

SAFETY DATA SHEET

1. Product and Company Identification

Product identifier ProAcqua™ Flow

Other means of identification ProAcqua Translok

Synonyms Proprietary blend of plant nutrients

Recommended useSource of plant nutrients for food and non-food crops

Recommended restrictions None known.

Manufacturer information Compass Minerals USA Inc.

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Supplier Compass Minerals Manitoba Inc.

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CHEMTREC 1-800-424-9300 **CANUTEC** 1-613-996-6666

2. Hazards Identification

Physical hazardsOxidizing solidsCategory 3Health hazardsReproductive toxicityCategory 1B

Environmental hazards Not classified.

WHMIS 2015 defined hazards Not classified

Label elements



Signal word Danger

Hazard statement May intensify fire; oxidizer.

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.

Wear protective gloves/protective clothing/eye protection/face protection.

Response In case of fire: Use appropriate media to extinguish.

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

None known

None known.

WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

Hazard(s) not otherwise

classified (HNOC)

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Supplemental information None.

3. Composition/Information on Ingredients

Mixture

#28006 Page: 1 of 9 Issue date 17-October-2017

Chemical name	Common name and synonyms	CAS number	%
Boric acid salt		HMIRA 11561	HMIRA 11561
Nitrate salt #1		HMIRA 11561	HMIRA 11561
Nitrate salt #2		HMIRA 11561	HMIRA 11561

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 2017-05-31

4. First Aid Measures

Inhalation
Skin contact
Eye contact

If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.

Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain

medical attention if irritation persists.

Ingestion

Rinse mouth. Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

Obtain medical attention.

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

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. Contact with combustible material may cause fire. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). 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
General fire hazards
Hazardous combustion
products

Cool containers exposed to flames with water until well after the fire is out. May intensify fire; oxidizer. Contact with combustible material may cause fire.

May include and are not limited to: Oxides of magnesium.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. 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. Ventilate the contaminated area. 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. Wear appropriate protective equipment and clothing during clean-up. For waste disposal, see section 13 of the SDS.

Environmental precautions

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

#28006 Page: 2 of 9 Issue date 17-October-2017

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.

Provide adequate ventilation.

Wear appropriate personal protective equipment.

Pregnant or breastfeeding women must not handle this product.

Avoid prolonged exposure.

Observe good industrial hygiene practices.

Wash thoroughly after handling.

When handling, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat.

Do not store near combustible materials.

Store in a well-ventilated place.

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. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components Value **Type** Boric acid salt (CAS HMIRA STEL 3 ppm 11561) **TWA**

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

Components Value Type Boric acid salt (CAS HMIRA **STEL** Inhalable fraction. 6 mg/m3 11561) TWA 2 mg/m3 Inhalable fraction.

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

Form Components Value Type STEL 6 mg/m3 Inhalable fraction. Boric acid salt (CAS HMIRA 11561) TWA 2 mg/m3 Inhalable fraction.

US. ACGIH Threshold Limit Values

Form Components Value **Type** Boric acid salt (CAS HMIRA 6 mg/m3 STEL Inhalable fraction. 11561) **TWA** 2 mg/m3 Inhalable fraction.

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 safety glasses with side shields.

Skin protection

Wear suitable gloves. Confirm with a reputable supplier first. **Hand protection**

Other As required by employer code.

Wear dust mask. Respiratory protection Not applicable. Thermal hazards

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks

1 mg/m3

Form

and immediately after handling the product. When using do not eat or drink.

9. Physical and Chemical Properties

Powder **Appearance** Solid. Physical state Solid **Form** Yellow Color Not available. Odor

#28006 Page: 3 of 9 Issue date 17-October-2017

Not available. **Odor threshold** 4.4 (10% solution) На Melting point/freezing point Not available.

Initial boiling point and boiling

range

Not available.

Not available. Pour point Not available. Specific gravity Not available. **Partition coefficient**

(n-octanol/water)

Not available. Flash point Not available. **Evaporation rate** 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. Not available. Vapor density Not available. Relative density 300 q/l Solubility(ies)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. **Viscosity** Not available.

Other information

1.05 g/cm³ **Bulk density Explosive properties** Not explosive.

May intensify fire; oxidizer. **Oxidizing properties**

10. Stability and Reactivity

Reactivity May react with incompatible materials.

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Material is stable under normal conditions. **Chemical stability** Heat. Do not mix with other chemicals.

Conditions to avoid Combustible material. Reducing agents. Acids. Bases. Incompatible materials

Hazardous decomposition

products

May include and are not limited to: Oxides of magnesium.

11. Toxicological Information

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

Information on likely routes of exposure

Ingestion May cause stomach distress, nausea or vomiting.

Inhalation Prolonged inhalation may be harmful.

No adverse effects due to skin contact are expected. Skin contact Direct contact with eyes may cause temporary irritation. Eye contact

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results	
Boric acid salt (CAS HMIRA 115	61)		
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
		> 2000 mg/kg, ECHA	
		> 2000 mg/kg, 24 Hours	
Inhalation			
LC50	Rat	> 2 mg/l/4h, ECHA	
		> 2 mg/L, 5 Hours	
		> 2 mg/L, 4 Hours	
Oral			
LD50	Dog	2000 mg/kg	
	Guinea pig	5300 mg/kg	
	Mouse	3450 mg/kg	
	Rat	> 250 mg/kg	
		5560 mg/kg, ECHA	
		2500 mg/kg	
Nitrate salt #1 (CAS HMIRA 115	61)		
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	
	Rat	> 2000 mg/kg	
		3750 mg/kg, ECHA	
Nitrate salt #2 (CAS HMIRA 115	61)		
Acute			
Dermal			
LD50	Rabbit	7940 mg/kg	
	Rat	> 5000 mg/kg, ECHA	
		> 5000 mg/kg, 24 Hours	
Oral			
LD50	Mouse	2085 mg/kg, ECHA	
	Rat	4500 mg/kg, HSDB	
		2950 mg/kg	
		2800 mg/kg, HSDB	
		2217 mg/kg, Sigma Aldrich	
Skin corrosion/irritation	Prolonged skin contact may cause to		
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	Not available.		
value	-		

Conjunctival oedema value Not available.

Recover days Not available.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

Boric acid salt (CAS HMIRA 11561) Irritant

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 Not classifiable as a human carcinogen.

FRACTION (CAS HMIRA 11561)

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

Not listed.

Reproductive toxicity May damage fertility or the unborn child.

Teratogenicity

Specific target organ toxicity single exposure

Not available.

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

Nitrate salt #1 (CAS HMIRA 11561)

Aquatic

Fish LC50 Western mosquitofish (Gambusia affinis) 22.5 mg/L, 96 hours

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

Bioaccumulative potentialNo data available.Mobility in soilNo data available.Mobility in generalNot 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 instructionsDispose 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.

#28006 Page: 6 of 9 Issue date 17-October-2017

General IMDG:

Special Provisions: 223, 274, 900

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: May Not Oty/Pkg: 10 kg

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 UN1479

Proper shipping name Oxidizing solid, n.o.s.

Hazard class 5.1 Packing group III

Special provisions 62, 148, IB8, IP3, T1, TP33

Packaging exceptions152Packaging non bulk213Packaging bulk240

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number UN1479

Proper shipping name OXIDIZING SOLID, N.O.S.

Hazard class5.1Packing groupIIISpecial provisions16, 68

IATA/ICAO (Air)

Basic shipping requirements:

UN number UN1479

Proper shipping name Oxidizing solid, n.o.s.

Hazard class 5.1
Packing group III
ERG code 5L

IMDG (Marine Transport)

Basic shipping requirements:

UN number UN1479

Proper shipping name OXIDIZING SOLID, N.O.S.

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)

Not 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

No

hazardous substance

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Nitrate salt #2HMIRA 11561HMIRA 11561

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 - New Jersey RTK - Substances: Listed substance

Boric acid salt (CAS HMIRA 11561) Nitrate salt #1 (CAS HMIRA 11561) Nitrate salt #2 (CAS HMIRA 11561)

US - Texas Effects Screening Levels: Listed substance

Nitrate salt #1 (CAS HMIRA 11561) Listed.
Nitrate salt #2 (CAS HMIRA 11561) Listed.

US. Massachusetts RTK - Substance List

Nitrate salt #1 (CAS HMIRA 11561) Nitrate salt #2 (CAS HMIRA 11561)

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

Nitrate salt #1 (CAS HMIRA 11561) Nitrate salt #2 (CAS HMIRA 11561)

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

Nitrate salt #1 (CAS HMIRA 11561) Nitrate salt #2 (CAS HMIRA 11561)

US. Rhode Island RTK

Nitrate salt #1 (CAS HMIRA 11561) Nitrate salt #2 (CAS HMIRA 11561)

US. California Proposition 65

Not Listed.

Inventory status

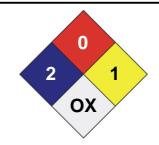
Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)YesUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

*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





Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

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Prepared by Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

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

document.