# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Jonathan Green Grub & Insect Control

Other means of identification

Recommended use Insect Control for Lawns

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Distributor

Company name JONATHAN GREEN & SONS, 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 Category 3 Acute toxicity, oral

> Acute toxicity, dermal Category 3 Acute toxicity, inhalation Category 1

**OSHA** defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Toxic if swallowed. Toxic in contact with skin. Fatal if inhaled. Toxic to aquatic life. Toxic to aquatic

life with long lasting effects.

**Precautionary statement** 

Prevention Do not breathe vapor. Wash thoroughly after handling. Do not eat, drink or smoke when

using this product. Use only outdoors or in a well -ventilated area. Avoid release to the

environment. Wear protective gloves/protective clothing. Wear respiratory protection.

If swallowed: Immediately call a poison center/doctor. If on skin: Wash with plenty of water. Response

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). Rinse mouth. Take off

immediately all contaminated clothing and wash it before reuse. Collect spillage.

**Storage** Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information 97.3% of the mixture consists of component(s) of unknown acute oral toxicity. 97.3% of the

mixture consists of component(s) of unknown acute dermal toxicity. 97.3% of the mixture consists of component(s) of unknown acute inhalation toxicity. % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. % of the mixture consists of

component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

**Mixtures** 

Chemical name	Common name and synonyms	CAS number	%
LAMBDA-CYHALOTHRIN (ISO); A		91465-08-6	1.35
1:1 MIXTURE OF:			
(S)ALPHACYANO-3-PHENOXY			
BENZYL(Z)-(1R)-CIS-3-(2-CHLOR			
O-3,3,3-TRIFLUOROPROPENYL)-			
2,2-DIMETHYLCYCLOPROPANEC			
(R)ARBOXYLALPHA.TE;-CYANO-3-PHENOXY	<i>(</i>		
(Z)BENZYL-(1S)-CIS-3-(2-CHLORO-3,3,3-T	•		
RIFLUOROPROPENYL)-2,2-DIM			
Imidicloprid		138261-41-3	1.35
Other components below reportable	levels		97.3

<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 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

Skin contact Take off immediately all contaminated clothing. Wash off with soap and water. Get medical

advice/attention if you feel unwell. Get medical attention if irritation develops and persists.

Wash contaminated clothing before reuse.

Eye contact 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 Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach

content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-

way valve or other proper respiratory medical device.

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm.

Keep victim under observation. Symptoms may be delayed.

General information Take off immediately all contaminated clothing. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to

Do not use water jet as an extinguisher, as this will spread the fire.

the doctor in attendance.

## 5. Fire-fighting measures

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

Unsuitable

extinguishing media

During fire, gases hazardous to health may be formed.

Specific hazards arising from the chemical

Special protective equipment

and precautions for firefighters

Fire fighting

Move containers from fire area if you can do so without risk.

Specific methods General fire hazards

equipment/instructions

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

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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. Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapors or spray mist. 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.

# Methods and materials for containment and cleaning up

This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: 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.

#### **Environmental precautions**

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

#### Precautions for safe handling

Do not breathe vapors or spray mist. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container. Store in a well-ventilated place.

## 8. Exposure controls/personal protection

## Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value
LAMBDA-CYHALOTHRIN	PEL	5 mg/m3
(ISO); A 1:1 MIXTURE OF:		
(S)ALPHACYANO-3-PH		
ENOXYBENZYL(Z)-(1R)-CI		
S-3-(2-CHLORO-3,3,3-TRIF		
LUOROPROPENYL)-2,2-DI		
METHYLCYCLOPROPANE		
(R)CARBOXYLATE;ALPHACYANO-3-PH		
(Z)ENOXYBENZYL-(1S)-CIS-3-(2-CHLORO-		
3,3,3-TRIFLUOROPROPEN		
YL)-2,2-DIM (CAS		
91465-08-6)		
US. ACGIH Threshold Limit Values		
Componento	Tymo	Volue

Components	Туре	Value	
LAMBDA-CYHALOTHRIN	TWA	5 mg/m3	
(ISO); A 1:1 MIXTURE OF:			
(S)- AI PHA -CYANO-3-PH			

(S)-.ALPHA.-CYANO-3-PH ENOXYBENZYL(Z)-(1R)-CI S-3-(2-CHLORO-3,3,3-TRIF LUOROPROPENYL)-2,2-DI METHYLCYCLOPROPANE CARBOXYLATE;(R)-.ALPHA.-CYANO-3-PH ENOXYBENZYL(Z)-(1S)-CIS-3-(2-CHLORO-3,3,3-TRIFLUOROPROPEN YL)-2,2-DIM (CAS

91465-08-6)

Material name: Jonathan Green Grub & Insect Control 4853 Version #: 01 Issue date: 12-21-2017

**US. NIOSH: Pocket Guide to Chemical Hazards** 

Components Type Value

LAMBDA-CYHALOTHRIN TWA

(ISO); A 1:1 MIXTURE OF: (S)-.ALPHA.-CYANO-3-PH ENOXYBENZYL(Z)-(1R)-CI S-3-(2-CHLORO-3,3,3-TRIF LUOROPROPENYL)-2,2-DI METHYLCYCLOPROPANE

CARBOXYLATE;(R)-.ALPHA.-CYANO-3-PH ENOXYBENZYL(Z)-(1S)-CIS-3-(2-CHLORO-

3,3,3-TRIFLUOROPROPEN

YL)-2,2-DIM (CAS 91465-08-6)

**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.

5 mg/m3

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

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by

the glove supplier.

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** Wear positive pressure self-contained breathing apparatus (SCBA).

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

General hygiene considerations

Keep away from food and drink. 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

**Appearance** 

Physical state Liquid. Form Liquid.

Color Not available.

Odor threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

Not available.

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

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.

Not available.

Vapor pressureNot available.Vapor densityNot available.Relative densityNot 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.

Other information

Density 7.26 lbs/gal estimated

**Explosive properties** Not explosive. **Oxidizing properties** Not oxidizing. Specific gravity 0.87 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 Hazardous polymerization does not occur.

reactions

Contact with incompatible materials. Conditions to avoid

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation Fatal if inhaled.

Skin contact Toxic in contact with skin.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Toxic if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

## Information on toxicological effects

**Acute toxicity** Fatal if inhaled. Toxic in contact with skin. Toxic if swallowed.

Components Species **Test Results** 

Mallet (CAS 138261-41-3)

Acute Inhalation

LC50 Rat > 0.069 mg/l, 4 Hours

Oral

LD50 Rat 450 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Skin

sensitization

Not a respiratory sensitizer.

This product is not expected to cause skin sensitization.

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

are mutagenic or genotoxic.

Carcinogenicity

Material name: Jonathan Green Grub & Insect Control SDS US 4853 Version #: 01 Issue date: 12-21-2017 5/8

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

## IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

LAMBDA-CYHALOTHRIN (ISO); A 1:1 MIXTURE OF: (S)-.ALPHA.-CYANO-3-PHENOXYBENZYL(Z)-(1R)-CIS-3-(2-C HLORO-3,3,3-TRIFLUOROPROPENYL)-2,2-DIMETHYLCYCLO PROPANECARBOXYLATE:

(R)-.ALPHA.-CYANO-3-PHENOXYBENZYL

(Z)-(1S)-CIS-3-(2-CHLORO-3,3,3-TRIFLUOROPROPENYL)-2,2

-DIM

Mobility in soil No data available.

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. Do not

> allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Hazardous waste code

Dispose in accordance with all applicable regulations.

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** UN3082

**UN** proper shipping name Environmentally hazardous substance, liquid, n.o.s.

Transport hazard class(es)

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

Special precautions for user Not available.

Other information

Passenger and cargo aircraft Cargo aircraft only Allowed with restrictions.

Allowed with restrictions.

**IMDG** 

**UN number** UN3082

**UN** proper shipping name Transport hazard class(es) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT

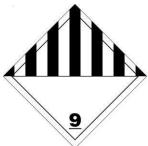
**Class** 9 Subsidiary risk Packing group Ш **Environmental hazards** 

Yes Marine pollutant F-A, S-F **EmS** Not available. Special precautions for user Not established.

Transport in bulk according to Annex II of MARPOL 73/78 and the

**IBC Code** 





## Marine pollutant



**General information** IMDG Regulated Marine Pollutant. DOT 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.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

LAMBDA-CYHALOTHRIN (ISO); A 1:1 MIXTURE OF:Listed. (S)-.ALPHA.-CYANO-3-PHENOXYBENZYL(Z)-(1R)-CIS-3-(2-CHLORO-3,3,3-TRIFLUOROPROPENYL)-2,2-DIME THYLCYCLOPROPANECARBOXYLATE: (R)-.ALPHA.-CYANO-3-PHENOXYBENZYL (Z)-(1S)-CIS-3-(2-CHLORO-3,3,3-TRIFLUOROPROPEN

YL)-2,2-DIM (CAS 91465-08-6)

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

Yes

chemical

Classified hazard

Acute toxicity (any route of exposure)

categories

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
LAMBDA-CYHALOTHRIN (ISO); A 1:1 MIXTURE	91465-08-6	1.35

OF:

(S)-.ALPHA.-CYANO-3-PHENOXYBENZYL(Z)-(1R)-CIS-3-(2-CHLORO-3,3,3-TRIFLUOROPROPENYL) - 2,2-DIMETHYLCYCLOPROPANECARBOXYLATE;

(R)-.ALPHA.-CYANO-3-PHENOXYBENZYL

(Z)-(1S)-CIS-3-(2 -CHLORO-3,3,3-TRIFLUOROPRO

PÉNYL)-2,2-DIM

#### Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## **US state regulations**

#### **California Proposition 65**



WARNING: California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is

not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

# **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
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
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Toxic Chemical Substances (TCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	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).

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

**Issue date** 12-21-2017

Version # 01

Disclaimer JONATHAN GREEN & SONS, 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.