# SAFETY DATA SHEET



# 1. Identification

Product identifier HECTABRITE® DP

Other means of identification

CAS number 12173-47-6
Synonyms Hectorite
Recommended use Not available.
Recommended restrictions None known.

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** Emergency 1.866.519.4762/1 760 476 3962

Americas 1.866.519.4752 (US, Canada, Mexico) 1 760 476 3962

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Carcinogenicity Category 1A

Specific target organ toxicity, repeated Category 1

exposure

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May cause cancer. Causes damage to organs through prolonged or repeated exposure.

**Precautionary statement** 

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** If exposed or concerned: Get medical advice/attention.

**Storage** Store in accordance with local/regional/national regulations.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 100% of the substance consists of component(s) of unknown acute oral toxicity. 100% of the

substance consists of component(s) of unknown acute dermal toxicity.

3. Composition/information on ingredients

Substances

Material name: HECTABRITE® DP

Chemical name	Common name and synonyms	CAS number	%
Hectorite	Hectorite	12173-47-6	100
Constituents			
Chemical name	Common name and synonyms	CAS number	%
QUARTZ (SIO2)		14808-60-7	<= 6
CRISTOBALITE		14464-46-1	<= 2

**Composition comments** 

Occupational Exposure Limits for constituents are listed in Section 8.

### 4. First-aid measures

Move to fresh air. Call a physician if symptoms develop or persist. Inhalation

Get medical attention if irritation develops and persists. Skin contact

No specific first aid measures noted. Do not rub eyes. Rinse with water. Get medical attention if Eye contact

irritation develops and persists.

Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit Ingestion

doesn't enter the lungs.

Most important

symptoms/effects, acute and

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

delayed Indication of immediate

medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice General information (show the label where possible). Ensure that medical personnel are aware of the material(s)

involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Use any media suitable for the surrounding fires. Not applicable, non-combustible.

None known. The product itself does not burn.

Special protective equipment

and precautions for firefighters

Fire fighting equipment/instructions Use water spray to cool unopened containers.

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

General fire hazards No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS, No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

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

Methods and materials for containment and cleaning up Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. 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. 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. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container.

**Environmental precautions** 

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities No special restrictions on storage with other products. Store in a dry area. Keep the container dry. Store in tightly closed container. Store in a well-ventilated place. 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

	Туре	Value	Form
CRISTOBALITE (CAS 14464-46-1)	PEL	0.05 mg/m3	Respirable dust.
QUARTZ (SIO2) (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
US. OSHA Table Z-3 (29 C	CFR 1910.1000)		
Constituents	Туре	Value	Form
NUISANCE DUST	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
CRISTOBALITE (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable.
		1.2 mppcf	Respirable.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
US. ACGIH Threshold Lin	nit Values	2.4 mppcf	Respirable.
	nit Values Type	2.4 mppcf  Value	Respirable.
CRISTOBALITE (CAS			·
CRISTOBALITE (CAS 14464-46-1) QUARTZ (SIO2) (CAS	Туре	Value	Form
US. ACGIH Threshold Lin Constituents  CRISTOBALITE (CAS 14464-46-1)  QUARTZ (SIO2) (CAS 14808-60-7)  US. NIOSH: Pocket Guide	Type TWA TWA	<b>Value</b> 0.025 mg/m3	Form Respirable fraction.
Constituents  CRISTOBALITE (CAS 14464-46-1)  QUARTZ (SIO2) (CAS 14808-60-7)  US. NIOSH: Pocket Guide	Type TWA TWA	<b>Value</b> 0.025 mg/m3	Form Respirable fraction.
Constituents  CRISTOBALITE (CAS 14464-46-1)  QUARTZ (SIO2) (CAS 14808-60-7)  US. NIOSH: Pocket Guide Constituents  CRISTOBALITE (CAS	Type  TWA  TWA  e to Chemical Hazards	Value 0.025 mg/m3 0.025 mg/m3	Form  Respirable fraction.  Respirable fraction.
Constituents  CRISTOBALITE (CAS 14464-46-1)  QUARTZ (SIO2) (CAS 14808-60-7)  US. NIOSH: Pocket Guide Constituents  CRISTOBALITE (CAS 14464-46-1)  QUARTZ (SIO2) (CAS	Type  TWA  TWA  e to Chemical Hazards  Type	Value  0.025 mg/m3  0.025 mg/m3  Value	Form  Respirable fraction.  Respirable fraction.  Form
Constituents CRISTOBALITE (CAS 14464-46-1) QUARTZ (SIO2) (CAS 14808-60-7)	Type  TWA  TWA  e to Chemical Hazards  Type  TWA	Value  0.025 mg/m3  0.025 mg/m3  Value  0.05 mg/m3  0.05 mg/m3	Form  Respirable fraction.  Respirable fraction.  Form  Respirable dust.

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

Applicable for industrial settings only. Wear dust-resistant safety goggles where there is danger of Eye/face protection

eye contact.

Skin protection

**Hand protection** Applicable for industrial settings only. Wear appropriate chemical resistant gloves. No protection is

ordinarily required under normal conditions of use.

Material name: HECTABRITE® DP SDS US Other Applicable for industrial settings only. Use of an impervious apron is recommended. Normal work

clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection Applicable for industrial settings only. Use a NIOSH/MSHA approved respirator if there is a risk of

exposure to dust/fume at levels exceeding the exposure limits.

Thermal hazards Not applicable.

General hygiene considerations

Observe any medical surveillance requirements. 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

Lump, granular or fine powder. **Appearance** 

Solid. Physical state

**Form** Powder. Various.

Color Various. Odor None.

Not applicable. Odor threshold

8.5 - 11 Hq

> 842 °F (> 450 °C) / Not applicable. Melting point/freezing point

Initial boiling point and boiling

range

Not applicable.

Not applicable. Flash point **Evaporation rate** Not available.

This product is not flammable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

Not applicable.

(%)

Flammability limit - upper

Not applicable.

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available. Vapor pressure Not applicable. Vapor density Not applicable. Relative density 2.6 g/cm3

Solubility(ies)

Solubility (water) < 0.9 mg/l

Partition coefficient Not applicable. Not applicable. (n-octanol/water) Not applicable. **Auto-ignition temperature Decomposition temperature** > 932 °F (> 500 °C) Viscosity Not applicable. Viscosity temperature Not applicable.

Other information

0.9 - 1.4 g/cm3 **Bulk density Explosive limit** Not applicable.

**Explosive properties** Not explosive. Not explosive

**Explosivity** Not applicable. Flame extension Not applicable. **Flammability** Not applicable. Flammability (flash back) Not applicable. Flammability (Heat of Not applicable.

combustion)

Flammability (Train fire) Not applicable.

Material name: HECTABRITE® DP

Flammability class
Not applicable.

Flash point class
Not flammable
UVCB Substance
Molecular weight
Not applicable.

Oxidizing properties
Not oxidizing. None.

Percent volatile 0 % pH in aqueous solution 8.5 - 11

**Specific gravity** Not applicable.

VOC CARB 0 %

# 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 Moisture. Avoid temperatures exceeding the decomposition temperature. Contact with

incompatible materials.

Incompatible materials None known.

Hazardous decomposition

products

None.

# 11. Toxicological information

Information on likely routes of exposure

InhalationDust may irritate respiratory system.Skin contactDust or powder may irritate the skin.Eye contactDust in the eyes will cause irritation.

**Ingestion** Knowledge about health hazard is incomplete.

Symptoms related to the physical, chemical and toxicological characteristics

Dusts may irritate the respiratory tract, skin and eyes.

Information on toxicological effects

Acute toxicity Not classified. Not known.

Product Species Test Results

Hectorite (CAS 12173-47-6)

Acute Inhalation Dust

LC50 Rat > 5.27 mg/l, 4 hr OECD 436

**Oral** Dust

LD50 Rat > 2000 mg/kg OECD 425

Constituents Species Test Results

CRISTOBALITE (CAS 14464-46-1)

Acute Oral

LD50 Rat > 22500 mg/kg

**Skin corrosion/irritation**Due to partial or complete lack of data the classification is not possible.

Serious eye damage/eye

irritation

Due to partial or complete lack of data the classification is not possible. Mild irritant to eyes

(according to the modified Kay & Calandra criteria)

Respiratory or skin sensitization

**Respiratory sensitization**Due to partial or complete lack of data the classification is not possible. **Skin sensitization**Due to partial or complete lack of data the classification is not possible.

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Germ cell mutagenicity

Due to partial or complete lack of data the classification is not possible.

Carcinogenicity

May cause cancer. No carcinogenicity data available for this product. Sepiolite was evaluated by IARC as class 3 ("Cannot be classified as to carcinogenicity to humans"). Based on read-across with sepiolite, bentonite was assessed as non-carcinogenic. Therefore classification of bentonite for carcinogenicity is not warranted.

IARC Monographs. Overall Evaluation of Carcinogenicity

CRISTOBALITE (CAS 14464-46-1) 1 Carcinogenic to humans. QUARTZ (SIO2) (CAS 14808-60-7) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

CRISTOBALITE (CAS 14464-46-1) Cancer QUARTZ (SIO2) (CAS 14808-60-7) Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

CRISTOBALITE (CAS 14464-46-1) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

QUARTZ (SIO2) (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity Specific target organ toxicity single exposure

Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity repeated exposure

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible. **Chronic effects** Causes damage to organs through prolonged or repeated exposure.

# 12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results
Hectorite (CAS 12173	3-47-6)		
Aquatic			
Algae	EC50	Freshwater algae	> 100 mg/l, 72 hours
Crustacea	EC50	Coon stripe shrimp (Pandalus danae)	24.8 mg/l, 96 hours
		Daphnia	> 100 mg/l, 48 hours
		Dungeness or edible crab (Cancer magister)	81.6 mg/l, 96 hours
Fish	LC50	Freshwater fish	16000 mg/l, 96 hours
		Marine water fish	2800 - 3200 mg/l, 24 hours

Persistence and degradability Not relevant for inorganic substances

Bioaccumulative potential Will not bio-accumulate.

Bentonite is almost insoluble and thus presents a low mobility in most soils. Mobility in soil

Mobility in general The product has poor water-solubility.

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 of

contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal 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

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).

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

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.

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### 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 a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

#### **Toxic Substances Control Act (TSCA)**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

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

Not listed.

## SARA 304 Emergency release notification

Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

CRISTOBALITE (CAS 14464-46-1)

QUARTZ (SIO2) (CAS 14808-60-7)

CRISTOBALITE (CAS 14464-46-1)

QUARTZ (SIO2) (CAS 14808-60-7)

Lung effects

Lung effects

CRISTOBALITE (CAS 14464-46-1) immune system effects QUARTZ (SIO2) (CAS 14808-60-7) immune system effects

CRISTOBALITE (CAS 14464-46-1) kidney effects QUARTZ (SIO2) (CAS 14808-60-7) kidney effects

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

### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No (Exempt)

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**

# **California Proposition 65**



**WARNING:** This product can expose you to QUARTZ (SIO2), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

QUARTZ (SIO2) (CAS 14808-60-7) Listed: October 1, 1988

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

CRISTOBALITE (CAS 14464-46-1) QUARTZ (SIO2) (CAS 14808-60-7)

Material name: HECTABRITE® DP

#### 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	Yes

Substances (EINECS)

Europe European List of Notified Chemical Substances (ELINCS)

Japan Inventory of Existing and New Chemical Substances (ENCS)

JapanInventory of Existing and New Chemical Substances (ENCS)NoKoreaExisting Chemicals List (ECL)YesNew ZealandNew Zealand InventoryYes

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

No

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

Issue date 13-May-2014
Revision date 31-January-2020

Version # 22

Further information This safety datasheet only contains information relating to safety and does not replace any product

information or product specification.

HMIS® ratings Health: 3\*

Flammability: 0 Physical hazard: 0

NFPA ratings Health: 2

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** American Colloid Company 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. 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 manufacturer expressly does not make any representations, warranties, or quarantees 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 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 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.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.

Material name: HECTABRITE® DP SDS US

No

Yes

<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).