## Safety Data Sheet

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

Date of issue: 09/20/2023 Version: 1.0

## **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture

Product name : SIMPLOT TURF HORTICULTURE 30-2-8 CUSTOM BLEND FOR BANDON CROSSING

**GOLF COURSE** 

Product code : M80548

## 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 H302 Harmful if swallowed Skin corrosion/irritation Category 2 H315 Causes skin irritation Serious eye damage/eye irritation Category 2 H319 Causes serious eye irritation

Carcinogenicity Category 1A

Specific target organ toxicity (single exposure) Category 3 H335 May cause respiratory irritation

Specific target organ toxicity (repeated exposure) Category 2 H373 May cause damage to organs through prolonged or repeated exposure

Full text of H statements : see section 16

## 2.2. GHS Label elements, including precautionary statements

## **GHS US labeling**

Hazard pictograms (GHS US)





H350 May cause cancer

Signal word (GHS US) : Danger

Hazard statements (GHS US) : H302 - Harmful if swallowed H315 - Causes skin irritation

> H319 - Causes serious eye irritation H335 - May cause respiratory irritation

H350 - May cause cancer

H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell

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

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a poison center or doctor if you feel unwell

09/20/2023 EN (English US) Page 1

## Safety Data Sheet

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

P314 - Get medical advice/attention if you feel unwell.

P321 - Specific treatment (see supplemental first aid instruction on this label)

P330 - Rinse mouth.

P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/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 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

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
urea (57-13-6)	(CAS-No.) 57-13-6	38.775 – 44.65	Eye Irrit. 2B, H320
formaldehyde/urea,resins	(CAS-No.) 9011-05-6	≤ 20.2	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
Iron Sucrate	(CAS-No.) 8047-67-4	0.8 – 5.2	Acute Tox. 3 (Oral), H301 Carc. 2, H351
Monoammonium Phosphate	(CAS-No.) 7722-76-1	3.85	Eye Irrit. 2B, H320 STOT SE 3, H335
manganese(II)sulfate	(CAS-No.) 7785-87-7	1.6	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
Simplot Grower Solutions Sulfur Granular	(CAS-No.) 7704-34-9	0.47 – 1.175	Skin Irrit. 2, H315 Eye Irrit. 2B, H320
quartz	(CAS-No.) 14808-60-7	< 0.1224	Eye Irrit. 2B, H320 Carc. 1A, H350 STOT SE 3, H335 STOT RE 2, H373

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/doctor/physician 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 : Toxic fumes may be released.

fire

09/20/2023 EN (English US) 2/9

## Safety Data Sheet

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

## 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.

#### 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

SIMPLOT TURF HORTICULTURE 30-2-8 C	CUSTOM BLEND FOR BANDON CROSSING GOLF COURSE
No additional information available	
Monoammonium Phosphate (7722-76-1)	
No additional information available	
urea (57-13-6) (57-13-6)	
No additional information available	
Simplot Grower Solutions Sulfur Granula	r (7704-34-9)
USA - ACGIH - Occupational Exposure Li	mits
ACGIH TWA (mg/m³)	3 mg/m³
formaldehyde/urea,resins (9011-05-6)	
No additional information available	
manganese(II)sulfate (7785-87-7)	
USA - ACGIH - Occupational Exposure Li	mits
ACGIH TWA (mg/m³)	0.1 mg/m³
quartz (14808-60-7)	
USA - ACGIH - Occupational Exposure Li	mits
Local name	Silica crystaline - quartz
ACGIH TWA (mg/m³)	0.025 R
Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2019

09/20/2023 EN (English US) 3/9

## Safety Data Sheet

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

USA - OSHA - Occupational Exposure Limits		
Local name	Quartz (Respirable) (Silica: Crystalline)	
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA): Use formulas: (250 / (%SiO2+5)) for mppcf and (10 mg/m3 / (%SiO2+2)) for mg/m3. CAS No. source: eCFR Table Z-1.	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts	
Iron Sucrate (8047-67-4)		
No additional information available		

### **Appropriate engineering controls**

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

## 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):



## **SECTION 9: Physical and chemical properties**

9.1.	Information o	n basic phy	vsical and c	hemical pro	pperties

Physical state Color : Mixture contains one or more component(s) which have the following colour(s): Colorless Colourless-white Unpurified: grey-brown Colourless to white Commercial substance: grey-green White Colourless Pure substance: light yellow Unpurified: yellow to brown Colourless or white Pure substance: colourless to white Unpurified: grey-blue or red Black Odor There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Odourless Mild odour Petroleum-like odour In moist air: Ammonia odour Pure substance is odourless Commercial/unpurified substance: Unpleasant odour Odor threshold : No data available рΗ No data available

Melting point No data available Freezing point : Not applicable Boiling point No data available Flash point : Not applicable Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) Non flammable. Vapor pressure : No data available Relative vapor density at 20 °C No data available Relative density : No data available

09/20/2023 EN (English US)

## Safety Data Sheet

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

Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : Not applicable Decomposition temperature : No data available : No data available Viscosity, kinematic Viscosity, dynamic : No data available **Explosion limits** : Not applicable Explosive properties : No data available Oxidizing properties : No data available

## 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

1601.372 mg/kg body weight			
Monoammonium Phosphate (7722-76-1)			
5750 mg/kg (Rat)			
> 7940 mg/kg (Rabbit)			
8471 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 14300 mg/kg bodyweight; Rat; Experimental value)			
> 3200 mg/kg (Rat; Literature study)			
> 21000 mg/kg (Rabbit; Literature study)			
Simplot Grower Solutions Sulfur Granular (7704-34-9)			
> 5000 mg/kg (Rat)			
> 2000 mg/kg (Rabbit)			
> 9.23 mg/l/4h (Rat)			
formaldehyde/urea,resins (9011-05-6)			
8394 mg/kg (Rat)			
> 2100 mg/kg (Rat)			
manganese(II)sulfate (7785-87-7)			
2150 mg/kg (Rat; Experimental value)			

09/20/2023 EN (English US) 5/9

## Safety Data Sheet

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

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer.

quartz (14808-60-7)		
IARC group	1 - Carcinogenic to humans	
Iron Sucrate (8047-67-4)		
IARC group	3 - Not classifiable	

Reproductive toxicity : Not classified

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

Monoammonium Phosphate (7722-76-1)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

formaldehyde/urea,resins (9011-05-6)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.
august (4.4000 CO 7)	

quartz (14808-60-7)	
Specific target organ toxicity – single exposure	May cause respiratory irritation.

Specific target organ toxicity – repeated : May cause damage to organs through prolonged or repeated exposure.

manganese(II)sulfate (7785-87-7)	
Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.
quartz (14808-60-7)	
Specific target organ toxicity – repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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 or to cause long-term adverse effects in the environment.

Monoammonium Phosphate (7722-76-1)		
LC50 fish 1	155 ppm (96 h; Pimephales promelas)	
urea (57-13-6) (57-13-6)		
LC50 fish 1	> 6810 mg/l (96 h; Leuciscus idus; Nominal concentration)	
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna; Nominal concentration)	
LC50 fish 2	17500 mg/l (96 h; Poecilia reticulata)	
EC50 Daphnia 2	> 10000 mg/l (24 h; Daphnia magna)	
TLM fish 1	17500 ppm (96 h; Poecilia reticulata)	
Threshold limit other aquatic organisms 1	120000 mg/l (16 h; Bacteria; Toxicity test)	
Threshold limit other aquatic organisms 2	> 10000 mg/l (Pseudomonas putida)	
Threshold limit algae 1	> 10000 mg/l (168 h; Scenedesmus quadricauda; Growth rate)	
Threshold limit algae 2	47 mg/l (192 h; Microcystis aeruginosa; Growth rate)	

09/20/2023 EN (English US) 6/9

## Safety Data Sheet

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

Simplot Grower Solutions Sulfur Granular (7704-34-9)		
LC50 fish 1	866 mg/l (96 h; Brachydanio rerio)	
LC50 fish 2	> 100 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)	
TLM fish 1	10000 ppm (96 h; Gambusia affinis)	
Threshold limit other aquatic organisms 1	> 10000 mg/l (24 h; Daphnia magna)	
formaldehyde/urea,resins (9011-05-6)		
LC50 fish 1	> 500 mg/l (96 h; Leuciscus idus; Estimated value)	
EC50 Daphnia 1	65000 mg/l (Daphnia magna; QSAR)	
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)	

## 12.2. Persistence and degradability

Monoammonium Phosphate (7722-76-1)		
Persistence and degradability	Biodegradability in water: no data available. Not established.	
urea (57-13-6) (57-13-6)		
Persistence and degradability	Inherently biodegradable. Hydrolysis in water. Not established.	
ThOD	0.27 g O₂/g substance	
Simplot Grower Solutions Sulfur Granular (7704-34-9)		
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	
formaldehyde/urea,resins (9011-05-6)		
Persistence and degradability	Not readily biodegradable in water. Not established.	
manganese(II)sulfate (7785-87-7)	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)	
quartz (14808-60-7)		
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	
Iron Sucrate (8047-67-4)		
Persistence and degradability	Not established.	

## 12.3. Bioaccumulative potential

Monoammonium Phosphate (7722-76-1)		
Bioaccumulative potential	Not bioaccumulative. Not established.	
urea (57-13-6) (57-13-6)		
BCF fish 1	1 (72 h; Brachydanio rerio; Fresh water)	
BCF other aquatic organisms 1	11700 (Chlorella sp.)	
Partition coefficient n-octanol/water (Log Pow)	< -1.73 (Experimental value; EU Method A.8: Partition Coefficient)	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.	

09/20/2023 EN (English US) 7/9

## Safety Data Sheet

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

Simplot Grower Solutions Sulfur Granular (7704-34-9)		
Partition coefficient n-octanol/water (Log Pow)	0.23 (Estimated value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4). Not established.	
formaldehyde/urea,resins (9011-05-6)		
Bioaccumulative potential	No bioaccumulation data available. Not established.	
manganese(II)sulfate (7785-87-7)		
Bioaccumulative potential	No bioaccumulation data available. Not established.	
quartz (14808-60-7)		
Partition coefficient n-octanol/water (Log Pow)	Not applicable	
Bioaccumulative potential	No bioaccumulation data available. Not established.	
Iron Sucrate (8047-67-4)		
Bioaccumulative potential	Not established.	

#### 12.4. Mobility in soil

Simplot Grower Solutions Sulfur Granular (7704-34-9)	
Ecology - soil	Not toxic to bees.

#### 12.5. Other adverse effects

No additional information available

## **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

## SIMPLOT TURF HORTICULTURE 30-2-8 CUSTOM BLEND FOR BANDON CROSSING GOLF COURSE

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:

Iron Sucrate	CAS-No. 8047-67-4	0.8 – 5.2%
formaldehyde/urea,resins (9011-05-6)		
EPA Labeling Requirements	XU - XU - indicates a substance exempt from repo Rule, (40 CFR 711).	rting under the Chemical Data Reporting

09/20/2023 EN (English US) 8/9

## Safety Data Sheet

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

## 15.2. International regulations

#### **CANADA**

#### Monoammonium Phosphate (7722-76-1)

Listed on the Canadian DSL (Domestic Substances List)

## urea (57-13-6) (57-13-6)

Listed on the Canadian DSL (Domestic Substances List)

## Simplot Grower Solutions Sulfur Granular (7704-34-9)

Listed on the Canadian DSL (Domestic Substances List)

#### formaldehyde/urea, resins (9011-05-6)

Listed on the Canadian DSL (Domestic Substances List)

#### manganese(II)sulfate (7785-87-7)

Listed on the Canadian DSL (Domestic Substances List)

## quartz (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

## Iron Sucrate (8047-67-4)

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

#### **EU-Regulations**

No additional information available

**National regulations** 

#### quartz (14808-60-7)

Listed on IARC (International Agency for Research on Cancer)

#### 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

Component	State or local regulations
Simplot Grower Solutions Sulfur Granular(7704-34-9)	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
quartz(14808-60-7)	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

## **SECTION 16: Other information**

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

## Full text of H-phrases:

•	
H301	Toxic if swallowed
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation
H350	May cause cancer
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure

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.

09/20/2023 EN (English US) 9/9