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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture

Product name : Coastal Farm & Ranch 13-13-13 w/micros

Product code : M77787

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

1.3. Details of the supplier of the safety data sheet

JR Simplot Company Boise, ID 83707 T 1-208-336-2110

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Eye Irrit. 2B H320 STOT SE 3 H335

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H320 - Causes eye irritation

H335 - May cause respiratory irritation

Precautionary statements (GHS-US) : P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P264 - Wash ... thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

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

P337 + P313 - If eye irritation persists: Get medical advice/attention

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/container to ... specify in accordance with local/regional/national

regulations

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

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Name	Product identifier	%	Classification (GHS-US)
ammonium sulfate	(CAS No) 7783-20-2		Not classified
Monoammonium Phosphate	(CAS No) 7722-76-1		Eye Irrit. 2B, H320 STOT SE 3, H335
potassium chloride	(CAS No) 7447-40-7		Not classified
Anti-caking agent			Not classified
iron(III) oxide	(CAS No) 1309-37-1		Not classified
Sodium Calcium Borate	(CAS No) 1319-33-1		Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
manganese(II)oxide	(CAS No) 1344-43-0		Not classified
calcium oxide	(CAS No) 1305-78-8		Skin Corr. 1C, H314 Eye Dam. 1, H318 STOT SE 3, H335
silicon dioxide, amorphous	(CAS No) 7631-86-9		Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
zinc oxide	(CAS No) 1314-13-2		Aquatic Acute 1, H400 Aquatic Chronic 1, H410
iron(II)sulfate	(CAS No) 7720-78-7		Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315
copper(II) sulfate, pentahydrate	(CAS No) 7758-99-8		Acute Tox. 3 (Oral), H301 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
copper(II)oxide	(CAS No) 1317-38-0		Not classified
manganese(II)sulfate	(CAS No) 7785-87-7		STOT RE 2, H373
zinc sulfate	(CAS No) 7733-02-0		Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
disodium molybdate	(CAS No) 7631-95-0		Not classified

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 : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persist.

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 : Not expected to present a significant hazard under anticipated conditions of normal use.

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.

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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.

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

vapor

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

closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

iron(III) oxide (1309-37	-1)		
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³	
iron(II)sulfate (7720-78	-7)		
USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m³	
manganese(II)oxide (13	344-43-0)		
USA ACGIH	ACGIH TWA (mg/m³)	0.1 mg/m³	
manganese(II)sulfate (7785-87-7)			
USA ACGIH	ACGIH TWA (mg/m³)	0.1 mg/m³	
disodium molybdate (7631-95-0)			
USA ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m ³	
zinc oxide (1314-13-2)			
USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m³	
USA ACGIH	ACGIH STEL (mg/m³)	10 mg/m³	
calcium oxide (1305-78-8)			

8.2. Exposure controls

USA ACGIH

Personal protective equipment : Avoid all unnecessary exposure.

ACGIH TWA (mg/m3)

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2 mg/m³

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Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties 9.1.

Physical state : Solid

Multicolored granules. Appearance

Color : Multi-colored Odor Not listed

Odor threshold : No data available : No data available рΗ Relative evaporation rate (butyl acetate=1) No data available Melting point : No data available Freezing point : No data available **Boiling point** : No data available : No data available Flash point Auto-ignition temperature No data available Decomposition temperature : No data available

Flammability (solid, gas) No data available Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density : No data available

Solubility

: Water: Solubility in water of component(s) of the mixture : •: 38 g/100ml •: 34 g/100ml •: •: 23 g/100ml •: < 0.1 g/100ml •: 26 g/100ml •: •:

52 g/100ml •: 0.00029 g/100ml •: > 54 g/100ml •: 0.1 g/100ml •: 0.15 g/100ml •: 77

q/100ml

Log Pow No data available Log Kow No data available No data available Viscosity, kinematic Viscosity, dynamic : No data available : No data available Explosive properties No data available Oxidizing properties Explosive limits : 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.

Possibility of hazardous reactions

Not established.

10.4. **Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

: Not classified Acute toxicity

Monoammonium Phosphate (7722-76-1)		
LD50 oral rat	5750 mg/kg (Rat)	
LD50 dermal rat	> mg/kg	
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)	
ATE US (oral)	5750.00000000 mg/kg body weight	
potassium chloride (7447-40-7)		
LD50 oral rat	2600 mg/kg (Rat)	
ATE US (oral)	2600.00000000 mg/kg body weight	
	2000.0000000 mg ng body woight	
Sodium Calcium Borate (1319-33-1)	0000	
LD50 oral rat	2660 mg/kg	
ATE US (oral)	2660.00000000 mg/kg body weight	
copper(II)oxide (1317-38-0)		
LD50 oral rat	> 2500 mg/kg (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Experimental value)	
iron(III) oxide (1309-37-1)		
LD50 oral rat	> 5000 mg/kg (Rat; Literature study)	
iron(II)sulfate (7720-78-7)		
LD50 oral rat	319 mg/kg (Rat; Literature)	
ATE US (oral)	319.00000000 mg/kg body weight	
copper(II) sulfate, pentahydrate (7758-99-8)	200 marting (Data OFOD 404 Annata Oral Taricita Formarian actal cabon 400 marting has been included	
LD50 oral rat	300 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 482 mg/kg bodyweight; Rat)	
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Literature study; OECD 402: Acute Dermal Toxicity)	
ATE US (oral)	300.0000000 mg/kg body weight	
manganese(II)sulfate (7785-87-7)		
LD50 oral rat	2150 mg/kg (Rat; Experimental value)	
ATE US (oral)	2150.00000000 mg/kg body weight	
disodium molybdate (7631-95-0)		
LD50 oral rat	4000 mg/kg (Rat)	
LD50 dermal rat	> 2000 mg/kg (Rat)	
LC50 inhalation rat (mg/l)	> 2.1 mg/l/4h (Rat; >584 mg/l/4h; Rat)	
ATE US (oral)	4000.0000000 mg/kg body weight	
zinc oxide (1314-13-2)		
LD50 oral rat	> 5000 mg/kg (Rat; Equivalent or similar to OECD 401; Experimental value)	
LD50 dermal rabbit	> 7940 mg/kg (Rabbit; Literature study)	
LC50 inhalation rat (mg/l)	> 5.7 mg/l/4h (Rat; Experimental value)	
LC50 inhalation rat (ppm)	> 5.71 ppm/4h mouse	
zinc sulfate (7733-02-0)		
LD50 oral rat	1000 - 2000 mg/kg (Rat)	
ATE US (oral)	1000.00000000 mg/kg body weight	
silicon dioxide, amorphous (7631-86-9)		
LD50 oral rat	> 10000 mg/kg (Rat)	
LD50 dermal rabbit	> 10000 mg/kg (Rat) > 5000 mg/kg (Rabbit)	
	> 2000 Highy (Ivanoir)	
ammonium sulfate (7783-20-2)	0040 (D-1)	
LD50 oral rat	2840 mg/kg (Rat)	
LD50 dermal rat	> 2000 mg/kg	

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ammonium sulfate (7783-20-2)		
ATE US (oral)	2840.00000000 mg/kg body weight	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Causes eye irritation.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
	Based on available data, the classification criteria are not met	
Carcinogenicity	: Not classified	
iron(III) oxide (1309-37-1)		
IARC group	3 - Not classifiable	
silicon dioxide, amorphous (7631-86-9)		
IARC group	3 - Not classifiable	
Reproductive toxicity	: Not classified	
	Based on available data, the classification criteria are not met	
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.	
Consider toward arrange to violety (someone)	. Net close # od	
Specific target organ toxicity (repeated exposure)	: Not classified	
<i></i>	Based on available data, the classification criteria are not met	
Aspiration hazard	: Not classified	
	Based on available data, the classification criteria are not met	

: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

Potential Adverse human health effects and

12.1. **Toxicity**

symptoms

Monoammonium Phosphate (7722-76-1)		
LC50 fish 1	155 ppm (96 h; Pimephales promelas)	
potassium chloride (7447-40-7)		
LC50 fish 1	920 mg/l (96 h; Gambusia affinis; Static system)	
EC50 Daphnia 1	630 mg/l (48 h; Ceriodaphnia dubia)	
LC50 fish 2	2010 mg/l (96 h; Lepomis macrochirus; Static system)	
EC50 Daphnia 2	660 mg/l (48 h; Daphnia magna)	
Threshold limit algae 1	850 mg/l (72 h; Scenedesmus subspicatus)	
Threshold limit algae 2	> 100 mg/l (72 h; Scenedesmus subspicatus; GLP)	
copper(II)oxide (1317-38-0)		
LC50 fish 1	0.093 mg/l (96 h; Oncorhynchus mykiss)	
EC50 Daphnia 1	0.109 mg/l (48 h; Daphnia magna)	
Threshold limit algae 1	0.047 mg/l (96 h; Chlamydomonas reinhardtii)	
Threshold limit algae 2	0.032 mg/l (10 days; Chlamydomonas reinhardtii)	
iron(III) oxide (1309-37-1)		
LC50 fish 1	> 1000 mg/l (48 h; Leuciscus idus; Nominal concentration)	
iron(II)sulfate (7720-78-7)		
LC50 fish 1	925 mg/l (96 h; Poecilia reticulata; Heptahydrate)	
EC50 Daphnia 1	7.2 mg/l (48 h; Daphnia magna; Metal ion)	
LC50 fish 2	100 mg/l (96 h; Oryzias latipes; GLP)	
EC50 Daphnia 2	152 mg/l (48 h; Daphnia magna; Heptahydrate)	
Threshold limit algae 1	130 mg/l (72 h; Pseudokirchneriella subcapitata; Heptahydrate)	
Threshold limit algae 2	3.2 mg/l (72 h; Pseudokirchneriella subcapitata; Heptahydrate)	
copper(II) sulfate, pentahydrate (7758-99-8)		
LC50 fish 1	1.5 mg/l (24 h; Lepomis macrochirus; Toxicity test)	
EC50 Daphnia 1	0.109 - 0.798 mg/l (48 h; Daphnia magna; Anhydrous form)	

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Persistence and degradability

Persistence and degradability

Monoammonium Phosphate (7722-76-1)

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copper(II) sulfate, pentahydrate (7758-99-8)		
LC50 fish 2	0.17 mg/l (24 h; Salmo gairdneri (Oncorhynchus mykiss); Anhydrous form)	
TLM fish 1	3.8 ppm 24 h; Salmo gairdneri (Oncorhynchus mykiss)	
Threshold limit algae 1	0.01 - 0.28,72 h; Selenastrum capricornutum; Anhydrous form	
Threshold limit algae 2	0.368 mg/l (72 h; Pseudokirchneriella subcapitata; Anhydrous form)	
	0.500 mg/l (72 m, 1 3cudokiromichcha subcapitata, Armydrous form)	
manganese(II)sulfate (7785-87-7)		
LC50 fish 1	2850 mg/l (96 h; Colisa fasciatus; Manganese ion)	
EC50 Daphnia 1	8.28 mg/l (48 h; Daphnia magna)	
LC50 fish 2	33.8 mg/l (96 h; Pimephales promelas)	
EC50 Daphnia 2	10 mg/l (24 h; Daphnia magna)	
Threshold limit algae 1	25.7 mg/l (Phaeodactylum; Growth)	
Threshold limit algae 2	61 mg/l (72 h; Desmodesmus subspicatus; GLP)	
disodium molybdate (7631-95-0)		
LC50 fish 1	> 1000 mg/l (96 h; Oncorhynchus kisutch; Dihydrate)	
EC50 Daphnia 1	330 mg/l (48 h; Daphnia magna; Dihydrate)	
LC50 fish 2	7600 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
Threshold limit algae 1	4.6 mg/l (72 h; Selenastrum capricornutum; Nominal concentration)	
Threshold limit algae 2	12.5 mg/l (72 h; Scenedesmus subspicatus; Dihydrate)	
zinc oxide (1314-13-2)		
LC50 fish 1	0.59 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Zinc ion)	
EC50 Daphnia 1	0.068 mg/l (48 h; Daphnia magna; Zinc ion)	
LC50 fish 2	0.14 mg/l (96 h; Oncorhynchus mykiss)	
Threshold limit algae 1	0.136 mg/l (72 h; Pseudokirchneriella subcapitata; Zinc ion)	
Threshold limit algae 2	< 0.12 mg/l (Algae; Zinc ion)	
zinc sulfate (7733-02-0)		
LC50 fish 1	1.7 mg/l (96 h; Poecilia reticulata)	
EC50 Daphnia 1	1 mg/l (24 h; Daphnia magna)	
LC50 fish 2	2.4 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
EC50 Daphnia 2	0.56 mg/l (48 h; Daphnia magna)	
Threshold limit algae 1	136 µg/l (72 h; Selenastrum capricornutum; Growth rate)	
Threshold limit algae 2	24 μg/l (3 days; Selenastrum capricornutum; Growth rate)	
calcium oxide (1305-78-8)		
LC50 fish 1	1070 mg/l (96 h; Cyprinus carpio)	
EC50 Daphnia 1	159.6 mg/l (24 h; Crustacea)	
LC50 fish 2	240 mg/l (24 h; Gambusia affinis)	
TLM fish 1	240 ppm (24 h; Gambusia affinis)	
silicon dioxide, amorphous (7631-86-9)		
LC50 fish 1	> 10000 mg/l (96 h; Brachydanio rerio)	
EC50 Daphnia 1	> 10000 mg/l (24 h; Daphnia magna)	
Threshold limit algae 2	60 mg/l (72 h; Selenastrum capricornutum; Growth rate)	
ammonium sulfate (7783-20-2)		
LC50 fish 1	126 mg/l (96 h; Poecilia reticulata)	
EC50 Daphnia 1	202 mg/l (96 h; Daphnia magna)	
LC50 fish 2	250 - 480 mg/l (96 h; Brachydanio rerio)	
EC50 Daphnia 2	433 mg/l (50 h; Daphnia magna)	
TLM fish 1	1290 ppm (96 h; Gambusia affinis)	
12.2. Persistence and degradability		
Coastal Farm & Ranch 13-13-13 w/micros		

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Biodegradability in water: no data available. Not established.

Not established.

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potassium chloride (7447-40-7)	
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
Sodium Calcium Borate (1319-33-1)	
Persistence and degradability	Not established.
copper(II)oxide (1317-38-0)	
Persistence and degradability	Biodegradability: not applicable. Adsorbs into the soil.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
iron(III) oxide (1309-37-1)	
Persistence and degradability	Biodegradability: not applicable. Adsorbs into the soil. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
iron(II)sulfate (7720-78-7)	
Persistence and degradability	Biodegradability in water: no data available. No (test)data on mobility of the substance
	available. Not established.
manganese(II)oxide (1344-43-0)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
copper(II) sulfate, pentahydrate (7758-99-8)	
Persistence and degradability	Biodegradability: not applicable. 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
manganese(II)sulfate (7785-87-7)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available. May cause long-term adverse effects in the environment.
ThOD	Not applicable (inorganic)
disodium molybdate (7631-95-0)	
Persistence and degradability	Biodegradability: not applicable. Photolysis in water. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
zinc oxide (1314-13-2)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Low potential for adsorption in soil. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable

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zinc oxide (1314-13-2)	
BOD (% of ThOD)	Not applicable
zinc sulfate (7733-02-0)	Die de grade litter gest englische E. Net establishe d
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
calcium oxide (1305-78-8)	
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
silicon dioxide, amorphous (7631-86-9)	
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
	· · ·
ammonium sulfate (7783-20-2)	Diadagradability in water no data available. Not established
Persistence and degradability	Biodegradability in water: no data available. Not established.
Anti-caking agent	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Coastal Farm & Ranch 13-13-13 w/micros	
Bioaccumulative potential	Not established.
·	Text octabilities.
Monoammonium Phosphate (7722-76-1)	
Bioaccumulative potential	Not bioaccumulative. Not established.
potassium chloride (7447-40-7)	
Log Pow	-0.46 (Estimated value)
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
Sodium Calcium Borate (1319-33-1)	
Bioaccumulative potential	Not established.
	Not established.
iron(III) oxide (1309-37-1)	
Bioaccumulative potential	No bioaccumulation data available. Not established.
iron(II)sulfate (7720-78-7)	
BCF fish 1	2 - 20 (28 days; Cyprinus carpio; Heptahydrate)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not established.
·	
manganese(II)oxide (1344-43-0)	No biogrammulation data qualiship. Not established
Bioaccumulative potential	No bioaccumulation data available. Not established.
copper(II) sulfate, pentahydrate (7758-99-8)	
Bioaccumulative potential	Bioaccumable. Not established.
manganese(II)sulfate (7785-87-7)	
Bioaccumulative potential	No bioaccumulation data available. Not established.
,	110 2.50000
disodium molybdate (7631-95-0)	
BCF fish 1	4.9 (28 days; Oncorhynchus tshawytscha)
BCF other aquatic organisms 1	164.3 (Mollusca)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). Not established.

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zinc oxide (1314-13-2)		
Log Pow	1.53 (Estimated value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4). Not established.	
zinc sulfate (7733-02-0)		
BCF fish 1	59 - 242 (Cyprinus carpio; Test duration: 8 weeks)	
Bioaccumulative potential	Bioaccumable. Not established.	
calcium oxide (1305-78-8)		
Bioaccumulative potential	Not bioaccumulative. Not established.	
silicon dioxide, amorphous (7631-86-9)		
Bioaccumulative potential	Not bioaccumulative. Not established.	
ammonium sulfate (7783-20-2)		
Log Pow	-5.1	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.	
Anti-caking agent		
Bioaccumulative potential	Not established.	

12.4. Mobility in soil

copper(II) sulfate, pentahydrate (7758-99-8)	
Ecology - soil	Toxic to flora.

12.5. Other adverse effects

Effect on ozone layer : No additional information available

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

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

In accordance with DOT Not regulated for transport Additional information

Other information : No supplementary information available.

ADR

Transport document description

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Coastal Farm & Ranch 13-13-13 w/micros		
Not listed on the United States TSCA (Toxic Substances Control	Act) inventory	
All components of this product are listed on the Toxic Substances	Control Act (TSCA) inventory except	ot for:
Sodium Calcium Borate	CAS No 1319-33-1	0.525%
copper(II) sulfate, pentahydrate	CAS No 7758-99-8	0.10%
Anti-caking agent	CAS No	C>=0.0206%; C<=5.16%

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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.

Sodium Calcium Borate (1319-33-1)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

iron(II)sulfate (7720-78-7)

Not listed on SARA Section 313 (Specific toxic chemical listings)

RQ (Reportable quantity, section 304 of EPA's

List of Lists):

1000 lb

copper(II) sulfate, pentahydrate (7758-99-8)

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

zinc sulfate (7733-02-0)

Listed on United States SARA Section 313

RQ (Reportable quantity, section 304 of EPA's List of Lists) :

1000 lb

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. 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 and/or reproductive harm

iron(III) oxide (1309-37-1)

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

iron(II)sulfate (7720-78-7)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

zinc oxide (1314-13-2)

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

zinc sulfate (7733-02-0)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

calcium oxide (1305-78-8)

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

SECTION 16: Other information

:

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Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-phrases: see section 16:

Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H301	Toxic if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated
	exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

SDS US (GHS HazCom 2012)

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