



BEST Turf Supreme Mini 16-6-8 with Trimec

Safety Data Sheet

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

Date of issue: 07/08/2024 Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : BEST Turf Supreme Mini 16-6-8 with Trimec
Product code : 96031

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Fertilizer and Herbicide

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

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

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
Monoammonium Phosphate	(CAS-No.) 7722-76-1	5-15	Eye Irrit. 2B, H320 STOT SE 3, H335
urea (57-13-6)	(CAS-No.) 57-13-6	1-10	Eye Irrit. 2B, H320
Iron Sucrate	(CAS-No.) 8047-67-4	.2-5	Acute Tox. 3 (Oral), H301 Carc. 2, H351
2,4-dichlorophenoxyacetic acid	(CAS-No.) 94-75-7	.5-1.5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412

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.

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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 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.

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

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No additional information available
urea (57-13-6) (57-13-6)
No additional information available
Monoammonium Phosphate (7722-76-1)
No additional information available
Iron Sucrate (8047-67-4)
No additional information available
2,4-dichlorophenoxyacetic acid (94-75-7)
No additional information available

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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):



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):
Colourless-white Unpurified: grey-brown Colourless to white Commercial substance: grey-green Pure substance: colourless to white Unpurified: grey-blue or red Colorless Black Unpurified: white to yellow-brown Commercial substance: light yellow to brown
- 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 In moist air: Ammonia odour Pure substance is odourless Commercial/unpurified substance: Phenol 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

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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) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

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)

2,4-dichlorophenoxyacetic acid (94-75-7)	
LD50 oral rat	630-774,Rat; Other; Experimental value; 375 mg/kg; Rat
LD50 dermal rabbit	> 2000 mg/kg (Rabbit; Experimental value; Other)

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Iron Sucrate (8047-67-4)	
IARC group	3 - Not classifiable

2,4-dichlorophenoxyacetic acid (94-75-7)	
IARC group	2B - Possibly carcinogenic to humans

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.

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2,4-dichlorophenoxyacetic acid (94-75-7)

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

Specific target organ toxicity – 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 or to cause long-term adverse effects in the environment.

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)

Monoammonium Phosphate (7722-76-1)

LC50 fish 1 155 ppm (96 h; *Pimephales promelas*)

2,4-dichlorophenoxyacetic acid (94-75-7)

LC50 fish 1 31 – 96 mg/l (96 h; *Cyprinus carpio*)

EC50 Daphnia 1 90 mg/l (48 h; *Daphnia magna*)

LC50 fish 2 82 mg/l 96 h; *Salmo gairdneri* (*Oncorhynchus mykiss*)

TLM fish 1 375 mg/l (48 h; *Lepomis macrochirus*)

Threshold limit algae 1 < 0.1 mg/l (*Scenedesmus quadricauda*; Chronic)

Threshold limit algae 2 26.4 mg/l (120 h; *Selenastrum capricornutum*; Growth rate)

12.2. Persistence and degradability

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

Persistence and degradability Inherently biodegradable. Hydrolysis in water. Not established.

ThOD 0.27 g O₂/g substance

Monoammonium Phosphate (7722-76-1)

Persistence and degradability Biodegradability in water: no data available. Not established.

Iron Sucrate (8047-67-4)

Persistence and degradability Not established.

2,4-dichlorophenoxyacetic acid (94-75-7)

Persistence and degradability Readily biodegradable in water. Inhibition of nitrification. Biodegradable in the soil. No (test) data on mobility of the substance available. May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

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.

Monoammonium Phosphate (7722-76-1)

Bioaccumulative potential Not bioaccumulative. Not established.

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Iron Sucrate (8047-67-4)	
Bioaccumulative potential	Not established.
2,4-dichlorophenoxyacetic acid (94-75-7)	
BCF fish 1	< 10 (3 days; Leuciscus idus)
BCF other aquatic organisms 1	6 (24 h; Algae)
Partition coefficient n-octanol/water (Log Pow)	2.58 – 2.83 (Experimental value; OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500). 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

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:

Iron Sucrate	CAS-No. 8047-67-4	.2-5%
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Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

2,4-dichlorophenoxyacetic acid	CAS-No. 94-75-7	.5-1.5%
dicamba	CAS-No. 1918-00-9	0-.5%

2,4-dichlorophenoxyacetic acid (94-75-7)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	100 lb
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15.2. International regulations

CANADA

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

Listed on the Canadian DSL (Domestic Substances List)

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Monoammonium Phosphate (7722-76-1)

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)

2,4-dichlorophenoxyacetic acid (94-75-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

2,4-dichlorophenoxyacetic acid (94-75-7)

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
2,4-dichlorophenoxyacetic acid(94-75-7)	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

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Full text of H-phrases:

H301	Toxic if swallowed
H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H320	Causes eye irritation
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H412	Harmful to aquatic life with long lasting effects

SDS US (GHS HazCom 2012)

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