

# SP Greenhouse / Nursery 13-2-13

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : SP Greenhouse / Nursery 13-2-13  
Product code : M77113

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Fertilizer

#### 1.3. Details of the supplier of the safety data sheet

JR Simplot Company  
P.O. Box 70013  
Boise, ID 83707  
T 1-208-336-2110

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin corrosion/irritation, Category 2 H315  
Serious eye damage/eye irritation, Category 2B H320  
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335

Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Contains : Monoammonium Phosphate; edta iron(iii) sodium salt  
Hazard statements (GHS-US) : H315 - Causes skin irritation  
H320 - Causes eye irritation  
H335 - May cause respiratory irritation  
Precautionary statements (GHS-US) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 - Wash hands, forearms and face thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302+P352 - If on skin: Wash with plenty of water/...  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P312 - Call a poison center/doctor/... if you feel unwell  
P321 - Specific treatment (see supplemental first aid instruction on this label)  
P332+P313 - If skin irritation occurs: Get medical attention  
P337+P313 - If eye irritation persists: Get medical attention  
P362+P364 - Take off contaminated clothing and wash it before reuse  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up  
P501 - Dispose of contents/container to ...in accordance with local/regional/national regulations

#### 2.3. Other hazards

No additional information available

# SP Greenhouse / Nursery 13-2-13

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	GHS-US classification
ammonium calcium nitrate	(CAS No) 15245-12-2	33 - 35	Eye Irrit. 2A, H319
magnesium nitrate, hexahydrate, not oxidizing	(CAS No) 13446-18-9	30 - 33	Not classified
potassium nitrate	(CAS No) 7757-79-1	27 - 29	Eye Irrit. 2B, H320
Monoammonium Phosphate	(CAS No) 7722-76-1	4 - 6	Eye Irrit. 2B, H320 STOT SE 3, H335
Copper EDTA	(CAS No) 14025-15-1	<= 1	Not classified
Disodium octaborate tetrahydrate	(CAS No) 12280-03-4	<= 1	Resp. Sens. 1B, H334
Zinc EDTA	(CAS No) 14025-21-9	<= 1	Not classified
sodium molybdate, dihydrate	(CAS No) 10102-40-6	<= 1	Not classified
edta iron(iii) sodium salt	(CAS No) 15708-41-5	<= 1	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
EDTA Manganese Sodium	(CAS No) 15375-84-5	<= 1	Eye Irrit. 2B, H320

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label).
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
----------------------	-----------------------------------

# SP Greenhouse / Nursery 13-2-13

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.  
Hygiene measures : Wash hands, forearms and face thoroughly after handling.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

<b>Monoammonium Phosphate (7722-76-1)</b>		
Not applicable		
<b>potassium nitrate (7757-79-1)</b>		
Not applicable		
<b>ammonium calcium nitrate (15245-12-2)</b>		
Not applicable		
<b>magnesium nitrate, hexahydrate, not oxidizing (13446-18-9)</b>		
Not applicable		
<b>Disodium octaborate tetrahydrate (12280-03-4)</b>		
Not applicable		
<b>Copper EDTA (14025-15-1)</b>		
Not applicable		
<b>edta iron(iii) sodium salt (15708-41-5)</b>		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Not applicable		
<b>EDTA Manganese Sodium (15375-84-5)</b>		
Not applicable		
<b>sodium molybdate, dihydrate (10102-40-6)</b>		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	0.5 mg/m <sup>3</sup>
Not applicable		
<b>Zinc EDTA (14025-21-9)</b>		
Not applicable		

# SP Greenhouse / Nursery 13-2-13

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: Blue
Odour	: No data available on odour
Odour threshold	: No data available
pH	: No data available
pH solution	: 4 - 5 5% concentration
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Non Flammable
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Relative vapour density at 20 °C	: No data available
Density	: 62 lbs/cubic foot
Solubility	: Soluble. Water: Solubility in water of component(s) of the mixture : • Monoammonium Phosphate: 38 g/100ml • potassium nitrate: 32 g/100ml • ammonium calcium nitrate: 144 g/100ml • magnesium nitrate, hexahydrate, not oxidizing: 120 g/100ml • Zinc EDTA: 100 g/100ml • sodium molybdate, dihydrate: 64 g/100ml • edta iron(iii) sodium salt: < 10 g/100ml
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

# SP Greenhouse / Nursery 13-2-13

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases. Alkalis. Acids.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Ammonia. Oxides of nitrogen. Potassium. Phosphorus oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>Monoammonium Phosphate (7722-76-1)</b>	
LD50 oral rat	5750 mg/kg (Rat)
LD50 dermal rat	> mg/kg
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)
ATE US (oral)	5750.000 mg/kg bodyweight
<b>potassium nitrate (7757-79-1)</b>	
LD50 oral rat	3750 mg/kg (Rat)
LD50 dermal rat	> 5000 mg/kg
ATE US (oral)	3750.000 mg/kg bodyweight
<b>ammonium calcium nitrate (15245-12-2)</b>	
LD50 oral rat	> 2000 mg/kg (Rat)
<b>magnesium nitrate, hexahydrate, not oxidizing (13446-18-9)</b>	
LD50 oral rat	5440 mg/kg (Rat)
ATE US (oral)	5440.000 mg/kg bodyweight
<b>edta iron(iii) sodium salt (15708-41-5)</b>	
LD50 oral rat	5000 mg/kg (Rat)
ATE US (oral)	5000.000 mg/kg bodyweight
<b>sodium molybdate, dihydrate (10102-40-6)</b>	
LD50 oral rat	4233 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)
ATE US (oral)	4233.000 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes eye irritation.

Respiratory or skin sensitisation : Not classified.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause respiratory irritation.

# SP Greenhouse / Nursery 13-2-13

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after eye contact : Causes eye irritation.

### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>Monoammonium Phosphate (7722-76-1)</b>	
LC50 fish 1	155 ppm (96 h; Pimephales promelas)

<b>potassium nitrate (7757-79-1)</b>	
LC50 fish 1	162 mg/l (96 h; Pisces; Lethal)
LC50 other aquatic organisms 1	39 mg/l (96 h; Daphnia magna)
EC50 other aquatic organisms 1	200 - 1000 mg/l (Plankton; Nocivity test)
LC50 fish 2	1378 mg/l (Poecilia reticulata)
LC50 other aquatic organisms 2	490 mg/l (48 h; Daphnia magna)
TLM fish 1	3000 mg/l (96 h; Lepomis macrochirus)
TLM fish 2	162 mg/l (96 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	39 mg/l (96 h; Daphnia magna)
Threshold limit other aquatic organisms 2	490 mg/l (48 h; Daphnia magna)

<b>edta iron(iii) sodium salt (15708-41-5)</b>	
LC50 fish 1	2592 mg/l (96 h; Pisces)

<b>sodium molybdate, dihydrate (10102-40-6)</b>	
LC50 fish 1	9000 mg/l (72 h; Salmo gairdneri (Oncorhynchus mykiss); Nominal concentration)
EC50 Daphnia 1	3100 mg/l (24 h; Daphnia magna; Nominal concentration)
LC50 fish 2	7600 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Nominal concentration)
EC50 Daphnia 2	330 mg/l (48 h; Daphnia magna; Nominal concentration)
Threshold limit algae 1	> 100 mg/l (72 h; Scenedesmus subspicatus; Biomass)
Threshold limit algae 2	12.5 mg/l (72 h; Scenedesmus subspicatus)

#### 12.2. Persistence and degradability

<b>SP Greenhouse / Nursery 13-2-13</b>	
Persistence and degradability	Not established.

<b>Monoammonium Phosphate (7722-76-1)</b>	
Persistence and degradability	Biodegradability in water: no data available. Not established.

<b>potassium nitrate (7757-79-1)</b>	
Persistence and degradability	Biodegradability: not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

<b>ammonium calcium nitrate (15245-12-2)</b>	
Persistence and degradability	Biodegradability in water: no data available. Not established.

<b>magnesium nitrate, hexahydrate, not oxidizing (13446-18-9)</b>	
Persistence and degradability	Biodegradability: not applicable.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

<b>Disodium octaborate tetrahydrate (12280-03-4)</b>	
Persistence and degradability	Not established.

<b>Copper EDTA (14025-15-1)</b>	
Persistence and degradability	Not established.

# SP Greenhouse / Nursery 13-2-13

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<b>edta iron(iii) sodium salt (15708-41-5)</b>	
Persistence and degradability	Biodegradable in water. Not established.
<b>EDTA Manganese Sodium (15375-84-5)</b>	
Persistence and degradability	Not established.
<b>sodium molybdate, dihydrate (10102-40-6)</b>	
Persistence and degradability	Biodegradability: not applicable. Photolysis in water. No (test)data on mobility of the substance available. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
<b>Zinc EDTA (14025-21-9)</b>	
Persistence and degradability	Non degradable in the soil. Adsorbs into the soil. Not established.

### 12.3. Bioaccumulative potential

<b>SP Greenhouse / Nursery 13-2-13</b>	
Bioaccumulative potential	Not established.
<b>Monoammonium Phosphate (7722-76-1)</b>	
Bioaccumulative potential	Not bioaccumulative. Not established.
<b>potassium nitrate (7757-79-1)</b>	
Bioaccumulative potential	No bioaccumulation data available. Not established.
<b>ammonium calcium nitrate (15245-12-2)</b>	
Bioaccumulative potential	No bioaccumulation data available. Not established.
<b>magnesium nitrate, hexahydrate, not oxidizing (13446-18-9)</b>	
Log Pow	-0.61 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable.
<b>Disodium octaborate tetrahydrate (12280-03-4)</b>	
Bioaccumulative potential	Not established.
<b>Copper EDTA (14025-15-1)</b>	
Bioaccumulative potential	Not established.
<b>edta iron(iii) sodium salt (15708-41-5)</b>	
Log Pow	-10.6
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
<b>EDTA Manganese Sodium (15375-84-5)</b>	
Bioaccumulative potential	Not established.
<b>sodium molybdate, dihydrate (10102-40-6)</b>	
BCF fish 1	4.9 (28 days; Oncorhynchus tshawytscha; Anhydrous form)
BCF other aquatic organisms 1	164.3 (Mollusca; Anhydrous form)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not established.
<b>Zinc EDTA (14025-21-9)</b>	
Bioaccumulative potential	No bioaccumulation data available. Not established.

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

- Effect on the global warming : No known ecological damage caused by this product.
- Other information : Avoid release to the environment.

# SP Greenhouse / Nursery 13-2-13

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT  
Not regulated for transport

#### TDG

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

ammonium calcium nitrate	CAS No 15245-12-2	33 - 35%
magnesium nitrate, hexahydrate, not oxidizing	CAS No 13446-18-9	30 - 33%
Disodium octaborate tetrahydrate	CAS No 12280-03-4	<= 1%
sodium molybdate, dihydrate	CAS No 10102-40-6	<= 1%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### National regulations

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

#### potassium nitrate (7757-79-1)

U.S. - New Jersey - Right to Know Hazardous Substance List



# SP Greenhouse / Nursery 13-2-13

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 16: Other information

Other information : None.

Full text of H-statements:

H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation

SDS US (GHS HazCom 2012)

*Disclaimer: This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.*