

SAFETY DATA SHEET (SDS)

Version 2.0

Revision Date : January 10, 2023

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Bentonite Clay
INCI name	:	Bentonite
CAS #	:	1302-78-9
Country of Origin	:	USA
Product use	:	Domestic and Industrial
Supplier	:	New Directions Aromatics Inc.
Address	:	6781 Columbus Road, Mississauga, Ontario, CANADA L5T 2G9
Fax	:	905-362-1926
Telephone number	:	905-362-1915
Emergency phone number	:	(613)-996-6666 CANUTEC 24 HOUR EMERGENCY

2. HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification

Carcinogenicity - Category 1A

Specific target organ toxicity, repeated exposure - Category 1

GHS Label elements, including precautionary statements

Signal: Danger

Hazard statement(s)

H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fumes/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P281	Use personal protective equipment as required.
P308+P313	If exposed: Call a POISON CENTER or doctor/physician.
P314	Get medical advice/attention if you feel unwell.
P405	Store locked up.
P501	Dispose of contents/container according to local regulations.

3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
QUARTZ (SiO ₂)	14808-60-7	-	≤ 1 %

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

4. FIRST AID MEASURES

Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

Skin contact

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

Inhalation

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

Ingestion

Rinse mouth. Get medical attention if symptoms occur.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Water spray, water jet.

Special protective equipment and precautions for fire-fighters

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

Special hazards arising from the substance or its combustible products

During fire, gases hazardous to health may be formed.

Resulting gases

Carbon oxides.

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. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up

This product is miscible in water. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

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. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure controls

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.

Eyes

Use tightly sealed goggles.

Skin

If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

Respiratory

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used.

Exposure limit values

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

QUARTZ (SIO2) (CAS14808-60-7): PEL - 0.05 mg/m3 - Respirable dust.

INERT OR NUISANCE DUSTS: TWA - 5 mg/m3 - Respirable fraction.

TWA - 15 mg/m3 - Total dust.

TWA - 50 mppcf - Total dust.

TWA - 15 mppcf - Respirable fraction

QUARTZ (SIO2) (CAS 14808-60-7): TWA - 0.1 mg/m3 - Respirable.

TWA - 2.4 mppcf - Respirable.

Biological limit values

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Fine off-white powder.
Odor	:	None.
Solubility (ies)	:	Insoluble in water or alcohol.

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.

Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not known.

Carcinogenicity

May cause cancer.

IARC

QUARTZ (SiO₂) (CAS 14808-60-7) - Carcinogenic to humans.

NTP

QUARTZ (SiO₂) (CAS 14808-60-7) - Known to be Human Carcinogen.

OSHA

QUARTZ (SiO₂) (CAS 14808-60-7) - Cancer

Specific target organ toxicity

Single exposure: Not classified.

Repeated exposure: Causes damage to organs through prolonged or repeated exposure.

Reproductive toxicity

This product is not expected to cause reproductive or developmental Reproductive toxicity effects.

Respiratory or skin sensitization

Not a respiratory sensitizer.

This product is not expected to cause skin sensitization.

Inhalation

No adverse effects due to inhalation are expected.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion

Expected to be a low ingestion hazard.

Skin corrosion

Prolonged skin contact may cause temporary irritation.

Serious eye damage

Direct contact with eyes may cause temporary irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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 available.

Bio - accumulative potential

Not data available.

Mobility in soil

Not data available.

Other adverse effects

Not available.

13. DISPOSAL CONSIDERATION

Disposal considerations

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/

14. TRANSPORT INFORMATION

US DOT Shipping Description (Land)

Not regulated

IMO-IMDG Shipping Description (Sea)

Not regulated

IATA Shipping Description (Air)

Not regulated

15. REGULATORY INFORMATION

California Proposition 65

This product can expose you to QUARTZ (SiO₂), which is known to the State of California to cause cancer.

GHS Hazard Statements

Refer to Section 2.

GHS Precautionary Statements

Refer to Section 2.

16. OTHER INFORMATION

Revision date : January 10, 2023

Disclaimer & Caution

Please refer to all relevant technical information specific to the product, prior to use. The information contained in this document is obtained from current and reliable sources. New Directions Aromatics Inc. provides the information contained herein, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As the ordinary or otherwise use(s) of this product is outside the control of New Directions Aromatics Inc., no representation or warranty, expressed or implied, is made as to the effect(s) of such use(s), (including damage or injury), or the results obtained. The liability of New Directions Aromatics Inc. is limited to the value of the goods and does not include any consequential loss. New Directions Aromatics Inc. shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon. New Directions Aromatics Inc. shall not be responsible for any damages resulting from use of or reliance upon this information. In the event of any dispute, the Customer hereby agree that Jurisdiction is limited to the province of Ontario, Canada.