

Planet Turf

SAFETY DATA SHEET

1. Identification

Product identifier: Bio Green 15-4-9

Other means of identification: None.

Recommended use: Ag Product - Plant Nutrition

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information

Planet Turf

6422 E 2nd Ave, Spokane Valley, WA 99212

Company name – Planet Turf

Telephone: Branded Products Information 509-921-5421

Emergency phone number: Chemtrec - Domestic (800) 424-9300, Chemtrec - International +1 703-741-5970

E-mail - United States, jim@jcturf.com

2. Hazard(s) identification

Physical hazards: Not classified.

Health hazards: Not classified.

OSHA defined hazards: Not classified.

Label elements Hazard symbol: None

Signal word: Caution

Hazard statement: The mixture does not meet the criteria for classification.

Precautionary statement:

Prevention: Observe good industrial hygiene practices.

Response: Wash hands after handling.

Storage: Store away from incompatible materials.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC):- None known.

Supplemental information: None.

3. Composition/information on ingredients Mixtures

Chemical name Common name and synonyms CAS number %

Ingredient	CAS #	%
Urea	57-13-6 60 -	< 70
Ammonium Sulfate	7783-20-2 20 -	< 30
Muriate of Potash	7447-40-7 5 -	< 10
Other components below reportable levels		< 1
Sulfur	7704-34-9 1 -	< 3
Digested Sewage Sludge	NA	

Percentage ranges of composition to protect confidentiality or due to batch variation.

4. First-aid measures

Inhalation: If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.

Skin contact: Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact: Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Irritation of eyes. Upper respiratory tract irritation.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions: Use water spray to cool unopened containers.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards: No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas.

Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up: If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage Precautions for safe handling: Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Avoid prolonged exposure. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities: Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits US. Workplace Environmental Exposure Level (WEEL) Guides

Components Type Value Form:

Urea (CAS 57-13-6) TWA 10 mg/m³ Total particulate.

Biological limit values: No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection: Use tight fitting goggles if dust is generated.

Skin protection and Hand protection: Wear appropriate chemical resistant gloves.

Other: Wear suitable protective clothing.

Respiratory protection: Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties and Appearance

Physical state: Solid.

Form: Granule

Color Not available.

Odor Not available.

Odor threshold: Not available.

pH: Not available.

Melting point/freezing point 270.86 °F (132.7 °C) estimated

Initial boiling point and boiling range 2732 °F (1500 °C) estimated

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit – lower (%) Not available.

Flammability limit – upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 0.00001 hPa estimated

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Density 1.50 g/cm³ estimated

Specific gravity 1.5 estimated

VOC (Weight %) 64.96 % Switzerland estimated

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

11. Toxicological information

EYE CONTACT: May cause eye irritation.

SKIN CONTACT: ND

INHALATION: May cause irritation to throat or nasal passages.

INGESTION: Ingestion is unlikely through the normal anticipated use of this product.

CARCINOGENICITY: Not listed by OSHA, NTP, or IARC.

US EPA 40 CFR Part 503 (Biosolids Rule): Under the Clean Water Act, the U.S. Environmental Protection Agency (EPA) did an extensive multimedia risk assessment, beginning in the mid-1970's, to determine and state specific regulations regarding the usage and disposal of biosolids. Part 503 establishes numerical limits on pollutant concentrations to protect public health and the environment. The Rule also provides comfort to the public in knowing that the biosolids product is safe to use and beneficial to their environment. Manufacturers are required to meet Class A pathogen reduction limits, metal limits, and vector control requirements. These specific requirements must be met in order before any of the following occur: land application for crops or vegetation fertilization; surface disposal; incineration. Many revisions have been made to Part 503, including standards for dioxin compounds. Using data from extensive risk assessment done over the years, the EPA estimates the risk of cancer to be very low for those who are exposed to large amounts of the biosolid products. Please refer to http://water.epa.gov/scitech/wastetech/biosolids/503pe_index.cfm for more information.

12. Ecological information

Keep out of any water body

14. Transport information

DOT Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG Not regulated as dangerous goods.

Transport in bulk according to Not applicable.
Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

U.S. FEDERAL REGULATIONS/STATE REGULATIONS: SARA Title III Information:

Immediate Health – No

Delayed Health – No

Fire – Yes

Sudden Release of Pressure: No

Reactivity – No.

16. Other information, including date of preparation or last revision

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