

# SAFETY DATA SHEET

## 1. Product

### 1.1 Product identifier

Product name	Agri-Hydro 4-0-1
Trade name and synonyms	Nitrogen Fertilizer with Non-Ionic Surfactant

### 1.2 Relevant uses of the substance and uses advised against

Identified uses	Fertilizer and in blending applications
Uses advised against	No available data

## 2. Hazards Identification

### 2.1 OSHA/HCS status

This material is considered non-hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### 2.2 Classification of substance or mixture

Classified as nonhazardous in accordance with current laws.

### 2.3 GHS Label elements

Not available

### 2.4 Signal word (GHS-US)

Not available

### 2.5 Hazard statements (GHS-US)

May cause mild eye and skin irritation

### 2.6 Other hazards

Not available

### 2.7 Precautionary Statements

(a.)**Prevention:** Use appropriate personal protective equipment (PPE) i.e. gloves and safety goggles.

(b.)**Response:** IF IN EYES: Rinse cautiously with water for several minutes. If eye irritation persists, seek medical attention. IF ON SKIN: Wash with plenty of soap and water.

(c.)**Storage:** Store in original container out of reach of children.

(d.)**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

(e.)**Hazards not otherwise classified:** None known.

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## 3. Composition/information on ingredients

Chemical Name	Common Name	CAS number	Exposure Limits
Urea	Water Soluble Nitrogen	57-13-6	Proprietary formulation as allowed by 29cfr 1910. 1200 (d) 1
Potassium Nitrate		7757-75-1	
Iron EDTA	Iron Chelate	16455-61-1	No limits established
Manganese EDTA	Manganese Chelate	15375-84-5	
Humic Acid		1415-93-6	
Extract of Ascophyllum nodosum		84775-78-0	
Polyoxypropylene-Polyoxyethylene block copolymer	Non-Ionic Surfactant	106392-12-5	

## 4. First Aid Measures

### 4.1 Description of necessary first aid measures

<b>Inhalation</b>	No known significant effects or critical hazards.
<b>Skin contact</b>	Wash with water, if itching and redness persist. Seek medical attention.
<b>Eye contact</b>	Flush eyes with water, continue flushing for at least 15 minutes.
<b>Ingestion</b>	Rinse mouth with water. For heavy ingestion of material, consult health care professionals if diarrhea, or stomach cramps persist.

## 5. Fire Fighting Measures

### 5.1 Extinguishing media

#### (a.) Suitable Extinguishing media:

Extinguish with water, fog, foam, and/or carbon dioxide.

#### (b.) Unsuitable Extinguishing media:

Avoid direct stream of water to extinguish.

### 5.2 Special Protective Equipment for firefighters

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus. (SCBA) with a full face piece operating in positive pressure mode.

### 5.3 General fire hazards

This product is not flammable.

## 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment, and emergency procedures

Use appropriate personal protective equipment (PPE) i.e. gloves and safety goggles.

### 6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not allow to enter drains, sewers, or watercourses.

### 6.3 Methods and materials for containment and cleaning up

No specialized clothing or material required. Contain spill. May be cleaned up and disposed of in accordance with State and Federal regulations.

## 7. Handling and Storage

### 7.1 Precautions for safe handling

No personal protection is required. Standard safe handling procedures should be used. Protective gloves and safety glasses are recommended.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool dry place, and protect from freezing. Keep container closed when not in use.

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## 8. Exposure Controls / Personal Protection

### 8.1 Occupational exposure limits

Not available

### 8.2 Individual protection measures

#### Respiratory Protection

Not required

#### Ventilation

No special requirements

#### Protective Gloves

Chemical resistant rubber gloves

#### Eye Protection

Chemical goggles

#### Other Equipment

Eye wash and safety shower  
in work area.

#### Work / Hygienic Practices

Avoid contact with eyes, skin, and  
garments. Wash thoroughly after

## 9. Physical and chemical properties

**Appearance** Dark Brown Liquid

**Physical State** Liquid

**Form** Liquid

**Color** Dark brown

**Odor** Clean, unobtrusive aroma

**Odor threshold** Not available

**pH** 6.0-6.5

**Salt-Out / Crystallization Temp** Not available

**Melting Point / Freezing Point** Not available

**Initial boiling point and boiling point range** Not available

**Flash point** Not available

**Evaporation rate** Not available

**Flammability (solid, gas)** N/A

**Upper/lower flammability or explosive limits** Not available

**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

**Specific Gravity** 1.10

**Pounds per Gallon** 9.18 lbs.

**Solubility(ies)** 100%

**Partition coefficient (n-octanol/water)** Not available

**Auto-ignition temperature** Not available

**Decomposition temperature** Not available

**Viscosity** Not available

**Other information.**

**Bulk density** N/a

**pH in aqueous solution** Not available

## 10. Stability and Reactivity

**Reactivity** This product is stable and non-reactive under normal conditions of use, storage, and transport.

**Chemical stability** This product is stable under normal conditions.

**Possibility of hazardous reactions** Not available

**Conditions to avoid** Temperatures below freezing (<32°F/0°C)

**Hazardous decomposition products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## 11. Toxicological information

### 11.1 Information on likely routes of exposure

**Inhalation** No known significant effects or critical hazards.  
**Skin contact** Prolonged skin contact may cause slight irritation.  
**Eye contact** Exposure may cause slight irritation.  
**Ingestion** May cause discomfort if swallowed.

### 11.2 Further Information

If exposure causes irritation, refer to first aid measures in section 4.

## 12. Ecological information

### 12.1 Toxicity

Not available

### 12.2 Persistence – degradability

Not available

### 12.3 Potential for bioaccumulation

Not available

### 12.4 Mobility in soil

This product is water soluble and may disperse in soil.

### 12.5 Other adverse effects

Not available

## 13. Disposal considerations

### 13.1 Disposal methods

Dispose in accordance with current local, state, and federal regulations.

### 13.2 Contaminated packaging

Single use containers may retain product residue. Empty containers should be rinsed prior to disposal in accordance with current local, state, and federal regulations.

## 14. Transportation information

This product is not subject to transportation regulations.

## 15. Regulatory information

This product is not subject to regulations.

## 16. Other information, including date of preparation and/or revision

### 16.1 Other information

### 16.2 Date of Preparation and/or revision

<b>Effective Date</b>	4/2/15
<b>Revision Date</b>	4/2/15

This information contained herein is based on the present state of our knowledge. It characterizes this product with regard to the appropriate safety precautions. Product specifications contained in this SDS represent typical results of normal production