

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Issue date: 03/31/2022 Revision date: 03/31/2022 Version: 1.0

SECTION 1: Identification

Product Identifer Turf Titan Lawn Commander

Recommended use Enhanced plant growth and vigor, increased soil health

Recommended restrictions None known.

Manufacturer Information BW Fusion

3850 Concept Court, Suite 101 Fort Wayne, IN 46808 – USA Phone : 888-970-0955

Emergency telephone number 1-800-424-9300 (CHEMTREC)

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS US classification Eye Irrit. 2A
GHS Label elements, including precautionary statements
GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US) Warning

Hazard statements (GHS US)

Causes serious eye irritation

Precautionary statements (GHS US) Wash hands, forearms and face thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: 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.

Other hazards which do not result in classification

No additional information available

Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

Mixture

Name	Product identifier	%
Ammonium nitrate	(CAS-No.) 6484-52-2	17 – 27
Urea	(CAS-No.) 57-13-6	15 – 25

^{*}Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing. Get medical advice/attention if you feel unwell.

Skin Contact If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation

persists.

Eye Contact IF IN EYES: 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.

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Ingestion Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Get medical advice/attention if you feel unwell.

Most important symptoms and effects (acute and delayed)

Symptoms/effects after Inhalation May cause irritation to the respiratory tract.

Symptoms/effects after Skin Contact May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after Eye Contact Causes eye irritation. Symptoms may include discomfort or pain, excess blinking and tear

production, with possible redness and swelling.

Symptoms/effects after ingestion May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and

diarrhea.

Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media Water. Foam. Carbon dioxide. Dry chemical.

Unsuitable extinguishing media Do not use water jet.

Specific hazards arising from the chemical

Fire hazard Products of combustion may include, and are not limited to: oxides of carbon. irritating vapors.

Gaseous ammonia. Metal oxides. Oxides of phosphorus. Oxides of nitrogen. Oxides of sulfur.

Potassium oxides.

Special protective equipment and precautions for fire-fighters

Protection during firefighting Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA). Cool closed containers exposed to fire with water.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures Use personal protection recommended in Section 8. Isolate the hazard area and deny entry

to unnecessary and unprotected personnel.

For non-emergency personnel No additional information available

For emergency responders No additional information available

Environmental precautions Prevent entry to sewers and public waters

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Methods and material for containment and cleaning up

For containment Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material),

then place in suitable container. Do not flush into surface water or sewer system. Wear

recommended personal protective equipment.

Methods for cleaning up Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

Reference to other sections For further information refer to section 8: "Exposure controls/personal protection

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SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not

swallow. Handle and open container with care. When using do not eat, drink or smoke. Use

only outdoors or in a well-ventilated area.

Hygiene measures Wash contaminated clothing before reuse. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

Storage conditions Keep out of the reach of children. Store tightly closed in a dry, cool and well-ventilated place.

Storage temperature 50 – 90 °F

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SECTION 8: Exposure controls/personal protection

Control parameters

Physical state

Flammability (solid, gas)

Vapor pressure

Turf Titan Lawn Commander	
No additional information available	
Ammonium nitrate (6484-52-2)	
No additional information available	
Urea (57-13-6)	
No additional information available	

Appropriate engineering controls

Appropriate engineering controls Ensure good ventilation of the work station. Provide readily accessible eye wash stations and

safety showers.

Liquid

No data available

No data available

Individual protection measures/Personal protective equipment

Hand protection: Wear suitable gloves

Eye protection: Wear eye/face protection

Skin and body protection:Wear suitable protective clothing

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must

be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

Other information: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or

smoke when using this product.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance Clear to hazy Color Light green Odor No data available Odor threshold No data available 4.5 - 5.5pΗ Melting point < 0 °C (32 F) Freezing point < 0 °C (32 F) Boiling point > 100 °C (212 F) Does not flash Flash point Relative evaporation rate (butyl acetate=1) No data available

Relative vapor density at 20 °C No data available Relative density $1.2-1.4 \ (20 \ ^{\circ}\text{C} \ / \ 68 \ ^{\circ}\text{F})$

Density ≈ 10.68 Solubility Soluble.

Partition coefficient n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity, kinematic

Viscosity, dynamic

Explosion limits

No data available

No data available

No data available

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Explosive properties No data available
Oxidizing properties No data available

Other information No additional information available

SECTION 10: Stability and reactivity

Reactivity

No dangerous reactions known under normal conditions of use.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

Conditions to avoid

Heat. Incompatible materials.

Incompatible materials

Oxidizing materials. reducing agents. Caustics. Strong alkalis.

Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Gaseous ammonia. Metal oxides. Oxides of phosphorus. Oxides of nitrogen.

	SECTION 11: Toxicological information	
nformation on toxicological effects		
Acute toxicity (oral)	Not classified	
Acute toxicity (dermal)	Not classified	
Acute toxicity (inhalation)	Not classified	
Ammonium nitrate (6484-52-2)		
LD50 oral rat	2217 mg/kg	
LD50 dermal rat	> 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LC50 inhalation rat ATE US (oral)	> 88.8 mg/l/4h 2217 mg/kg body weight	
Urea (57-13-6)	2217 Hig/kg body weight	
LD50 oral rat	8471 mg/kg	
ATE US (oral)	8471 mg/kg body weight	
Skin corrosion/irritation	Not classified	
	pH: 4.5 – 5.5	
Serious eye damage/irritation	Causes serious eye irritation.	
	pH: 4.5 – 5.5	
Respiratory or skin sensitization	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	
Symptoms/effects after inhalation	May cause irritation to the respiratory tract.	
Symptoms/effects after skin contact	May cause skin irritation. Repeated exposure may cause skin dryness or cracking.	
Symptoms/effects after eye contact	Causes eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.	
Symptoms/effects after ingestion	May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.	
Other information	Likely routes of exposure: ingestion, inhalation, skin and eye.	
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	SECTION 12: Ecological information	
Toxicity		
Ecology - general	May cause long-term adverse effects in the aquatic environment.	
Ammonium nitrate (6484-52-2)		
EC50 - Crustacea [1]	490 mg/l Test organisms (species): Daphnia magna	
Urea (57-13-6)		
LC50 - Fish [1]	16200 – 18300 mg/l (Exposure time: 96 h - Species: Poecilia reticulata)	
EC50 - Crustacea [1]	3910 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
Persistence and degradability		
Turf Titan Lawn Commander		
Persistence and degradability	Not established.	
Bioaccumulative potential		
Turf Titan Lawn Commander		
Bioaccumulative potential	Not established.	
Ammonium nitrate (6484-52-2)		
BCF - Fish [1]	(no bioaccumulation expected)	
Partition coefficient n-octanol/water	-3.1 (at 25 °C)	
Urea (57-13-6)		
BCF - Fish [1]	< 10	
Partition coefficient n-octanol/water	-1.59 (at 25 °C)	
Mobility in soil	No additional information available	
Other adverse effects		
Other information	No other effects known.	
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	SECTION 13: Disposal considerations	
Disposal methods		
Product/Packaging disposal recommendations	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.	
	SECTION 14: Transport information	
Department of Transportation (DOT)	•	
In accordance with DOT		
Not regulated		

Not regulated

SECTION 15: Regulatory information

US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

International regulations

No additional information available

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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