



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:** Pro-Guard
- 1.2 **Other Means of Identification:** None
- 1.3 **Product Use:** Specialty Fertilizer
- 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: None (see note below)

Note: Although individual ingredients have specific GHS Classifications, cut-off values for those ingredients are below classification thresholds. For Potassium Silicate, the product is liquid and is not in respirable form.

2.2 GHS Label Elements, including precautionary statements

Pictogram: None

Signal Word: None

GHS Hazard Statements: None

GHS Precautionary Statements:

Prevention: None
Response: None.
Storage: None
Disposal: None

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: No

Emergency Overview: Caution. May irritate eye and skin.

Effects of Short-Term (Acute) Exposure:

Inhalation: This product is in liquid form. If misted, 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 lachrymation of the eyes.

Ingestion: Ingestion may cause irritation of the gastro-intestinal tract. Nausea, vomiting, diarrhea and disorientation may occur if copious amounts are ingested.

Effects of Long-Term (Chronic) Exposure:

No long term health effects are known or expected.

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
Potassium Silicate CAS No 1312-76-1 EC No 215-199-1	<1.0	Skin Irritation, Category 2, H315 Serious Eye Damage, Category 1, H318 Specific Target Organ Toxicity, Single Exposure, Category 3, H335 (Respiratory System)
Potassium Chloride CAS No 7447-40-7 EC No 231-211-8	<1.0	No GHS Classification
Water CAS No 7732-18-5 EC No 231-791-2	>97	No GHS Classification

Undisclosed ingredients or those considered non-hazardous	None	Not applicable
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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: Rinse mouth. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. 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 liquid form. If misted, 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 lachrymation of the eyes.

Ingestion: Ingestion may cause irritation of the gastro-intestinal tract. Nausea, vomiting, diarrhea and disorientation may occur if copious amounts are ingested.

Effects of Long-Term (Chronic) Exposure:

No long term health effects are known or expected.

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: Use water spray, alcohol-resistant foam, dry chemical or CO₂.

5.2 Special hazards arising from mixture: No special hazards anticipated.

General 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: 1

CHRONIC: None indicated

FLAMMABILITY: 0

PHYSICAL: 0

<h2>6. Accidental Release Measures</h2>

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 vapours, mist or gas. If used indoors, ensure adequate ventilation. Extinguish all sources of ignition. Absorb spilled material on inert absorbent and shovel into approved containers, properly labeled for disposal.

Respiratory Protection: If application of this specialty fertilizer causes misting to occur, wear a NIOSH approved N95 mask.

Skin protection: Wear clothing to protect for contact with skin. Wear gloves when handling and when removing gloves use care to prevent contact with outer surface of the glove.

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

This is a specialty fertilizer designed to promote growth of plants and vegetation. 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. Absorb onto inert material and scoop or shovel up material and place in an appropriate, properly labeled container for disposal.

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, sand or inert sorbent material to contain spill. Remove liquid with compatible pumps or vacuum equipment. Place in suitable container for disposal. Flush area with water.

Small Spills: Flush area with water and protect from discharge into drains and waterways.

6.4 Other information: None

6.5 Reference to other sections

For disposal, see Section 13.

7. Handling and Storage

7.1 Precautions for safe handling

Handling Procedures: Keep container tightly closed when not in use. Handle opened containers carefully. Avoid methods of use that will cause misting 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: *Keep out of reach of children:* Store in original containers provided when purchased. Store in a cool, dry, well-ventilated area away from incompatible materials.

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

No substances have published workplace exposure limits.

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 specialty fertilizer causes misting to occur, wear a NIOSH approved N95 mask.

Skin protection: Wear clothing to protect for contact with skin. Wear gloves when handling and when removing gloves use care to prevent contact with outer surface of the glove.

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: This is a specialty fertilizer designed to promote growth of plants and vegetation. Prevent from spilling into natural waterways, sewers or drains.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Clear water-like liquid
Odour:	No odour
Odour Threshold:	No data available
pH:	7.8
Melting Point/Freezing Point:	No data available
Initial Boiling Point:	No data available
Flash Point:	None
Evaporation Rate:	As for water
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:	No data
Solubility:	Completely miscible
Partition Coefficient:	No data available
Autoignition Temperature:	No data available
Decomposition Temperature:	Not available
Viscosity:	Not available
Explosive Properties:	Not available
Oxidizing Properties:	Not available
Percent Volatiles:	Not available

9.2 Other safety information: None

10. Stability and Reactivity

10.1 Reactivity

Under recommended storage conditions

10.2 Chemical Stability

Stable under recommended storage conditions. Storage should be in a dry, clean area. Store away from incompatible materials, ignition sources and open flames.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

None

10.5 Incompatible materials

Reducing agents, strong acids. May react with ammonium salts resulting in the evolution of ammonia gas.

10.6 Hazardous decomposition products

Hydrogen

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

No GHS classification

Skin corrosion/irritation

No GHS classification

Serious eye damage/eye irritation

No GHS classification

Respiratory or skin sensitization

No GHS classification

Germ Cell Mutagenicity

No GHS classification

Carcinogenicity

No GHS classification

Reproductive toxicity

No GHS classification

Specific Target Organ Toxicity – Single exposure

No GHS classification

Specific Target Organ Toxicity – Repeated exposure

No GHS classification

Aspiration Hazard

No GHS classification

Aquatic Toxicity

No GHS classification

Additional information

Relevant toxicity data:

Component	LD₅₀	LC₅₀
Potassium Silicate CAS No 1312-76-1	>5000 mg/kg (oral/female rat) >5000 mg/kg (dermal/rat)	2.06 mg/l (inhalation/rat, 4.4 hour)
Potassium Chloride CAS No 7447-40-7	2600 mg/kg (oral/rat)	No data

12. Ecological Information

12.1 Toxicity

Potassium Silicate, CAS No 1312-76-1

Toxicity Fish Species: LC₅₀ Leuciscus Idus (Golden Orfe): >146 mg/l, 48 hour
Toxicity to daphnia and other: EC₅₀ Daphnia Magna (Water Flea): >146 mg/l, 24 hour
Aquatic Invertebrates
Toxicity to Algae: No data

Potassium Chloride, CAS No 7447-40-7

hr Toxicity Fish Species: LC₅₀ Pimephales Promelas (Fathead Minnow): 880 mg/l – 96
Toxicity to daphnia and other: EC₅₀ Daphnia Magna (Water Flea): 440 mg/l – 48 hr
Aquatic Invertebrates
72 hr Toxicity to Algae: EC₅₀ Desmodesmus Subspicatus (Green Algae) – >100 mg/l -

12.2 Persistence and degradability

No data

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: All ingredients listed

AMERICAN FEDERAL REGULATIONS:

TSCA: (Toxic Substance Control Act): All ingredients listed

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

SARA 311/312 Hazardous chemical: Acute 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:

None

Pennsylvania Right to Know Components:

Potassium Silicate, CAS No 1312-76-1
Potassium Chloride, CAS No 7447-40-7

New Jersey Right to Know Components:

Potassium Silicate, CAS No 1312-76-1
Potassium Chloride, CAS No 7447-40-7

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 9, 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