## SAFETY DATA SHEET

#### 1. Identification

Product identifier Jonathan Green Veri-Green Weed & Feed

Other means of identification

**Product** 228-280-50931

registration number

Recommended use Not available.

Recommended restrictions Workers (and your customers or users in the case of resale) should be informed of the potential

presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required

under applicable regulations.

#### Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name JONATHAN GREEN, INC.

Address PO BOX 326

FARMINGDALE, NJ 07727

**United States** 

**Telephone** Not available.

E-mail support@jonathangreen.com

Emergency phone number CHEMTREC 800-424-9300

## 2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Serious eye damage/eye irritation Category 2A

Sensitization, skin Category 1
Carcinogenicity Category 1A
Reproductive toxicity Category 2
Specific target organ toxicity, repeated Category 1

exposure

OSHA defined hazards Not classified.

Label elements





Signal word Danger

Hazard statement May cause an allergic skin reaction. Causes serious eye irritation. May cause cancer. Suspected

of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated

exposure.

**Precautionary statement** 

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace.

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

**Response** If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse.

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Storage Store locked up.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise None known.

classified (HNOC)

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52.1% of the mixture consists of component(s) of unknown acute oral toxicity. 97.06% of the mixture consists of component(s) of unknown acute dermal toxicity. 97.06% of the mixture consists of component(s) of unknown acute inhalation toxicity.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
UREA		57-13-6	44.96
Limestone (calcium Carbonate)		1317-65-3	36.1
BENTONITE		1302-78-9	10
2,4-d (dichlorophenoxyacetic Acid	d)	94-75-7	0.7
(+)-R-2-(2,4-DICHLOROPHENO) PROPIONIC ACID	(Y)	15165-67-0	0.18
(R)-2-(4-CHLORO-2-METHYLPH NOXY)PROPIONIC ACID	E	16484-77-8	0.18
Other components below reportal	ole levels		7.88

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention

if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes. Coughing. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation.

Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable

**General information** 

extinguishing media

from the chemical

Specific hazards arising

During fire, gases hazardous to health may be formed.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

Special protective equipment and precautions for firefighters

Material can be slippery when wet.

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

Specific methods General fire hazards No unusual fire or explosion hazards noted.

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

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Material can be slippery when wet. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. 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. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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# Methods and materials for containment and cleaning up

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Minimize dust generation and accumulation. Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. 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

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in 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

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Туре	Value	Form		
PEL	10 mg/m3			
PEL	5 mg/m3	Respirable fraction.		
	15 mg/m3	Total dust.		
it Values				
Туре	Value	Form		
TWA	10 mg/m3	Inhalable fraction.		
S. NIOSH: Pocket Guide to Chemical Hazards				
Туре	Value	Form		
TWA	10 mg/m3			
TWA	5 mg/m3	Respirable.		
	10 mg/m3	Total		
ental Exposure Level (WEEL) Guides				
Type	Value	Form		
TWA	10 mg/m3	Total particulate.		
	ngredient(s).			
	PEL PEL  iit Values  Type  TWA  to Chemical Hazards Type  TWA  TWA  TWA  TWA  TWA	PEL 10 mg/m3  PEL 5 mg/m3  15 mg/m3  iit Values  Type Value  TWA 10 mg/m3  to Chemical Hazards Type Value  TWA 10 mg/m3  TWA 5 mg/m3  PENTAL Exposure Level (WEEL) Guides Type Value  Type Value		

#### Appropriate engineering controls

Good general ventilation 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. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Provide eyewash station.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

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

exceeding the exposure limits. Chemical respirator with organic vapor cartridge, full

facepiece, dust and mist filter.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

**General hygiene** considerations

Observe any medical surveillance requirements. 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. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

**Appearance** 

Physical state Solid. **Form** Granular. Color Not available. Odor Not available. **Odor threshold** Not available. Ha Not available.

Melting point/freezing point 270.86 °F (132.7 °C) estimated Initial boiling point and boiling 3072.2 °F (1689 °C) estimated

range

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 0.00002 hPa estimated

Vapor density Not available. Relative density Not available.

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. Viscosity Not available.

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**Density** 12.35 lbs/gal estimated

**Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing. Specific gravity 1.48 estimated

## 10. Stability and reactivity

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

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact

with incompatible materials.

Incompatible materials Fluorine.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

## 11. Toxicological information

## Information on likely routes of exposure

Inhalation Dust may irritate respiratory system. Prolonged inhalation may be harmful. Skin contact Dust or powder may irritate the skin. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Dusts may irritate the respiratory tract, skin and eyes. Coughing. May cause an allergic

skin reaction. Dermatitis. Rash.

## Information on toxicological effects

**Acute toxicity** Not known.

Components **Species Test Results** 

## (+)-R-2-(2,4-DICHLOROPHENOXY)PROPIONIC ACID (CAS 15165-67-0)

Acute **Dermal** 

LD50 Rat > 2000 mg/kg

Inhalation

LC50 Rat > 0.65 mg/l, 4 Hours

(R)-2-(4-CHLORO-2-METHYLPHENOXY)PROPIONIC ACID (CAS 16484-77-8)

Acute **Dermal** 

900 mg/kg LD50 Rabbit

UREA (CAS 57-13-6)

Acute

Oral

LD50 Rat 8471 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

Causes serious eye irritation.

irritation

#### Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

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#### Carcinogenicity

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

(+)-R-2-(2,4-DICHLOROPHENOXY)PROPIONIC ACID

2B Possibly carcinogenic to humans.

(CAS 15165-67-0)

2,4-d (dichlorophenoxyacetic Acid) (CAS 94-75-7)

2B Possibly carcinogenic to humans.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Specific target organ toxicity

- single exposure

Not classified.

Specific target organ toxicity

- repeated exposure

Reproductive toxicity

Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful. Causes damage to organs through prolonged or

Suspected of damaging fertility or the unborn child.

repeated exposure. Prolonged exposure may cause chronic effects.

#### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3.8 mg/l, 96 hours

**Test Results** Components **Species** 

(+)-R-2-(2,4-DICHLOROPHENOXY)PROPIONIC ACID (CAS 15165-67-0)

Aquatic

Fish LC50 Brown trout (Salmo trutta) 78 mg/l, 96 hours

(R)-2-(4-CHLORO-2-METHYLPHENOXY)PROPIONIC ACID (CAS 16484-77-8)

Aquatic

LC50 Fish Rainbow trout, donaldson trout > 10 mg/l, 96 hours

(Oncorhynchus mykiss)

2,4-d (dichlorophenoxyacetic Acid) (CAS 94-75-7)

Aquatic

Fish

EC50 Water flea (Daphnia pulex) 2.4 - 4.3 mg/l, 48 hours Crustacea LC50 Fish (Labeo boga)

**BENTONITE (CAS 1302-78-9)** 

Aquatic

Fish LC50 Rainbow trout, donaldson trout 19000 mg/l, 96 hours

(Oncorhynchus mykiss)

UREA (CAS 57-13-6)

Aquatic

EC50 Crustacea Water flea (Daphnia magna) 3910 mg/l, 48 hours Fish LC50 Giant gourami (Colisa fasciata) 5 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

#### Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

(R)-2-(4-CHLORO-2-METHYLPHENOXY)PROPIONIC ACID 3.13 2,4-d (dichlorophenoxyacetic Acid) 2.81 **UREA** -2.11

Mobility in soil No data available.

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Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

**Disposal instructions** 

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate material under controlled conditions in an approved incinerator. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

D016: Waste 2.4-D

The waste code should be assigned in discussion between the user, the producer and

the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### **IATA**

**UN** number

UN3077

**UN** proper shipping name Transport hazard class(es) Environmentally hazardous substance, solid, n.o.s. (UREA)

Class 9 Subsidiary Ш risk Packing group Yes **Environmental** hazards ERG Code 9L

Special precautions for user Other information

Read safety instructions, SDS and emergency procedures before handling.

Passenger and cargo aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

**UN** number UN3077

**UN proper shipping name** 

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (UREA), MARINE POLLUTANT

Transport hazard class(es)

Class 9 Subsidiary risk Packing group Ш **Environmental hazards** 

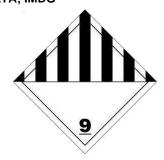
Yes Marine pollutant EmS F-A, S-F

Special precautions for user Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Read safety instructions, SDS and emergency procedures before handling.

Not applicable.

IATA; IMDG



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#### Marine pollutant



**General information** 

IMDG Regulated Marine Pollutant.

## 15. Regulatory information

**US** federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

**Toxic Substances** One or more components of the mixture are not on the TSCA 8(b) inventory or are designated

Control Act (TSCA) "inactive".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

(+)-R-2-(2,4-DICHLOROPHENOXY)PROPIONIC 0.1 % One-Time Export Notification only.

ACID (CAS 15165-67-0)

CERCLA Hazardous Substance List (40 CFR 302.4)

2,4-d (dichlorophenoxyacetic Acid) (CAS 94-75-7) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

**Classified hazard** Serious eye damage or eye irritation categories Respiratory or skin sensitization

Yes

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

## SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
(+)-R-2-(2,4-DICHLOROPHENOXY)PROPIONIC ACID	15165-67-0	0.18
(R)-2-(4-CHLORO-2-METHYLPHENOXY)PROPION IC ACID	N 16484-77-8	0.18
2,4-d (dichlorophenoxyacetic Acid)	94-75-7	0.7

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

2,4-d (dichlorophenoxyacetic Acid) (CAS 94-75-7)

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

US regulations state

## **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

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#### International Inventories

Australia

Country(s) or region

	•	
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No

Australian Inventory of Chemical Substances (AICS)

New Zealand New Zealand Inventory No No

**Philippines** Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Inventory name

Taiwan Taiwan Chemical Substance Inventory (TCSI) No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

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

Issue date 02-18-2019

Version # 01

**Disclaimer** 

JONATHAN GREEN, INC. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

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On inventory (yes/no)\*

No

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).