



Turf Titan Thatch Buster

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Issue date: 01/26/2021

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Version: 1.0

SECTION 1: Identification

Product Identifier	Turf Titan Thatch Buster
Recommended use	Enhanced Reduction of lawn thatch residue.
Recommended restrictions	None known.
Manufacturer information	BW Fusion 3850 Concept Court, Suite 101 46808 Fort Wayne, IN – 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	Not classified
GHS Label elements, including precautionary statements	
GHS US labeling	No labeling applicable
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	%
1H,3H-Pyrano[4,3-b][1]benzopyran-9-carboxylic acid, 4,10-dihydro-3,7,8-trihydroxy-3-methyl-10-oxo-	(CAS-No.) 479-66-3	1 – 5
Nitrogen	(CAS-No.) 7727-37-9	≤ 1

*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. Remove contaminated clothing. 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.
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 Inhalation	May cause irritation to the respiratory tract.
Symptoms/effects Skin contact	May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/effects Eye contact	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects 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	Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	None known.

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Specific hazards arising from the chemical

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

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).

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 No additional information available.

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. Wear recommended personal protective equipment.

Methods for cleaning up Sweep or shovel spills into appropriate container for disposal. Rinse with water.

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

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling Avoid contact with skin, eyes and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

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 in original container. Keep container tightly closed. Store at room temperature. Do not store in direct sunlight. Do not freeze.

SECTION 8: Exposure controls/personal protection

Control parameters

Turf Titan Thatch Buster	
No additional information available	
1H,3H-Pyrano[4,3-b][1]benzopyran-9-carboxylic acid, 4,10-dihydro-3,7,8-trihydroxy-3-methyl-10-oxo- (479-66-3)	
No additional information available	
Nitrogen (7727-37-9)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH chemical category	Simple asphyxiant See Appendix F: Minimal Oxygen Content

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: Wear suitable gloves

Eye protection: Safety glasses or goggles are recommended when using product.

Skin and body protection: Wear suitable protective clothing

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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

Physical state	Liquid
Appearance	Tan to dark brown colored liquid
Color	Tan to dark brown colored
Odor	Creamed Corn
Odor threshold	No data available
pH	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Relative evaporation rate (butyl acetate=1)	No data available
Flammability (solid, gas)	Not flammable.
Vapor pressure	No data available
Relative vapor density at 20 °C	No data available
Relative density	1.00073 g/mL
Solubility	Easily dispersible in water.
Partition coefficient n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosion limits	No data available
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

None known.

Incompatible materials

None known.

Hazardous decomposition products

May include, and are not limited to: oxides of carbon.

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SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified
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
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. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact	May cause 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.

SECTION 12: Ecological information

Toxicity

Ecological Information With regard to environmental fate and behavior, this product is not expected to impose any environmental risk. Without continuous application, populations revert to pre-inoculation numbers with no lasting impact on the environment and indigenous populations.

Ecotoxicity Information This product has been in use for over 25 years for surface water, groundwater and land applications and has never been reported to be toxic to animals or plants.

Persistence and degradability

Turf Titan Thatch Buster

Persistence and degradability	Not established.
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Bioaccumulative potential

Turf Titan Thatch Buster

Bioaccumulative potential	Not established.
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Mobility in soil

No additional information available

Other adverse effects

Other information No other effects known.

SECTION 13: Disposal considerations

Disposal methods

Product/Packaging disposal recommendations Dispose in a safe manner in accordance with local/national regulations. Recycle empty containers where allowed.

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

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 except for:

1H,3H-Pyrano[4,3-b][1]benzopyran-9-carboxylic acid, 4,10-dihydro-3,7,8-trihydroxy-3-methyl-10-oxo-
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CAS-No. 479-66-3

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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