# SAFETY DATA SHEET

#### 1. Identification

Product identifier CannAg 0-50-30

Recommended use Agricultural / Horticultural Use - NPK fertilizer with micronutrients - Refer to product label

Recommended restrictions None known

Manufacturer

**Company Name** CannAg Inc.

1904 United Way, Suite #106

Medford, OR 97504

**During Business Hours Telephone** 1-541-973-2244

**Emergency phone number** CHEMTREC (24 hours): 1-800-424-9300

> USA, Canada, Puerto Rico 1-800-424-9300 Virgin Islands 1-703-527-3887

International Maritime

### 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

> Serious eye damage/eye irritation Category 2A

**Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word Warning

Harmful if swallowed. Causes serious eyeirritation. **Hazard statement** 

**Precautionary statement** 

Prevention Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear

eve/face protection.

If swallowed: Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water Response

for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse

mouth. If eye irritation persists: Get medical advice/attention.

Storage Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 74.09% of the mixture consists of component(s) of unknown acute oral toxicity.

### 3. Composition/information on ingredients

**Mixtures** 

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Chemical name	Common name and synonyms	CAS number	%
Monopotassium phosphate		7778-77-0	NA
Monoammonium Phosphate		7722-76-1	NA
Manganese EDTA, disodium salt		15375-84-5	0.3999860001
EDTA, Disodium Copper(II) Salt		14025-15-1	0.3701362986
Boric acid, (H3BO3)		10043-35-3	0.1199988
Sodium Molybdate, Dihydrate		10102-40-6	0.00099999
Other components below reportable leve	els		73.1991380082

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Get medical advice/attention if you feel unwell. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Severe eye irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General information** 

Ingestion

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.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

Fire-fighting equipment/instructions

Specific methods

General fire hazards

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

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

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Use water spray to cool unopened containers.

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. 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 Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Do not taste or swallow. Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

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Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

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### 8. Exposure controls/personal protection

### Occupational exposure limits

Components	Туре	Value	
Manganese EDTA, disodium salt (CAS 15375-84-5)	Ceiling	5 mg/m3	
Sodium Molybdate, Dihydrate (CAS 10102-40-6)	PEL	5 mg/m3	
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	Form
Boric acid, (H3BO3) (CAS 10043-35-3)	STEL	6 mg/m3	Inhalable fraction.
,	TWA	2 mg/m3	Inhalable fraction.
Sodium Molybdate, Dihydrate (CAS 10102-40-6)	TWA	0.5 mg/m3	Respirable fraction
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	Туре	Value	Form
EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)	TWA	1 mg/m3	Dust and mist.
Manganese EDTA, disodium salt (CAS 15375-84-5)	STEL	3 mg/m3	Fume.
10070-04-0)	TWA	1 mg/m3	Fume.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

### Individual protection measures, such as personal protective equipment

Face shield is recommended. Wear safety glasses with side shields (orgoggles). Eye/face protection

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Wear suitable protective clothing. Other

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection not Respiratory protection

required.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

Keep away from food and drink. Always observe good personal hygiene measures, such as General hygiene considerations washing after handling the material and before eating, drinking, and/or smoking. Routinely wash

work clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

**Appearance** Solid. Granular.

Solid Physical state

**Form** Solid. Granular.

Color Grev. Odor None.

Not available. Odor threshold Not available. Ha

Not available. Salt-Out / Crystallization Temp

Melting point/freezing point Not available.

Initial boiling point and boiling range

Not available.

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Not available. Flash point Not available **Evaporation rate** Not available. Flammability (solid, gas)

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. Not available

Vapor pressure Vapor density

Not available.

Relative density

Not available.

Solubility(ies)

Solubility (water)

Partial

Partition coefficient

Not available.

(n-octanol/water)

Not available.

**Auto-ignition temperature Decomposition temperature** 

Not available.

Viscosity Not available.

## 10. Stability and reactivity

Reactivity

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

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous

reactions

Conditions to avoid

No dangerous reaction known under conditions of normal use.

Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure

Ingestion Harmful if swallowed.

Inhalation Prolonged inhalation may be harmful.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Severe eye

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irritation.

Information on toxicological effects

Harmful if swallowed. Not known. **Acute toxicity** 

Components **Species Test Results** 

Boric acid, (H3BO3) (CAS 10043-35-3)

Acute

Dermal LD50 Rabbit > 2000 mg/kg

Oral

LD50 Chicken 2.95 g/kg

> Dog 2000 mg/kg Mouse 3450 mg/kg Rat 2660 mg/kg

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**Test Results** Components **Species** Monopotassium Phosphate (CAS 7778-77-0) **Acute** Dermal > 4650 mg/kg LD50 Rabbit Monoammonium Phosphate (CAS 7722-76-1) Acute Dermal > 7940 mg/kg LD50 Rabbit \* Estimates for product may be based on additional component data not shown. Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eve damage/eve Causes serious eye irritation. irritation Respiratory or skin sensitization Not available. Respiratory sensitization Skin sensitization This product is not expected to cause skin sensitization. Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Reproductive toxicity This product is not expected to cause reproductive or developmental effects. Specific target organ toxicity -Not classified. single exposure Specific target organ toxicity -Not classified. repeated exposure **Aspiration hazard** Not available. **Chronic effects** Prolonged inhalation may be harmful. 12. Ecological information **Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. **Product Test Results Species** CannAg 0-50-30 Aquatic Acute Fish LC50 Fish 25000 mg/l, 96 hr estimated **Test Results** Components **Species** Boric acid, (H3BO3) (CAS 10043-35-3) Aquatic Fish LC50 Colorado squawfish (Ptychocheilus > 100 mg/l, 96 hours EDTA, Disodium Copper(II) Salt (CAS 14025-15-1) **Aquatic** Fish LC50 Channel catfish (Ictalurus punctatus) 838 mg/l, 96 hours Monopotassium phosphate (CAS 7778-77-0) Aquatic Acute Fish LC50 Fish > 900 mg/l, 48 hours

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2 ppm, 672 hours

Monoammonium phosphate (CAS 7722-76-1)

Aquatic

Acute

LC50 Fish Fish 155 ppm, 96 hours

Sodium Molybdate, Dihydrate (CAS 10102-40-6)

Aquatic

Crustacea EC50 Tubificid worm (Tubifex tubifex) 42.48 - 65.64 mg/l, 48 hours

Fish LC50 Striped bass (Morone saxatilis) > 79.8 mg/l, 96 hours

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

Bioaccumulative potential Not available. No data available. Mobility in soil

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal 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

Dispose of in accordance with local regulations. 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 Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

### 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

This product is not known to be 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)** 

EDTA, Disodium Copper(II) Salt (CAS 14025-15-1) Listed. Manganese EDTA, disodium salt (CAS 15375-84-5) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** 

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

### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Monopotassium Phosphate	7778-77-0		
Monoammonium Phosphate (MAP)	7722-76-1		

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Manganese EDTA, disodium salt (CAS 15375-84-5)

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### US state regulations

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

Boric acid, (H3BO3) (CAS 10043-35-3)

EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)

Manganese EDTA, disodium salt (CAS 15375-84-5)

#### **US. Rhode Island RTK**

EDTA, Disodium Copper(II) Salt (CAS 14025-15-1)

Manganese EDTA, disodium salt (CAS 15375-84-5)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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

11-15-2017

**Revision date** 

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#### Disclaimer

CannAq, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. While the information contained herein are presented in good faith and believed to be accurate, it is provided for your quidance only. Because many factors may affect processing or application, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder are given gratis and we assume no obligation or liability for the information given or results obtained, all such being given and accepted at your risk.

**Revision Information** 

GHS: Classification

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