



# Best Super Turf 25-5-5 with GAL-Xe ONE

## Safety Data Sheet

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

Date of issue: 04/27/2021

Version: 1.1

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Best Super Turf 25-5-5 with GAL-Xe ONE  
Product code : M75033

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Fertilizer

#### 1.3. Supplier

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

Serious eye damage/eye irritation, Category 2 H319 Causes serious eye irritation.  
Full text of H statements : see section 16

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

##### GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H319 - Causes serious eye irritation.

Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical attention

#### 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   | 20-40 | Eye Irrit. 2B, H320                    |
| Monoammonium Phosphate | (CAS-No.) 7722-76-1 | 1-10  | Eye Irrit. 2B, H320<br>STOT SE 3, H335 |
| Iron Oxsulfate         |                     | <2    | Eye Irrit. 2B, H320                    |

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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            | : 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 person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. 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. Wash skin with plenty of water.  |
| 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. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison center or a doctor if you feel unwell.  |

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

- |   |   |
|---|---|
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/effects after eye contact                  | : Causes eye irritation. 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   | : Carbon dioxide. Sand. Water spray. Dry powder. Foam. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.                     |

#### 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

- |                                |  |
|--------------------------------|--|
| Firefighting instructions      | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.  |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. 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. Evacuate unnecessary personnel. Avoid contact with skin and eyes. |
|----------------------|--|

##### 6.1.2. For emergency responders

- |                      |  |
|----------------------|--|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Ventilate area.  |

#### 6.2. Environmental precautions

Avoid release to the environment. 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 | : Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away from other materials. |
| Other information       | : Dispose of materials or solid residues at an authorized site.  |

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- |                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Ensure good ventilation of the work station. 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 contact with skin and eyes. 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     | : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use. Store in a well-ventilated place. Keep cool. |
| Incompatible products  | : Strong bases. Strong acids.  |
| Incompatible materials | : Sources of ignition. Direct sunlight.  |

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

|   |
|---|
| <b>Best Super Turf 25-5-5 with GAL-Xe ONE</b> |
| No additional information available           |
| <b>Monoammonium Phosphate (7722-76-1)</b>     |
| No additional information available           |
| <b>Iron Oxysulfate</b>                        |
| No additional information available           |
| <b>urea (57-13-6) (57-13-6)</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

##### Personal protective equipment:

Avoid all unnecessary exposure.

##### Hand protection:

Wear protective gloves.

##### Eye protection:

Chemical goggles or safety glasses. Safety glasses

##### Skin and body protection:

Wear suitable protective clothing

##### Respiratory protection:

Wear appropriate mask

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



##### Other information:

Do not eat, drink or smoke during use.

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### SECTION 9: Physical and chemical properties

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

|   |   |
|---|---|
| Physical state                                  | : Solid   |
| Appearance                                      | : Green and grey granules.  |
| Colour  | : Green Gray  |
| Odour   | : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.<br>Mixture contains one or more component(s) which have the following odour:<br>Odourless In moist air: Ammonia odour |
| Odour 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 (butylacetate=1)      | : No data available   |
| Flammability (solid, gas)                       | : Non flammable.  |
| Vapour pressure                                 | : No data available   |
| Relative vapour density at 20 °C                | : No data available   |
| Relative density                                | : Not applicable  |
| Solubility                                      | : Soluble and slowly soluble. Polymer coating insoluble.  |
| 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                            | : 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.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Extremely high temperatures. Direct sunlight.

#### 10.5. Incompatible materials

Oxidizing agent. Prolonged contact may cause oxidation of unprotected metals. Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

The product may reach melting point and decompose to release NH<sub>3</sub>, SO<sub>x</sub>, PO<sub>x</sub>, or CN. fume. Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

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| Monoammonium Phosphate (7722-76-1) |  |
|------------------------------------|--|
| LD50 oral rat                      | 5750 mg/kg (Rat)   |
| LD50 dermal rabbit                 | > 7940 mg/kg (Rabbit)  |
| 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)   |
| Skin corrosion/irritation          | : Not classified   |
| 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

| Monoammonium Phosphate (7722-76-1)                  |   |
|---|---|
| STOT-single exposure                                | May cause respiratory irritation.                                   |
| STOT-repeated exposure                              | : Not classified  |
| Aspiration hazard                                   | : Not classified  |
| Viscosity, kinematic                                | : No data available   |
| Potential adverse human health effects and symptoms | : Based on available data, the classification criteria are not met. |
| Symptoms/effects after eye contact                  | : Causes eye irritation. Eye irritation.                            |

## 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.

| 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)       |

### 12.2. Persistence and degradability

| Best Super Turf 25-5-5 with GAL-Xe ONE |  |
|--|--|
| Persistence and degradability          | Not established.   |
| Monoammonium Phosphate (7722-76-1)     |  |
| Persistence and degradability          | Biodegradability in water: no data available. Not established. |
| Iron Oxsulfate                         |  |
| Persistence and degradability          | Not established.   |

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| urea (57-13-6) (57-13-6)      |   |
|-------------------------------|---|
| Persistence and degradability | Inherently biodegradable. Hydrolysis in water. Not established. |
| ThOD                          | 0.27 g O <sub>2</sub> /g substance                              |

### 12.3. Bioaccumulative potential

| Best Super Turf 25-5-5 with GAL-Xe ONE          |  |
|---|--|
| Bioaccumulative potential                       | Not established.   |
| Monoammonium Phosphate (7722-76-1)              |  |
| Bioaccumulative potential                       | Not bioaccumulative. Not established.                              |
| Iron Oxsulfate                                  |  |
| Bioaccumulative potential                       | 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.                  |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid unintentional release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecology - waste materials : Avoid unintentional release to the environment.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

Other information : No supplementary information available.

### Transportation of Dangerous Goods

### Transport by sea

### Air transport

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| Best Super Turf 25-5-5 with GAL-Xe ONE  |         |     |
|---|---------|-----|
| Not listed on the United States TSCA (Toxic Substances Control Act) inventory   |         |     |
| 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 Oxsulfate  | CAS-No. | <2% |

### 15.2. International regulations

#### CANADA

| Monoammonium Phosphate (7722-76-1)                    |  |
|---|--|
| Listed on the Canadian DSL (Domestic Substances List) |  |

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

Listed on the Canadian DSL (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

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

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling 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-statements:

|      |                                   |
|------|-----------------------------------|
| H319 | Causes serious eye irritation.    |
| H320 | Causes eye irritation             |
| H335 | May cause respiratory irritation. |

SDS US (GHS HazCom 2012)

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