

Safety Data Sheet

Section 1. Product and Company Identification

Product Name: Jonathan Green Patcher Combination Mulch Seed & Fertilizer
Contact: Jonathan Green
Manufacturer Info: Jonathan Green & Sons, Inc.
PO Box 326
Farmingdale, NJ 07727
Information Phone: CHEMTREC 1-800-424-9300
Email: support@jonathangreen.com
Revision Date: 6/28/2022
Product Code: N/A
Uses: Used for establishing turf grass in areas with minimal or nonexistent turf grass.

Section 2. Hazard Identification

OSHA/HCS status: While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the Not classified. Non-hazardous product. substance or mixture

GHS label elements Not Applicable.

Hazard pictograms Not Applicable.

Signal word No signal word

Hazard statements Not Applicable.

Precautionary statements: General Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention Not Applicable.

Response Not Applicable.

Storage Not Applicable.

Disposal Not Applicable.

Hazards not otherwise Handling and/or processing of this material may generate a dust classified which can cause mechanical irritation of the eyes, skin, nose and throat.

Section 3. Composition/Information on Ingredients

Composition/information on ingredients

Substance/mixture Multi-constituent substance

CAS number/other identifiers

CAS number Not available.

Ingredient name % CAS number

Coconut Coir 45-46(CAS-No) not assigned

Grass Seed 20-21(CAS-No) not assigned

Rice Hulls 15-16 -(CAS-No) not assigned

Mixed Fertilizer 16-17--(CAS-No) 57-13-6, 7783-28-0, 1317-65-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First Aid Measures

Description of First-aid Measures

Eye contact: No known significant effects or critical hazards. May cause irritation due to mechanical action. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. If irritation persists, get medical attention.

Inhalation: Non-hazardous in case of inhalation. No known significant effects or critical hazards. Get medical attention if symptoms occur.

In a fire: hazardous decomposition products may be produced. If any ill effects are felt, proceed as follows. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing: Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. For additional advice call the medical emergency number on this SDS or your poison center or doctor.

Skin contact: No known effect after skin contact. Rinse with water for a few minutes.

Ingestion: Ingestion may cause gastrointestinal irritation and diarrhea. Wash out mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. For additional advice call the medical emergency number on this SOS or your poison center or doctor.

Most important symptoms/effects: acute and delayed Potential acute health effects

Eye contact: May cause irritation due to mechanical action.

Inhalation: Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Skin contact: No known significant effects or critical hazards.

Ingestion: May cause irritation of the digestive tract with accompanying nausea, vomiting and diarrhea.

Over-exposure: signs/symptoms

Eye contact: Adverse symptoms may include the following: irritation, watering, redness

Inhalation: Adverse symptoms may include the following: respiratory tract irritation, coughing

Skin contact: No specific data.

Ingestion: No specific data.

Indication of immediate medical attention and special treatment if necessary

Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours. Specific treatments

No specific treatment. Treat symptomatically. Protection of first-aiders No action should be taken

involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire Fighting Measures

Flash point (Method Used): NA

Flammable Limits: NA

Extinguishing Media: Use an extinguishing agent suitable for the surrounding fire. media

Hazardous Combustion Products: may include the following materials: decomposition products nitrogen oxides, sulfur oxides

Sensitivity to Mechanical Impact: NA

LEL: NA

UEL: NA

Sensitivity to Static Discharge: NA

Conditions of Flammability: NA

Auto Ignition (degrees Celsius): NA

Special Fire and Explosion hazards: NA

Unusual Fire and Explosion Hazards: NA

Specific hazards arising No specific fire or explosion hazard. The substance will not burn from the chemical burn. Undergoes thermal decomposition at elevated temperatures to release toxic and flammable gases.

Special protective actions Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Special protective Fire-fighters should wear appropriate protective equipment for fire-fighters and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Remark Contain and collect the water used to fight the fire for later treatment and disposal.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures For non-emergency No action shall be taken involving any personal risk or without suitable training. Keep personnel unnecessary and unprotected personnel from entering. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency If specialized clothing is required to deal with the spillage, take note responders of any information in Section 8 on suitable and unsuitable materials.

See also the information in "For non-emergency personnel".

Environmental Avoid dispersal of spilled material and runoff and contact with soil, precautions waterways, drains and sewers. Will dissolve and disperse in water. Reclaiming material may not be possible. If possible, recover spilled product and place in suitable containers for recycle, reuse, or disposal. Product will promote algae growth and may degrade water quality and taste. Notify downstream water users. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up Small spill Move containers from spill area. Avoid dust generation. Recycle, if possible or place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Large spill Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Avoid creating dusty conditions and prevent wind dispersal. Recycle to process, if possible. or Place

spilled material in an appropriate container for disposal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and Storage

Precautions for safe handling Protective measures Put on appropriate personal protective equipment (see Section 8).

Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust.

Advice on general Eating, drinking and smoking should be prohibited in areas where occupational hygiene this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information hygiene measures.

Conditions for safe Store in accordance with local regulations. Hygroscopic. Absorbs storage, including any moisture on long-term storage under high humidity conditions. Store incompatibilities in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure Control/ Personal Protection

Control parameters Occupational exposure limits Ingredient name Exposure limits

Ammonium sulfate OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m³; Respirable fraction: 5 mg/m³.

Potassium magnesium sulfate OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m³ Respirable fraction: 5 mg/m³,

Calcium sulfate, dihydrate ACGIH TLV (United States, 4/2014). TWA: 10 mg/m³ 8 hours. Form: Inhalable fraction

Potassium chloride OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m³ Respirable fraction: 5 mg/m³.

Ammonium dihydrogen orthophosphate OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m³ Respirable fraction: 5 mg/m³.

Ammonium nitrate OSHA (United States): Particulates not otherwise regulated (PNOR) TWA (8 hours), Total dust: 15 mg/m³; Respirable fraction: 5 mg/m³.

Appropriate engineering Use only with adequate ventilation. If user operations general controls ate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure Emissions from ventilation or work process equipment controls should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

Eye/face protection Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If

contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection Hand protection The personal protective equipment required varies, depending upon your risk assessment. No special protection is required. For prolonged or repeated handling, use the following type of gloves: leather work gloves
Body protection Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or cotton/synthetic overalls or coveralls are normally suitable.

Other skin protection Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. No special measures are typically indicated.

Respiratory protection A respirator is not needed under normal and intended conditions of product use. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. 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. Contact your personal protective equipment supplier to verify the compatibility of the equipment for the intended purpose. For U.S. work sites where respiratory protection is required, ensure that a respiratory protection program meeting 29 CFR 1910.134 requirements is in place.

Section 9. Physical and Chemical Properties

Physical state Granular solid.

Color Brown.

Odor Odorless.

Odor threshold Not applicable.

pH 7

Melting point Not available.

Boiling point Decomposes.

Flash point [Product does not sustain combustion.]

Evaporation rate Not applicable.

Flammability (solid, gas) Not applicable. The substance will not burn. Undergoes thermal decomposition at elevated temperatures to release toxic and flammable gases.

Lower and upper explosive (flammable) limits Not applicable.

Vapor pressure Not applicable.

Vapor density Not applicable.

Relative density Not applicable.

Solubility Easily soluble in the following materials: hot water.

Soluble in the following materials: cold water.

Solubility in water Water soluble.

Partition coefficient: n-octanol/water Not available.

Auto-ignition temperature Not applicable

Decomposition temperature Not available.

Viscosity Not applicable.

Section 10. Stability and Reactivity

Reactivity No specific test data related to reactivity available for this product or its ingredients.

Chemical stability The product is stable.

Possibility of hazardous Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid Absorbs moisture on long-term storage under high humidity conditions. Store in a well-ventilated, dry place. Protect from moisture.

Incompatible materials Incompatible with halogens. Incompatible with oxidizers

Hazardous decomposition Under normal conditions of storage and use, hazardous products decomposition products should not be produced.

Section 11. Toxicological Information

Acute toxicity

Product/ingredient name, Result, Species, Dose, Exposure

Ammonium sulfate LD50 Oral Mouse - Male, 3040 mg/kg Female - LD50 Oral Rat 2840 mg/kg - LD50 Oral Rat - Male, >2000 mg/kg -Female

Potassium magnesium sulfate LD50 Oral Rat 3 g/kg -Calcium sulfate, dihydrate LC50 Inhalation Rat - Male, >3.26 mg/l 4 hours Dusts and mists Female CaSO₄.2H₂O-LD50 Oral Rat - Male, >1581 mg/kg - Female

Ammonium dihydrogen LD50 Oral Rat - Male, >2000 mg/kg -orthophosphate Female

Potassium chloride LD50 Oral Rat 2600 mg/kg -

Ammonium nitrate LD50 Oral Rat 2217 mg/kg -LD50 Oral Rat - Male, 2950 mg/kg -Female

Conclusion/Summary Very low toxicity to humans or animals. No known significant effects or critical hazards.

Irritation/Corrosion

Product/ingredient name Result Species Score Exposure Observation

Ammonium sulfate Skin Rabbit 0 20 hours 24 hours Eyes Rabbit 0 - 72 hours

Ammonium nitrate Skin Rabbit 0 - 72 hours-Eyes - Edema Rabbit 3 - 3 days of the conjunctivae

Conclusion/Summary

Skin No known significant effects or critical hazards.

Eyes Non-irritating to the eyes. Based on available data, the classification criteria are not met.

Respiratory No known significant effects or critical hazards. Sensitization

Product/ingredient name Route of Species Result exposure Ammonium sulfate skin Guinea pig Not sensitizing

Calcium sulfate, dihydrate skin Guinea pig Not sensitizing

Ammonium nitrate skin Mouse Not sensitizing

Conclusion/Summary Skin Non-sensitizer.

Respiratory No known significant effects or critical hazards. Mutagenicity

Product/ingredient name Test Experiment Result

Ammonium sulfate OECD 476 Experiment: In vitro Negative

Subject: Mammalian-Animal Cell: Somatic OECD 473 Experiment: In vitro Negative

Subject: Mammalian-Animal Cell: Germ Calcium sulfate, dihydrate OECD 476 /n vitro Experiment: In vitro Negative Mammalian Cell Gene Mutation Test

Subject: Mammalian-Animal Cell: Germ Potassium chloride - Experiment: In vivo Negative

Subject: Mammalian-Animal Cell: Somatic Ammonium nitrate OECD 471 Bacterial Experiment: In vitro Negative

Reverse Mutation Test Subject: Bacteria OECD 476 /In vitro Experiment: In vitro Negative

Mammalian Cell Gene Mutation Test Subject: Mammalian-Animal Conclusion/Summary No known significant effects or critical hazards.

Carcinogenicity

Product/ingredient name Result Species Dose Exposure

Ammonium sulfate Negative - Oral - TClo Rat - Male, 1288 mg/kg 2 years; 7 days Female per week

Potassium chloride Negative - Oral - TDlo Rat - Male 1820 mg/kg - Conclusion/Summary No known significant effects or critical hazards.

Classification

Product/ingredient name OSHA IARC NTP

Ammonium sulfate None. - Reproductive toxicity

Product/ingredient name Maternal Fertility Development Species Dose Exposure toxicity toxin

Ammonium sulfate Negative Negative - Mouse - Oral: -Male, 5000 mg/Female kg

Calcium sulfate, dihydrate Negative Negative Negative Rat - Male, Oral Female

Conclusion/Summary No known significant effects or critical hazards Teratogenicity

Product/ingredient name Result Species Dose Exposure

Ammonium sulfate Negative - Oral Rat - Male, 1500 mg/kg - Female

Conclusion/Summary No known significant effects or critical hazards.

Specific target organ toxicity (single exposure) Not available.

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard Not available.

Information on the likely routes of entry anticipated: Inhalation. routes of exposure

Potential acute health effects

Eye contact May cause irritation due to mechanical action.

Inhalation Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Skin contact No known significant effects or critical hazards.

Ingestion May cause irritation of the digestive tract with accompanying nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact Adverse symptoms may include the following: irritation, watering, redness

Inhalation Adverse symptoms may include the following: respiratory tract irritation coughing

Skin contact No specific data.

Ingestion No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure Not Available

Potential immediate effects Not available.

Potential delayed effects Not available.

Potential chronic health effects

Product/ingredient name Result Species Dose Exposure

Ammonium sulfate Chronic NOAEL Oral Rat - Male, 256 mg/kg 52 weeks; 7 days Female per week

Potassium chloride Chronic NOAEL Oral Rat - Male 1820 mg/kg -

Ammonium nitrate Chronic NOAEL Oral Rat - Male, 256 mg/kg - Female

Conclusion/Summary No known significant effects or critical hazards.

General No known significant effects or critical hazards.

Carcinogenicity No known significant effects or critical hazards.

Mutagenicity No known significant effects or critical hazards.

Teratogenicity No known significant effects or critical hazards.
Developmental effects No known significant effects or critical hazards.
Fertility effects No known significant effects or critical hazards.
Numerical measures of toxicity
Acute toxicity estimates
Route ATE value
Oral 1924.2 mg/kg
Inhalation (dusts and mists) 10.27 mg/l

Section 12. Ecological Information

Do not wash down storm drains or sanitary sewer system.

Section 13. Disposal Considerations

Dispose of contents Properly
Dispose of bag properly
Bag can be reused or recycled
Product is not hazardous waste under regulation of US
If uncontaminated, dispose in non-metallic Mineral. If contaminated, use appropriate method for containment with local regulation(s).

Section 14. Transport Information

US DOT: Not Classified
UN#: Not Classified
Precaution to be taken in handling and storing: Product should be kept in a dry place. Avoid creation of respirable dust if possible. Use effective ventilation.

Section 15. Regulatory Information

SARA HAZARDOUS CLASS: Acute
SARA 313: NO
SARA 302: NO

TPQ:
CERCLA: NO

RQ:
RCRA: NO

NFPA HAZARD RATING:

Health: [1]
Fire: [0]
Reactivity: [0]
Special: []

HMIS CODES:

Health: [1]
Fire: [0]
Reactivity: [0]

NFPA HAZARD RATING SCALE:

0 = Minimal 3 = Serious
1 = Slight 4 = Severe
2 = Moderate

HMIS HAZARD RATING SCALE:

0 = Minimal 3 = Serious
1 = Slight 4 = Severe
2 = Moderate

| |
|-------------------------------|
| Section 16. Other Information |
|-------------------------------|

All information appearing herein is based upon data obtained from the manufacture and/or technical sources. While the information is believed to be accurate as of the effective date given above, Jonathan Green & Sons Inc. makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Jonathan Green & Sons Inc. control. Therefore, users are responsible for determining whether under their own operating conditions the product is suitable for their particular use. Users assume all risks of use, handling, and disposal of the product. The publication, use of, or reliance upon information contained herein does not relate to the use of this product in combination with any other material or in any other process. Furthermore, Jonathan Green & Sons Inc. products are sold subject to the following.

LIMITATION OF LIABILITY AND DISCLAIMER: NO WARRANTY OR REPRESENTATION IS MADE, EXPRESS OR IMPLIED, CONCERNING THE RESULTS TO BE OBTAINED FROM THE USE OF THIS PRODUCT IF NOT USED IN ACCORDANCE WITH DIRECTION AND/OR GENERALLY ACCEPTED APPLICATION PROCEDURES AND PRECAUTIONS. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF LIABILITY OF MIDWEST ORGANICS, CORPORATION FOR ANY LOSSES, DAMAGES OR INJURIES RESULTING FROM THE USE OF HANDLING OF THIS PRODUCT SHALL BE THE REFUND OF THE PURCHASE PRICE. **Jonathan Green & Sons Inc. EXPRESSLY EXCLUDES AND DISCLAIMS ANY WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE OR USE.**