

EXP220MP

Safety Data Sheet

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

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SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : EXP220MP
Product code : M80460

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Fertilizer

1.3. Supplier

Simplot AB Retail, Inc., DBA Simplot Turf and Horticulture
P.O. Box 9296
Boise, ID 83707

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

Acute toxicity (oral), Category 4	Harmful if swallowed.
Serious eye damage/eye irritation, Category 2	Causes serious eye irritation.
Skin corrosion/irritation, Category 2	Causes skin irritation.

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Warning

Hazard statements (GHS US) :

Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.

Precautionary statements (GHS US) :

Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Call a poison center/doctor/... if you feel unwell
If on skin: Wash with plenty of water/...
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see supplemental first aid instruction on this label)
Rinse mouth.
If skin irritation occurs: Get medical attention
If eye irritation persists: Get medical attention
Take off contaminated clothing and wash it before reuse.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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3.2. Mixtures

Name	Product identifier	%	GHS-US classification
other Non-hazardous Ingredients		<70	Not classified
glycine iron(II)	(CAS-No.) 20150-34-9	<15	Not classified
magnesium sulfate	(CAS-No.) 7487-88-9	<5	Not classified
manganese glycinate	(CAS-No.) 6912-28-3	<5	Not classified
zinc glycinate	(CAS-No.) 14281-83-5	<2	Not classified
boric acid, conc=5.4%, aqueous solution	(CAS-No.) 10043-35-3	<1	Not classified
copper glycinate	(CAS-No.) 54-40-6	<1	Not classified
sodium molybdate, dihydrate	(CAS-No.) 10102-40-6	<1	Not classified

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Specific hazards arising from the chemical

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

EXP220MP	
No additional information available	
Other Ingredients	
No additional information available	
glycine iron(II) (20150-34-9)	
No additional information available	
magnesium sulfate (7487-88-9)	
No additional information available	
manganese glycinate (6912-28-3)	
No additional information available	
zinc glycinate (14281-83-5)	
No additional information available	
boric acid, conc=5.4%, aqueous solution (10043-35-3)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	2 mg/m ³
ACGIH STEL (mg/m ³)	6 mg/m ³
copper glycinate (54-40-6)	
No additional information available	
sodium molybdate, dihydrate (10102-40-6)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH TWA (mg/m ³)	0.5 mg/m ³

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Crystals. Powder.
Colour	: Tan
Odour	: Odorless
Odour threshold	: No data available
pH	: No data available
pH solution	: ≈ 4.4
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1 – 1.2 tapped at 1.14 g/ml
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: Not applicable
Explosive properties	: No data available.
Oxidising properties	: Not oxidising.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

ATE US (oral)	500 mg/kg bodyweight
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magnesium sulfate (7487-88-9)	
LD50 oral rat	> 4000 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)

sodium molybdate, dihydrate (10102-40-6)	
LD50 oral rat	4233 mg/kg (Rat)
LD50 dermal rat	> 2000 mg/kg (Rat)

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

magnesium sulfate (7487-88-9)	
LC50 fish 1	14000 mg/l (48 h; Leuciscus idus)
EC50 Daphnia 1	1700 mg/l (24 h; Daphnia magna)
LC50 fish 2	15500 mg/l (96 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	27.4 g/l (0.5 h; Photobacterium phosphoreum)
Threshold limit algae 2	220 mg/l (72 h; Scenedesmus subspicatus; Biomass)

zinc glycinate (14281-83-5)	
LC50 fish 1	2.61 mg/l (96 h, Pimephales promelas, Zinc ion)
EC50 Daphnia 1	0.068 mg/l (48 h, Daphnia magna, Zinc ion)

boric acid, conc=5.4%, aqueous solution (10043-35-3)	
LC50 fish 1	1020 mg/l (72 h; Carassius auratus; Pure substance)
EC50 Daphnia 1	658 – 875 mg/l (48 h; Daphnia magna; Pure substance)

copper glycinate (54-40-6)	
LC50 fish 1	0.017 mg/l (96 h, Salmo gairdneri, Cu ion)

sodium molybdate, dihydrate (10102-40-6)	
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

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glycine iron(II) (20150-34-9)	
Persistence and degradability	Biodegradability in water: no data available.
magnesium sulfate (7487-88-9)	
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
manganese glycinate (6912-28-3)	
Persistence and degradability	Biodegradability in water: no data available.
boric acid, conc=5.4%, aqueous solution (10043-35-3)	
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the components available. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
copper glycinate (54-40-6)	
Persistence and degradability	Biodegradability in water: no data available.
sodium molybdate, dihydrate (10102-40-6)	
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

12.3. Bioaccumulative potential

glycine iron(II) (20150-34-9)	
Bioaccumulative potential	No bioaccumulation data available.
magnesium sulfate (7487-88-9)	
Bioaccumulative potential	No bioaccumulation data available. Not established.
manganese glycinate (6912-28-3)	
Bioaccumulative potential	No bioaccumulation data available.
boric acid, conc=5.4%, aqueous solution (10043-35-3)	
Bioaccumulative potential	No bioaccumulation data available. Not established.
sodium molybdate, dihydrate (10102-40-6)	
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.

12.4. Mobility in soil

zinc glycinate (14281-83-5)	
Ecology - soil	No (test)data on mobility of the substance available.
copper glycinate (54-40-6)	
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not applicable

Transportation of Dangerous Goods

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

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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:

Other Ingredients	CAS-No.	
glycine iron(II)	CAS-No 20150-34-9	15%
manganese glycinate	CAS-No. 6912-28-3	5%
zinc glycinate	CAS-No. 14281-83-5	2%
copper glycinate	CAS-No. 54-40-6	1%
sodium molybdate, dihydrate	CAS-No. 10102-40-6	1%

15.2. International regulations

CANADA

Other Ingredients

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

sodium molybdate, dihydrate (10102-40-6)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

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

SECTION 16: Other information

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Revision date : 04/26/2022

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.