

# Simplot Turf & Horticulture 19-4-3 with Organics

## Safety Data Sheet

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

Revision date: 05/14/2024 Version: 1.2

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Simplot Turf & Horticulture 19-4-3 with Organics

#### 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  
Serious eye damage/eye irritation Category 2 H319 Causes serious eye irritation  
Carcinogenicity Category 1A H350 May cause cancer

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H302 - Harmful if swallowed  
H319 - Causes serious eye irritation  
H350 - May cause cancer

Precautionary statements (GHS US) :

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell  
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.  
P330 - Rinse mouth.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
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

# Simplot Turf & Horticulture 19-4-3 with Organics

## Safety Data Sheet

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

### 3.2. Mixtures

| Name                   | Product identifier   | %         | GHS US classification   |
|------------------------|----------------------|-----------|---|
| urea (57-13-6)         | (CAS-No.) 57-13-6    | 10-30     | Eye Irrit. 2B, H320   |
| Iron Sucrate           | (CAS-No.) 8047-67-4  | .6-5.2    | Acute Tox. 3 (Oral), H301<br>Carc. 1A, H350                                 |
| Monoammonium Phosphate | (CAS-No.) 7722-76-1  | 0-15      | Eye Irrit. 2B, H320<br>STOT SE 3, H335                                      |
| quartz                 | (CAS-No.) 14808-60-7 | < 0.14994 | Eye Irrit. 2B, H320<br>Carc. 1A, H350<br>STOT SE 3, H335<br>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 general : IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.
- 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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

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

- Symptoms/effects after eye contact : Eye irritation.

### 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 : Only qualified personnel equipped with suitable protective equipment may intervene.

#### 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. Notify authorities if product enters sewers or public waters.

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

- Methods for cleaning up : Mechanically recover the product. Notify authorities if product enters sewers or public waters.
- 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.

# Simplot Turf & Horticulture 19-4-3 with Organics

## Safety Data Sheet

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

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes.
- Hygiene measures : Separate working clothes from town clothes. Launder separately. 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 locked up. Store in a well-ventilated place. Keep cool.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

|   |   |
|---|---|
| <b>Simplot Turf &amp; Horticulture 19-4-3 with Organics</b> |   |
| No additional information available                         |   |
| <b>urea (57-13-6) (57-13-6)</b>                             |   |
| No additional information available                         |   |
| <b>Monoammonium Phosphate (7722-76-1)</b>                   |   |
| No additional information available                         |   |
| <b>quartz (14808-60-7)</b>                                  |   |
| <b>USA - ACGIH - Occupational Exposure Limits</b>           |   |
| Local name  | Silica crystalline - quartz   |
| ACGIH TWA (mg/m <sup>3</sup> )                              | 0.025 R   |
| Remark (ACGIH)  | TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)  |
| Regulatory reference  | ACGIH 2019  |
| <b>USA - OSHA - Occupational Exposure Limits</b>            |   |
| Local name  | Quartz (Respirable) (Silica: Crystalline)   |
| Remark (OSHA)   | Table Z-3. For OSHA PEL (TWA): Use formulas: (250 / (%SiO <sub>2</sub> +5)) for mppcf and (10 mg/m <sup>3</sup> / (%SiO <sub>2</sub> +2)) for mg/m <sup>3</sup> . CAS No. source: eCFR Table Z-1. |
| Regulatory reference (US-OSHA)                              | OSHA Annotated Table Z-3 Mineral Dusts  |
| <b>Iron Sucrate (8047-67-4)</b>                             |   |
| No additional information available                         |   |

#### 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:

Wear respiratory protection.

**Personal protective equipment symbol(s):**

# Simplot Turf & Horticulture 19-4-3 with Organics

## Safety Data Sheet

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



### SECTION 9: Physical and chemical properties

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

|   |   |
|---|---|
| Physical state                                  | : Solid   |
| Color   | : Mixture contains one or more component(s) which have the following colour(s):<br>Colorless Colourless to white Commercial substance: grey-green White Pale yellow Pure<br>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<br>overexposure.<br>Mixture contains one or more component(s) which have the following odour:<br>Odourless In moist air: Ammonia odour              |
| Odor threshold                                  | : No data available   |
| pH  | : 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   |
| Solubility                                      | : No data available   |
| 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   |
| 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.

# Simplot Turf & Horticulture 19-4-3 with Organics

## Safety Data Sheet

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

### 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) | 1537.279 mg/kg body weight |
|---------------|----------------------------|

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

|                    |  |
|--------------------|--|
| LD50 oral rat      | 8471 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 14300 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rat    | > 3200 mg/kg (Rat; Literature study)   |
| LD50 dermal rabbit | > 21000 mg/kg (Rabbit; Literature study)   |

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

|                    |                       |
|--------------------|-----------------------|
| LD50 oral rat      | 5750 mg/kg (Rat)      |
| LD50 dermal rabbit | > 7940 mg/kg (Rabbit) |

Skin corrosion/irritation : Not classified  
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 : Not classified

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

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

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

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

Specific target organ toxicity – repeated exposure : Not classified

#### 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  
Symptoms/effects after eye contact : Eye irritation.

### 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.

|                                 |   |
|---------------------------------|---|
| <b>urea (57-13-6) (57-13-6)</b> |   |
| 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)                     |

# Simplot Turf & Horticulture 19-4-3 with Organics

## Safety Data Sheet

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

| <b>urea (57-13-6) (57-13-6)</b>           |  |
|---|--|
| 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)       |
| <b>Monoammonium Phosphate (7722-76-1)</b> |  |
| LC50 fish 1                               | 155 ppm (96 h; Pimephales promelas)                        |

### 12.2. Persistence and degradability

| <b>urea (57-13-6) (57-13-6)</b>           |   |
|---|---|
| Persistence and degradability             | Inherently biodegradable. Hydrolysis in water. Not established. |
| ThOD                                      | 0.27 g O <sub>2</sub> /g substance                              |
| <b>Monoammonium Phosphate (7722-76-1)</b> |   |
| Persistence and degradability             | Biodegradability in water: no data available. Not established.  |
| <b>quartz (14808-60-7)</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>Iron Sucrate (8047-67-4)</b>           |   |
| Persistence and degradability             | Not established.  |

### 12.3. Bioaccumulative potential

| <b>urea (57-13-6) (57-13-6)</b>                 |  |
|---|--|
| 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.                  |
| <b>Monoammonium Phosphate (7722-76-1)</b>       |  |
| Bioaccumulative potential                       | Not bioaccumulative. Not established.                              |
| <b>quartz (14808-60-7)</b>                      |  |
| Partition coefficient n-octanol/water (Log Pow) | Not applicable   |
| Bioaccumulative potential                       | No bioaccumulation data available. Not established.                |
| <b>Iron Sucrate (8047-67-4)</b>                 |  |
| Bioaccumulative potential                       | Not established.   |

### 12.4. Mobility in soil

No additional information available

### 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

# Simplot Turf & Horticulture 19-4-3 with Organics

## Safety Data Sheet

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

### 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 19-4-3 with Organics

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 | .6-5.2% |
|--------------|-------------------|---------|

### 15.2. International regulations

#### CANADA

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

Listed on the Canadian DSL (Domestic Substances List)

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

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  |
|--------------------|---|
| 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

Revision date : 05/14/2024

# Simplot Turf & Horticulture 19-4-3 with Organics

## Safety Data Sheet

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  |
| 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.*