SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	**ProAcqua™ Finish**
Other means of identification	None
Synonyms	Proprietary blend of plant nutrients
Recommended use	Source of plant nutrients for food and non-food crops
Recommended restrictions	None known.
Manufacturer information	Compass Minerals USA Inc. 9900 West 109th Street, Suite 100 Overland Park, KS 66210 US Phone (913) 344-9200
Supplier	Compass Minerals Manitoba Inc. 6700 Century Avenue Mississauga L5N 6A4 CA http://www. compassminerals.com/ Phone (905) 567-0231 techservicesrequests @compassminerals.com
CHEMTREC	1-800-424-9300
CANUTEC	1-613-996-6666

2. Hazards Identification

Physical hazards	Oxidizing solids	Category 3
Health hazards	Acute toxicity, oral	Category 4
	Reproductive toxicity	Category 1B
Environmental hazards	Not classified.	
WHMIS 2015 defined hazards	Not classified	

Label elements

Signal word	Danger
Hazard statement	May intensify fire; oxidizer. Harmful if swallowed. May damage fertility or the unborn child.
Precautionary statement	
Prevention	Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	In case of fire: Use appropriate media to extinguish. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	1.84% of the mixture consists of component(s) of unknown acute oral toxicity.

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Inorganic acid		HMIRA 11549	HMIRA 11549
Metal amine chelate		HMIRA 11549	HMIRA 11549
Nitrate salt		HMIRA 11549	HMIRA 11549

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The filing date associated with this trade secret exemption is 2017-05-26

4. First Aid Measures

Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Eye contact Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

Ingestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Most important symptoms/effects, acute and delayed Dusts may irritate the respiratory tract, skin and eyes.

Indication of immediate medical attention and special treatment needed Symptoms may be delayed.

General information IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Take off all contaminated clothing immediately. Wash contaminated clothing before reuse. Contact with combustible material may cause fire. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

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

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical Greatly increases the burning rate of combustible materials. Containers may explode when heated. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.

Specific methods Cool containers exposed to flames with water until well after the fire is out.

General fire hazards May intensify fire; oxidizer. Contact with combustible material may cause fire.

Hazardous combustion products May include and are not limited to: Oxides of nitrogen. Oxides of phosphorus.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep away from clothing and other combustible materials. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. For waste disposal, see section 13 of the SDS.

Environmental precautions Do not discharge into lakes, streams, ponds or public waters.

7. Handling and Storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood.
Minimize dust generation and accumulation.
Take any precaution to avoid mixing with combustibles.
Avoid contact with eyes, skin and clothing.
Wear appropriate personal protective equipment.
Do not breathe dust.
Ensure adequate ventilation.
Do not taste or swallow.
Pregnant or breastfeeding women must not handle this product.
Avoid prolonged exposure.
Observe good industrial hygiene practices.
Wash thoroughly after handling.
When using do not eat or drink.
When handling, do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities

Store locked up.
Keep away from heat.
Store in a well-ventilated place.
Do not store near combustible materials.
Store away from incompatible materials (see Section 10 of the SDS).
Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value	Form
Inorganic acid (CAS HMIRA 11549)	STEL	6 mg/m3	Inhalable
	TWA	2 mg/m3	Inhalable

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value	Form
Inorganic acid (CAS HMIRA 11549)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Metal amine chelate (CAS HMIRA 11549)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value	Form
Inorganic acid (CAS HMIRA 11549)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Inorganic acid (CAS HMIRA 11549)	STEL	6 mg/m3	Inhalable fraction.
	TWA	2 mg/m3	Inhalable fraction.
Metal amine chelate (CAS HMIRA 11549)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Metal amine chelate (CAS HMIRA 11549)	TWA	1 mg/m3	Dust and mist.

Biological limit values

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

Appropriate engineering controls

Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear chemical goggles.

Skin protection	
Hand protection	Wear suitable gloves.
Other	As required by employer code.
Respiratory protection	Wear dust mask.
Thermal hazards	Not applicable.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. Physical and Chemical Properties

Appearance	Solid
Physical state	Solid.
Form	Powder.
Color	Yellow
Odor	Not available.
Odor threshold	Not available.
pH	3.5
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	Not available.
Partition coefficient (n-octanol/water)	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	390 g/l
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	1100 g/cm³
Explosive properties	Not explosive.
Oxidizing properties	May intensify fire; oxidizer.

10. Stability and Reactivity

Reactivity	May react with incompatible materials.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat. Do not mix with other chemicals.
Incompatible materials	Combustible material. Reducing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of nitrogen. Oxides of potassium.

11. Toxicological Information

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Information on likely routes of exposure

Ingestion Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation Dust may irritate respiratory system. Prolonged inhalation may be harmful.

Skin contact Dust or powder may irritate the skin.

Eye contact Dust may irritate the eyes.

Symptoms related to the physical, chemical and toxicological characteristics Dusts may irritate the respiratory tract, skin and eyes.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Components	Species	Test Results
Inorganic acid (CAS HMIRA 11549)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, HSDB
		> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 2.1 mg/L, 4 Hours, ECHA
		> 2 mg/L, 5 Hours, ECHA
		> 0.2 mg/L, 4 Hours
Oral		
LD50	Chicken	2950 mg/kg, HSDB
		3 g/kg
	Dog	2000 mg/kg, HSDB
	Mouse	3450 mg/kg
	Rat	> 2600 mg/kg
		4080 mg/kg, ECHA, female
		3450 mg/kg, ECHA, male
Metal amine chelate (CAS HMIRA 11549)		
Acute		
Dermal		
LD50	Not available	
	Rat	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 5.3 mg/L, 4 Hours
		5.3 mg/l/4h, ECHA
Oral		
LD50	Mouse	830 - 1000 mg/kg, ECHA
	Rat	830 mg/kg
Nitrate salt (CAS HMIRA 11549)		
Acute		
Dermal		
LD50	Rat	> 5000 mg/kg, ECHA
		> 5000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 0.5 mg/l/4h, ECHA
		> 0.5 mg/L, 4 Hours
Oral		
LD50	Rabbit	1901 mg/kg, ECHA
		1166 mg/kg, HSDB

Components	Species	Test Results
	Rat	> 2000 mg/kg
		3750 mg/kg, ECHA

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

- **Exposure minutes** Not available.
- **Erythema value** Not available.
- **Oedema value** Not available.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

- **Corneal opacity value** Not available.
- **Iris lesion value** Not available.
- **Conjunctival reddening value** Not available.
- **Conjunctival oedema value** Not available.
- **Recover days** Not available.

Respiratory or skin sensitization

- **Respiratory sensitization** Not a respiratory sensitizer.
- **Skin sensitization** This product is not expected to cause skin sensitization.

Mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity See below.

Canada - Manitoba OELs: carcinogenicity

BORATE COMPOUNDS, INORGANIC, INHALABLE FRACTION (CAS HMIRA 11549)	Not classifiable as a human carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity May damage fertility or the unborn child.

Teratogenicity Not available.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components		Species	Test Results
Inorganic acid (CAS HMIRA 11549)			
Crustacea	EC50	Daphnia	134 mg/L, 48 Hours
Aquatic			
Fish	LC50	Razorback sucker (Xyrauchen texanus)	> 100 mg/L, 96 hours
		Channel catfish (Ictalurus punctatus)	838 mg/L, 96 hours
		Western mosquitofish (Gambusia affinis)	22.5 mg/L, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Mobility in general Not available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, global warming potential) are expected from this component.

13. Disposal Considerations

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

Local disposal regulations Dispose in accordance with all applicable 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	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).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

Transport of Dangerous Goods (TDG) Proof of Classification	In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.
General	IMDG: Special Provisions: 964, 967 Limited and Excepted Quantity Provisions: Limited Quantities: 5 kg Limited and Excepted Quantity Provisions: Excepted Quantities: E1 Packing: Instructions: P002, LP02 IBC: Instructions: IBC08 IBC: Provisions: B3 IATA: Passenger and Cargo Aircraft: Limited Quantity: Pkg Inst: Y546 Passenger and Cargo Aircraft: Limited Quantity: Max Net Qty/Pkg: 10 kg Passenger and Cargo Aircraft: Pkg Inst: 559 Passenger and Cargo Aircraft: Max Net/Qty Pkg: 25 kg Cargo Aircraft Only: Pkg Inst: 563 Cargo Aircraft Only: Max Net Qty/Pkg: 100 kg

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number	UN1486
Proper shipping name	Potassium Nitrate
Hazard class	5.1
Packing group	III
Special provisions	A1, A29, B120 IB8, IP3, T1, TP33, W1
Packaging exceptions	152
Packaging non bulk	213
Packaging bulk	240

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number	UN1486
Proper shipping name	POTASSIUM NITRATE
Hazard class	5.1
Packing group	III

IATA/ICAO (Air)

Basic shipping requirements:

UN number	UN1486
Proper shipping name	Potassium Nitrate
Hazard class	5.1
Packing group	III
ERG code	5L

IMDG (Marine Transport)

Basic shipping requirements:

UN number	UN1486
Proper shipping name	POTASSIUM NITRATE
Hazard class	5.1
Packing group	III

DOT

IATA; IMDG; TDG

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

WHMIS 2015 Exemptions Controlled

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Metal amine chelate (CAS HMIRA 11549) Listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - Yes

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

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.

US state regulations See below

US - California Hazardous Substances (Director's): Listed substance

Metal amine chelate (CAS HMIRA 11549) Listed.

US - Illinois Chemical Safety Act: Listed substance

Metal amine chelate (CAS HMIRA 11549)

US - Louisiana Spill Reporting: Listed substance

Metal amine chelate (CAS HMIRA 11549) Listed.

US - Michigan Critical Materials Register: Parameter number

Metal amine chelate (CAS HMIRA 11549) COPPER

US - New Jersey RTK - Substances: Listed substance

Inorganic acid (CAS HMIRA 11549)
Metal amine chelate (CAS HMIRA 11549)
Nitrate salt (CAS HMIRA 11549)

US - Texas Effects Screening Levels: Listed substance

Inorganic acid (CAS HMIRA 11549) Listed.

Nitrate salt (CAS HMIRA 11549) Listed.

US. Massachusetts RTK - Substance List

Nitrate salt (CAS HMIRA 11549)

US. New Jersey Worker and Community Right-to-Know Act

Metal amine chelate (CAS HMIRA 11549)
Nitrate salt (CAS HMIRA 11549)

US. Pennsylvania Worker and Community Right-to-Know Law

Metal amine chelate (CAS HMIRA 11549)
Nitrate salt (CAS HMIRA 11549)

US. Rhode Island RTK

Nitrate salt (CAS HMIRA 11549)

US. California Proposition 65

Not Listed.

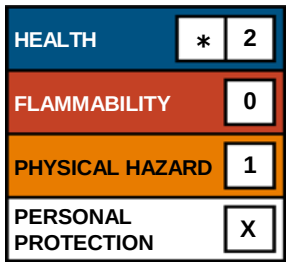
Inventory status

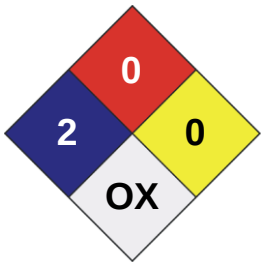
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





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Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.