



SAFETY DATA SHEET

This Safety Data Sheet complies with the Canadian Hazardous Product Regulations, the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR 1910 (OSHA HCS), and the European Union Directives.

1. Product and Supplier Identification

- 1.1 Product:** Pyroclay
- 1.2 Other Means of Identification:** Product Code: 3105.20.00.00
- 1.3 Product Use:** Horticulture, for use as an auxiliary soil and plant substance
- 1.4 Restrictions on Use:** See Manufacturer's Guide for use
- 1.5 Producer:** NUTRILIFE PLANT PRODUCTS,
2286 McCallum Rd, Suite 102,
Abbotsford, BC V2S 3P4
Phone: (604) 606-6069
Fax: (604) 638-5116
- Supplier:** As above
- 1.6 Emergencies:** +1 (604) 606-6069

2. Hazards Identification

2.1 Classification of product or mixture

Note to reader: This product in an untested mixture and GHS classification is based on the classification of the ingredients and their concentrations. Proprietary ingredients, if any, do NOT exhibit any health effects not listed in this SDS.

GHS Classification: Skin Irritation, Category 2, H315
Eye Damage/Irritation, Category 2B, H320
Carcinogenicity, Category 1A, H350
Specific Target Organ Toxicity, Repeat Exposure, Category 1,
Lungs, H372

2.2 GHS Label Elements, including precautionary statements

Pictogram:



Signal Word:

Danger

GHS Hazard Statements: H315: Causes skin irritation.
H320: Causes eye irritation.
H350: May cause cancer.
H372: Causes damage to lungs through prolonged or repeated exposure.

GHS Precautionary Statements:

Prevention: P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P260: Do not breathe dust.
P264: Wash exposed skin thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P314: Get medical advice/attention if you feel unwell.
P321: Specific treatment (see Section 4 of this SDS).
P302+P352: IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.

Storage: P405: Store locked up.

Disposal: P501: Dispose of contents/container to...

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: None.

2.4 Additional Information

Primary Routes of Entry:

Skin Contact:	Yes
Skin Absorption:	No
Eye Contact:	Yes
Ingestion:	No
Inhalation:	Yes

Emergency Overview: Caution. May irritate the skin and eyes, primarily from particulate entering the eye. Wet clay is very slippery.

Effects of Short-Term (Acute) Exposure:

Inhalation: This product is in powder form. If dusted, inhalation may cause irritation of the upper respiratory tract.

Skin Contact: Irritation of the skin may occur causing redness and/or rash.

Eye Contact: If in contact with eyes, irritation may occur causing transient tearing.

Ingestion: Low toxicity, but ingestion of gross amounts may cause irritation of the gastro-intestinal tract.

Effects of Long-Term (Chronic) Exposure:

The chronic classification of this product relates primarily to inhalation of dusts cause when used improperly. This clay is a dessicant and as such may dry the skin after prolonged contact.

Medical Conditions Aggravated By Exposure: Persons who are predisposed to skin problems may be more susceptible to skin irritation if this product comes in contact with the skin.

3. Composition

3.1 Mixture composition

Component	% (w/w)	GHS Classification
Montmorillonite CAS No 1318-93-0 EC No 215-288-5	>90	No GHS Classification
Quartz CAS No 14808-60-7 EC No 238-878-4	<10	Carcinogenicity, Category 1A, H350 Specific Target Organ Toxicity, Repeat Exposure, Category 1, Lungs, H372
Potassium Aluminum Silicate (Mica) CAS No 12001-26-2 EC No 601-648-2	<10	Skin Irritation, Category 2, H315 Eye Damage/Irritation, Category 2B, H320 Carcinogenicity, Category 1A, H350 Specific Target Organ Toxicity, Repeat Exposure, Category 1, Lungs, H372
Undisclosed ingredients or those considered non-hazardous	Trace	Not applicable

4. First Aid Measures

4.1 Description of First Aid Measures

Notes to Physician: Treat symptomatically.

In case of eye contact: Immediately flush eyes with plenty of water for 15 minutes, lifting eyelids occasionally to ensure proper lavage of the eyes. Get immediate medical attention.

In case of skin contact: Wash affected area immediately with mild soap and water. Remove contaminated clothing and wash before reuse.

If inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention. If breathing has stopped, a trained person should perform artificial respiration.

If ingestion: Low toxicity. No adverse health effect expected. Rinse mouth. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention if significant quantities have been ingested. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of vomitus into the lungs.

4.2 Most important symptoms and effects, both acute and delayed

Effects of Short-Term (Acute) Exposure:

Inhalation: This product is in powder form. If dusted, inhalation may cause irritation of the upper respiratory tract.

Skin Contact: Irritation of the skin may occur causing redness and/or rash.

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Ingestion: Low toxicity, but ingestion of gross amounts may cause irritation of the gastro-intestinal tract.

Effects of Long-Term (Chronic) Exposure:

The chronic classification of this product relates primarily to inhalation of dusts cause when used improperly. This clay is a dessicant and as such may dry the skin after prolonged contact.

4.3 Indication of any immediate medical attention and special treatment needed

None indicated

5. Fire Fighting Measures

5.1 Extinguishing Media

Suitable extinguishing media: Does not support combustion. Use any method suitable for surrounding fire.

5.2 Special hazards arising from mixture: None expected.

Advice for firefighters: Evacuate area and fight fire from a safe distance or a protected location. Stop leak if safe to do so. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products. Do not enter confined fire space without proper personal protection. Use approved positive pressure self-contained breathing apparatus. If possible, isolate materials not yet involved in the fire, and move containers from fire area if this can be done without risk, protect personnel.

5.3 Further Information:

Hazardous Decomposition Products: No hazardous decomposition products.

Sensitivity to Impact: No

Sensitivity to Static Discharge: No

HAZARDOUS MATERIALS INFORMATION SYSTEM (HMIS) HAZARD INDEX:

HEALTH: 0

CHRONIC: * Inhalation of dust

FLAMMABILITY: 0

PHYSICAL: 0

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

All spill responders involved in a cleanup of this product must follow good industrial hygiene practices. Use personal protective equipment. Avoid breathing dust. If used indoors, ensure adequate ventilation. Shovel into approved containers, properly labeled for disposal. Remainder may be vacuumed or other means where the creation of dust is minimized. If dust levels exceed the occupational exposure standard, ensure all recommended personal protection equipment is used.

Respiratory Protection: If application of this product causes dusting to occur, wear a NIOSH approved N95 mask or better.

Skin protection: Wear clothing to protect for contact with skin. Wear gloves when handling.

Eye and Face Protection: Wear eye protection with side shields if there is a chance of product contacting the eyes.

Footwear: No specific recommendation.

Other: None

6.2 Environmental precautions

Prevent from spilling into natural waterways, sewers or drains.

6.3 Methods and materials for containment and cleanup

Clean up spills immediately to protect the environment from entry into sewers or water courses. Scoop or shovel up material and place in an appropriate, properly labeled container for disposal. A vacuum may be used to clean up remaining residue, being careful not to create dust.

Remedial Measures: Do not use unprotected hands to collect spilled material. Ensure proper protective equipment is used to prevent contact with skin and eyes.

Large Spills: Dike with earth or sand to contain spill. Scoop or shovel material into appropriate approved containers, label for disposal. Small remaining material may be swept up or vacuumed up being careful not to create dust. Do not flush with water to avoid creating a slippery area.

Small Spills: Do not create dust when sweeping or vacuuming up a small spill. Place salvaged material in appropriate labelled containers for disposal. Do not flush area with water to avoid creating a slippery area.

6.4 Other information: None

6.4.1 Reference to other sections

For disposal, see Section 13.

7. Handling and Storage

7.1 Precautions for safe handling

Handling Procedures: This product is very safe to handle provided it is used as recommended and dusting is not created. Keep container tightly closed when not in use. Handle opened containers carefully. Avoid methods of use that will cause dusting of product. Launder clothing before reuse. Wash face and hands thoroughly after handling and before eating, drinking, or using tobacco products. Empty containers may contain hazardous product residues. Avoid contact with eyes, skin and clothing.

7.2 Conditions for safe storage, including incompatibilities

Storage: Store in a dry, covered area.

7.3 Specific end use(s)

No other uses except those mentioned in Section 1.2

8. Exposure Controls, Personal Protection

8.1 Control parameters

Components with workplace control parameters

Quartz, CAS No 14808-60-7	0.05 mg/m ³ TWA, OSHA*, Table Z-1 Limits for Air Contaminants
	0.025 mg/m ³ TLV-TWA, ACGIH*
	0.05 mg/m ³ TWA NIOSH* Recommended Exposure Limit
Mica, CAS No 12001-26-2	3 mg/m ³ TLV-TWA NIOSH Recommended Exposure Limit

* ACGIH: American Conference of Governmental Industrial Hygienists. OSHA: Occupational Safety and Health Administration, NIOSH: National Institute for Occupational Safety and Health. Exposure limits may vary from time to time and from one jurisdiction to another. Check with local regulatory agency for the exposure limits in your area.

8.2 Exposure Controls

Engineering Controls: Under manufacturer's recommended use, no particular engineering controls required. If use causes workplace control parameters to be reached, use adequate ventilation to reduce concentrations in air.

Respiratory Protection: If application of this product causes dusting to occur, wear a NIOSH approved N95 mask or better.

Skin protection: Wear clothing to protect for contact with skin. Wear gloves when handling.

Eye and Face Protection: Wear eye protection with side shields if there is a chance of product contacting the eyes.

Footwear: No specific recommendation.

Other: None

Control of environmental exposure: Prevent from spilling into natural waterways, sewers or drains.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Solid powder or granules
Odour:	Odourless
Odour Threshold:	No data available
pH:	8.1 – 10.5
Melting Point/Freezing Point:	1200°C
Initial Boiling Point:	No data available
Flash Point:	None
Evaporation Rate:	No data available
Flammability:	Not flammable
Upper Explosion Limit:	No data available
Lower Explosion Limit:	No data available
Vapour Pressure:	No data available
Vapour Density:	No data available
Relative Density:	2.5 gm/c ³
Solubility:	Not soluble
Partition Coefficient:	No data available
Autoignition Temperature:	No data available
Decomposition Temperature:	Not available
Viscosity:	Not available
Explosive Properties:	None
Oxidizing Properties:	None
Percent Volatiles:	None

9.2 Other safety information: None

10. Stability and Reactivity

- 10.1 **Reactivity**
Stable
- 10.2 **Chemical Stability**
Stable, inert.
- 10.3 **Possibility of hazardous reactions**
No data available
- 10.4 **Conditions to avoid**
None known
- 10.5 **Incompatible materials**
None known
- 10.6 **Hazardous decomposition products**
None known

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

No GHS classification

Skin corrosion/irritation

Skin Irritation, Category 2, H315: Causes skin irritation.

Serious eye damage/eye irritation

Eye Damage/Irritation, Category 2B, H320: Causes eye irritation.

Respiratory or skin sensitization

No GHS classification

Germ Cell Mutagenicity

No GHS classification

Carcinogenicity

Yes. Cancer concern is by repeated respiration of particulate and dusts.
Carcinogenicity, Category 1A, H350: May cause cancer.

Reproductive toxicity

No GHS classification

Specific Target Organ Toxicity – Single exposure

No GHS classification

Specific Target Organ Toxicity – Repeated exposure

Yes. Toxicity concern is by repeated respiration of particulate and dusts into the lungs.
Specific Target Organ Toxicity, Repeat Exposure, Category 1, Lungs, H372: Causes damage to

organs through prolonged or repeated exposure.

Aspiration Hazard

No GHS classification

Aquatic Toxicity

No GHS classification

Additional information

Relevant toxicity data:

Component	LD ₅₀	LC ₅₀
Montmorillonite CAS No 1318-93-0	No data available	No data available
Quartz CAS No 14808-60-7	No data available	No data available
Potassium Aluminum Silicate (Mica) CAS No 12001-26-2	No data available	No data available

12. Ecological Information

- 12.1 Toxicity**
No data available
- 12.2 Persistence and degradability**
No data available
- 12.3 Bioaccumulative potential**
No data available
- 12.4 Mobility in soil**
No data available
- 12.5 Results of PBT and vPvB assessment**
Not conducted
- 12.6 Other adverse effects**
No data available

13. Disposal Considerations

13.1 Waste treatment methods

Product:

Dispose of product according to all applicable local, state (provincial), and federal regulations. Offer to a licensed disposal company, properly contained and labeled.

Contaminated Packaging:

As above. Ensure all packagings are leakproof and properly labeled.

14. Transport Information

Transport of Dangerous Goods (TDG and CLR): Not regulated for transport

United States Department of Transport (49CFR): Not regulated for transport

International Air Transport Association (IATA): Not regulated for transport

International Maritime Organization (IMO): Not regulated for transport

15. Regulatory Information

CANADIAN FEDERAL REGULATIONS:

CEPA, DOMESTIC SUBSTANCES LIST: Listed

AMERICAN FEDERAL REGULATIONS:

TSCA: (Toxic Substance Control Act): Listed

SARA 302 Extremely hazardous substance: No chemicals in this product are listed

SARA 311/312 Hazardous chemical: Chronic health hazard

SARA 313 (TRI reporting): No chemicals in this product are subject to the reporting requirements.

Other State Regulations:

Massachusetts Right to Know Components:

Quartz, CAS No 14808-60-7
Potassium Aluminum Silicate, CAS No 12001-26-2

Pennsylvania Right to Know Components:

Quartz, CAS No 14808-60-7
Potassium Aluminum Silicate, CAS No 12001-26-2

New Jersey Right to Know Components:

Quartz, CAS No 14808-60-7
Potassium Aluminum Silicate, CAS No 12001-26-2

California Prop 65 Components: This product does not contain any chemicals known to
the State
of California to cause cancer, birth defects, or any other reproductive harm.

OTHER:

None

16. Other Information

Original Preparation Date: August 10, 2018

Prepared by: Technical Department

Disclaimer: This Safety Data Sheet (SDS) was prepared using information provided by CCINFO, ingredient supplier SDS and other relevant sources. This product has been classified using weight of evidence, expert judgment and previous testing as per Part 1.3 of the Seventh Edition of The Globally Harmonized System of Classification and Labeling of Chemicals (GHS). The information in this SDS is offered for your consideration and guidance when exposed to this product. Nutrilife Plant Products expressly disclaims all expressed or implied warranties and assumes no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

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Revisions: None