A H350 May cause cancer.

STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure.

Route of exposure: Inhalative.

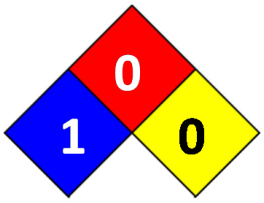
Label elements

GHS label elements	The substance is classified and labeled according to the Globally Harmonized System (GHS).
Hazard pictograms	 GHS08
Signal word	Danger
Hazard-determining components of labeling	Quartz (SiO2)
Hazard statements	May cause cancer. Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

Precautionary statements
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity 99 percent of the mixture consists of ingredient(s) of unknown toxicity.

Classification system
NFPA ratings (scale 0 - 4)



Health = 1
Fire = 0
Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 1
Flammability = 0
Reactivity = 0

Hazard(s) not otherwise Classified (HNOC): None known

3. Composition/information on ingredients

Mixtures:

No	Chemical name	CAS number	%
1	Kaolin	1332-58-7	>99 %

Chemical characterization **Mixtures**
Description Mixture of substances listed below with nonhazardous additions.
Dangerous Components

CAS: 14808-60-7 RTECS: VV 7330000	Quartz (SiO2)	<1.0%
	 Carc. 1A, H350; STOT RE 1, H372;  Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320	

4. First-aid measures

Description of first aid measures

Inhalation	Supply fresh air; consult doctor in case of complaints.
Ingestion	If large quantities are ingested, seek medical advice.
Skin contact	Wash with soap and water. If skin irritation occurs, consult a doctor.
Eye contact	Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

Most important symptoms/effects, both acute and delayed

Dusts may irritate the respiratory tract, skin and eyes. Symptoms may include coughing. discomfort in the chest and shortness of breath. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information	No special measures required.

5. Fire-fighting measures

Suitable extinguishing media:	CO_2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Unsuitable extinguishing media	None known.
Special hazards arising from the substance or mixture	Non-combustible, substance itself does not burn.
Protective equipment for fire-fighters	As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away. Avoid formation of dust.
Environmental precautions	Do not allow to enter sewers/ surface or ground water.
Methods and materials for containment and cleaning up	Ensure adequate ventilation. Avoid the formation of dust Dispose contaminated material as waste according to section 13. Sweep up or vacuum up spillage and collect in suitable container for disposal.
Reference to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7. Handling and storage

Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace. Practice good houskeeping to prevent the accumulation of dust in the workplace. Avoid creating and breathing airborne dust. Practice good hygiene: wash hands before eating, drinking or smoking and do not store food, eat or drink in area where chemicals are handled. Avoid prolonged or repeated exposure.
Conditions for safe storage	Store in a cool, dry place. Store in a well ventilated place. Keep receptacle tightly sealed.

Incompatible materials None known.
Specific end use(s) No further relevant information available.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)		
Components	**Type**	**Value**
Quartz (SiO2)(CAS #14808-60-7)	TWA	0.05 mg/m^3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)		
Components	**Type**	**Value**
Kaolin (CAS# 1332-58-7)	TWA	15 mg/m^3 (total dust) 5 mg/m^3 (respirable fraction)

US. OSHA Table Z-2 (29 CFR 1910.1000)

None of the ingredients in this product is listed.

US. OSHA Table Z-3 (29 CFR 1910.1000)		
Components	**Type**	**Value**
Quartz (SiO2)(CAS #14808-60-7)	TWA	250/(%SiO_2+5) mppcf (Respirable) 10/(%SiO_2+2) mg/m^3 (Respirable) 30/(%SiO_2+2) mg/m^3 (Total dust)

US. ACGIH Threshold Limit Values		
Components	**Type**	**Value**
Kaolin (CAS# 1332-58-7)	TWA (TLV)	2 mg/m^3 (no asbestos and < 1% crystalline silica) (respirable fraction)
Quartz (SiO2)(CAS#14808-60-7)	TWA (TLV)	0.025 mg/m^3(resp.) for α-quartz and cristobalite

US. NIOSH: Pocket Guide to Chemical Hazards		
Components	**Type**	**Value**
Kaolin (CAS# 1332-58-7)	TWA (REL)	10 mg/m^3 (total dust) 5 mg/m^3 (respirable fraction)
Quartz (SiO2)(CAS#14808-60-7)	TWA(REL)	0.05 mg/m^3

Additional information: The lists that were valid during the creation of this SDS were used as basis.

Protective equipment

Appropriate engineering controls Provide general ventilation in processing and storage. Provide local exhaust if necessary to reduce dust levels below acceptable limits.
Respiratory equipment NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.
Hand protection Wear protective gloves.
Eye protection Wear safety glasses.
Other protection No information available

General hygiene considerations	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing and wash before reuse. Wash hands before breaks and at the end of work.

9. Physical and chemical properties

Appearance	Powder
Color	Off-white
Odor	Odorless
Odor threshold	Not determined.
pH-Value	3.5 - 6 (When tested as a 20% solids suspension)
Boiling point/Range	Not determined.
Melting point/Range	1760 °C (3200 °F)
Flash point	Not applicable.
Flammability (solid, gaseous)	Not available.
Ignition temperature	Not determined.
Decomposition temperature	550 °C (1022 °F) (Dehydroxylation)
Auto igniting	Product is not self-igniting.
Danger of explosion	Product does not present an explosion hazard.
Explosion limits	Not available.
Vapor pressure	Not determined.
Relative density	2.63
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Insoluble.
Partition coefficient Log P o/w (Octanol/Water)	Not determined.
Viscosity	Not available.
Solvent content	
Organic solvents	0.0 %
Solids content	100.0 %
Other information	No further relevant information available.

10. Stability and reactivity

Reactivity	No further relevant information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known.
Thermal decomposition/Conditions to avoid	No decomposition if used according to specifications.
Incompatible materials	Contact with fluorine, oxygen dilfuoride, and chlorine trifluoride will cause fire. Strong oxidizing agents.
Hazardous decomposition products	No dangerous decomposition products known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	No information available.
Inhalation	No information available.
Skin contact	Mild irritant effect.
Eye contact	Mild irritant effect.
Symptoms related to the physical, chemical and toxicological characteristics	No information available.
Delayed and immediate effects and also chronic effects from short- and long-term exposure	No information available.

Numerical measures of toxicity

Components	Test	Species	Test Results
Kaolin (CAS # 1332-58-7)	Oral LD_{50}	Rat	>5000 mg/kg
	Dermal LD_{50}	Rat	>5000 mg/kg

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization

Respiratory sensitization	No information available.
Skin sensitization	No information available.

Germ cell mutagenicity No information available.

Carcinogenicity

IARC (International Agency for Research on Cancer)
"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, silicate 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"

Quartz (SiO2) (CAS# 14808-60-7) – 1

NTP (National Toxicology Program)
Quartz (SiO2) (CAS# 14808-60-7) – K

OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients are listed

Reproductive toxicity	No information available.
Specific target organ toxicity - single exposure	No information available.
Specific target organ toxicity - repeated exposure	No information available.
Aspiration hazard	No information available.

12. Ecological information

Numerical measures of toxicity
Not known to be hazardous to water.

Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Mobility in soil	No further relevant information available.
Results of PBT and vPvB assessment	Not applicable.
Other adverse effects	No further relevant information available.

13. Disposal considerations

Disposal instructions	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Contaminated packaging	Disposal must be made according to official regulations. Use water, if necessary with cleansing agents.

14. Transport information

UN number DOT, ADN, IMDG, IATA, ADR	Non-Regulated Material
UN proper shipping name DOT, ADN, IMDG, IATA, ADR	Non-Regulated Material
Transport hazard class(es) DOT, ADN, IMDG, IATA, ADR	Non-Regulated Material
Packing group DOT, ADN, IMDG, IATA, ADR	Non-Regulated Material
Environmental hazards	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
Notes	

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Sara
Section 355 (extremely hazardous substances)
None of the ingredients are listed.
Section 313 (Specific toxic chemical listings):
None of the ingredients are listed.

TSCA (Toxic Substances Control Act):
All ingredients are listed or exempt.

California Proposition 65

WARNING: Because the raw materials for our products come from the earth, our products may contain titanium dioxide and trace amounts of naturally-occurring crystalline silica and heavy metals found on the Prop 65 list including antimony, arsenic, beryllium, cadmium, cobalt, lead, nickel, vanadium, mercury, and hexavalent chromium, which are present at levels far below those covered by the Hazard Communication Standard. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/ Chemicals known to cause cancer
Quartz (SiO2) (CAS#14808-60-7)- Listed date: October 1, 1988

Carcinogenic categories
EPA (Environmental Protection Agency)
None of the ingredients are listed.
TLV (Threshold Limit Value established by ACGIH)
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable

1332-58-7	Kaolin	A4
14808-60-7	Quartz (SiO2)	A2

NIOSH-Ca (National Institute for Occupational Safety and Health)
Quartz (SiO2)(CAS#14808-60-7)

GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms

GHS08

Signal word Danger

Hazard statements
May cause cancer.
Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalative.

Precautionary statements
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
IF exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national/international regulations.

National regulations:
The product is subject to be classified according with the latest version of the regulations on hazardous substances.

State Right to Know :RTK (Listed substances)

CAS#1332-58-7	Kaolin	>99 %
CAS#14808-60-7	Quartz	<1.0%

International Inventories

Australia - AICS
All ingredients are listed or exempt.

Canada -DSL
All ingredients are listed or exempt.

China - IECSC
All ingredients are listed or exempt.

Europe- EINECS
All ingredients are listed or exempt.

Japan- ENCS
All ingredients are listed or exempt.

Korea-ECL
All ingredients are listed or exempt.

New Zealand- NZIoC
All ingredients are listed or exempt.

Philippines – PICCS
All ingredients are listed or exempt.

Switzerland - EINECS
All ingredients are existing chemicals on EINECS.

Taiwan - TCSI
All ingredients are listed or exempt.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Other information

Information Sources	OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.
Date of preparation / last revision	8/24/2018
Revision	11

Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADR	The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
DSL	Domestic substances list
DOT	US Department of Transportation
ECL	Korea Existing Chemicals List
EINECS	European INventory of Existing Commercial chemical Substances
ELINCS	European List of Notified Chemical Substances
ENCS	Existing and New Chemical Substances Inventory
HMIS	Hazardous Materials Identification System (USA)
IATA	International Air Transport Association
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Code for Dangerous Goods
NDSL	Non-domestic Substance List
NFPA	National Fire Protection Association (USA)
NLP	No-longer Polymers
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances
TCSI	Taiwan Chemical Substance Inventory