

Issue date: 2/26/2023

Reviewed on: 12/15/2025

1: Identification

Product identifier

Trade name Calcined Dry: Opamax 16, Opamax 56

Other means of identification

CAS Number 92704-41-1

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 coating, paints, rubber and plastic formulations.

Manufacturer/Importer/Supplier/Distributor information

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

Emergency phone number

Contact Person

Regulatory Administrator

Emergency phone number

For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC
+1 703-741-5971 / 1-800-424-9300 CCN 1010246

2: Hazard(s) identification

Classification of the substance or mixture in accordance with paragraph (d)(1)(i) of Sec. 1910.1200.

The product is not hazardous according to OSHA HazCom Standard 29 CFR paragraph (d)(1)(i) of Sec. 1910.1200 and GHS Rev 07 based on the supplied form and potential for dust formation.

GHS classification

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

GHS label elements

Hazard pictograms Non-Regulated Material.

Signal word Non-Regulated Material.

Hazard statements Non-Regulated Material.

Precautionary statements Non-Regulated Material.

Hazards classified under paragraph (d)(1)(ii) of Sec. 1910.1200.

No information available.

Trade name: Calcined Dry: Opamax 16, Opamax 56**Hazard(s) not otherwise Classified (HNOC)**

None known.

Ingredients(s) with Unknown Acute Toxicity in the mixture at a concentration >=1%

No information available.

3: Composition/information on ingredients**Substance**

<u>No</u>	<u>Chemical name</u>	<u>CAS number</u>	<u>%</u>
1	Calcined Kaolin	92704-41-1	>99%

Impurity Disclosure: Crystalline silica (quartz) may be present in this material. Hazard classifications associated with crystalline silica are related to inhalation of respirable dust particles that may be generated during processing, handling, or use. Precautionary measures should be taken to eliminate exposure to dusts.

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.

Eye contact Rinse opened eye for several minutes under running water.

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, if necessary

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 (and unsuitable) extinguishing media**

Suitable extinguishing media CO₂, 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.

Special protective equipment and precautions 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.

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Methods and materials for containment and cleaning up

Ensure adequate ventilation.
Avoid the formation of dust.
Avoid dry sweeping of spilled material.
Use wet cleanup methods or HEPA-filtered vacuum systems where feasible.
Implement appropriate respiratory protection where dust generation cannot be prevented.
Do not allow to enter sewers/surface or ground water.
Dispose contaminated material as waste according to section 13.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Reference to other sections

7: Handling and storage

Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Practice good housekeeping 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, including any incompatibilities

Conditions for safe storage

Store in a cool, dry place. Store in a well-ventilated place.

Incompatible materials

None known.

8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

No exposure limits have been published for calcined kaolin products. We recommend using the limits published for Kaolin (CAS# 1332-58-7).

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

None of the ingredients in this product is listed.

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)

None of the ingredients in this product is listed.

US. ACGIH Threshold Limit Values		
Components	Type	Value

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Kaolin (CAS# 1332-58-7)	TWA (TLV)	2 mg/m ³ (no asbestos and < 1% crystalline silica) (respirable fraction)
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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)

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. Use methods that reduce or prevent dust generation. When appropriate, provide local exhaust if necessary to reduce dust levels away from the breathing area and below acceptable limits.

Respiratory equipment

NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits. The type of respirator recommended depends on determined airborne concentrations.

Hand protection

Wear protective gloves.

Eye protection

Wear safety glasses.

Other protection

Wear appropriate clothing to prevent any possibility of skin contact.

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**Physical state**

Powder.

Color

White.

Odor (includes odor threshold)

Odorless (Not determined).

Melting point/freezing point

1760 °C (3200 °F)

Boiling point (or initial boiling point or boiling range)

Not determined.

Flammability

Product is not flammable.

Danger of explosion

Product does not present an explosion hazard.

Lower explosion limit/flammability limit

Not available.

Upper explosion limit/flammability limit

Not available.

Flash point

Not applicable.

Ignition temperature

Not determined.

Auto-ignition temperature

Not determined.

Decomposition temperature

Not determined.

pH

Not applicable.

Kinematic viscosity

Not applicable.

Solubility (Water)

Insoluble.

Partition coefficient n-octanol/water (log value)

Not determined.

Vapor pressure (includes evaporation rate)

Not applicable.

Density and/or relative density @ 20 °C (68 °F)

2.6 -2.75 g/cm³ (21.697-22.949 lbs/gal)

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Relative vapor density	Not applicable.
Particle characteristics	No information available.
Percent solids by Wt	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, including those associated with foreseeable emergencies	No dangerous reactions known.
Conditions to avoid	No decomposition if used according to specifications.
Incompatible materials	None known.
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

No information available for calcined kaolin products. For completeness, including information published for Kaolin (CAS# 1332-58-7).

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

Interactive effects

No information available.

Acute toxicity	No information available.
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	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity	No information available.

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

Additional toxicological information

The product is not subject to classification when used and handled in a manner that does not result in the generation of dust, the product does not pose a hazard.

12: Ecological information

Ecotoxicity	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.
Other adverse effects	No further relevant information available.

13: Disposal considerations

Disposal instructions	Dispose of contents/container in accordance with local, regional, national, and international regulations.
Additional Information:	Use water in addition to cleansing agents. Continue to observe all precautions.

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.
Transport in bulk according to IMO instruments	Not applicable.
Special precautions for user	Not applicable.

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 (TRI reporting)

Trade name: Calcined Dry: Opamax 16, Opamax 56

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.

Carcinogenic categories

EPA (Environmental Protection Agency)

None of the ingredients are listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

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)

None of the ingredients are listed.

16: Other information

Information Sources

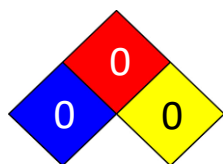
OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 07.

Date of preparation / last revision 12/15/2025

Revision

3

National Fire Protection Association (NFPA) Classification system - NFPA ratings (scale 0 - 4)



Health = 0

Fire = 0

Reactivity = 0

Hazardous Materials Identification System (HMIS) - ratings (scale 0 - 4)



Health = 0

Flammability = 0

Reactivity = 0

The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Abbreviations and acronyms

ACGIH : American Conference of Governmental Industrial Hygienists

ADR : The European Agreement concerning the International Carriage of Dangerous Goods by Road

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ADN	: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
AIIC	: Australian Inventory of Industrial Chemicals
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

Disclaimer

The information contained herein is believed to be true and accurate and is intended to meet the globally harmonized version of the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200, adopted on May 20, 2024. However, all statements, recommendations or suggestions are made without any guarantee, representation or warranty, express or implied, by Thiele Kaolin Company. Therefore, Thiele Kaolin Company neither makes nor implies any warranty that the information set out in this document is accurate or complete, and we accordingly exclude all liability in connection with the use of this information or the products referred to herein. All such risks are assumed by the purchaser/user. Thiele Kaolin Company cannot anticipate all conditions under which this information and our product, or the products of other manufacturers in combination with our product, may be used. It is the purchaser's/user's responsibility to ensure safe conditions for handling, storage and disposal of the product.