



SAFETY DATA SHEET

Issue Date: 27-Apr-2015

Revision Date: 27-Apr-2015

Version: GHS

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: GRASS GETTER®
EPA Registration Number: 7969-58-54705

Recommended use of the chemical and restrictions on use:
Recommended Use*: Herbicide

*The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the Supplier of the Safety Data Sheet

Distributed by:
Lawn and Garden Products, Inc.
PO Box 35000
Fresno, CA 93745
Phone – (559) 499-2100

Emergency Phone Number (24 Hour): CHEMTREC®: (800) 424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Aspiration hazard	Category 1
Flammable liquids	Category 4
Acute toxicity – Inhalation (Mist)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2
STOT SE (Specific target organ toxicity – single exposure)	Category 3 (Vapors may cause drowsiness and dizziness)
Aquatic acute (Hazardous to the aquatic environment – acute)	Category 2
Aquatic chronic (Hazardous to the aquatic environment – chronic)	Category 2

Label Elements

Pictogram:



Signal Word:
DANGER

Hazard Statement

H227 – Combustible liquid
H318 – Causes serious eye damage
H304 – May be fatal if swallowed and enters airways
H336 – May cause drowsiness or dizziness
H351 – Suspected of causing cancer
H401 – Toxic to aquatic life
H411 – Toxic to aquatic life with long lasting effects

Precautionary Statements – Prevention:

P280 – Wear protective gloves/protective clothing/eye protection/face protection
P201 – Obtain special instructions before use
P273 – Avoid release to the environment
P271 – Use only outdoors or in a well-ventilated area
P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P202 – Do not handle until all safety precautions have been read and understood
P260 – Do not breathe dust/gas/mist/vapors

Precautionary Statements – Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 Immediately call a POISON CENTER or doctor/physician
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
P391 Collect spillage
P331 Do NOT induce vomiting
P370 + P378 In case of fire: use water spray, dry powder, foam or carbon dioxide for extinction

Precautionary Statements – Storage:

P233 Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

Precautionary Statements – Disposal:

P501 – Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified (HNOC):

Labeling of special preparations (GHS):

The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 64% dermal

The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 64% Inhalation – vapor

The following percentage of the mixture consists of component(s) with unknown hazards regarding the acute toxicity: 64% Inhalation – mist

According to Regulation 1994 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

Emergency overview

WARNING

Causes substantial but temporary eye injury.

HARMFUL IF SWALLOWED.

KEEP OUT OF REACH OF CHILDREN.

KEEP OUT OF REACH OF DOMESTIC ANIMALS.

Avoid contact with the skin, eyes and clothing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

According to Regulation 2012 OSHA Hazard Communication Standard 29 CFR 1910.1200

CAS Number

74051-80-2

Content (W/W)

18.0%

Chemical name

Sethoxydim

64742-94-5	65.35%	solvent naphtha
91-20-3	7.32%	naphthalene
95-63-6	0.1 – 1.0%	1,2,4-trimethylbenzene

According to Regulation 1994 OSHA Hazard Communication Standard 29 CFR 1910.1200

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
74051-80-2	18.0%	Sethoxydim
64742-94-5	65.35%	solvent naphtha
91-20-3	7.32%	naphthalene
	9.33%	Proprietary ingredients

4. FIRST AID MEASURES

Description of first aid measures:

- General advice:** First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.
- If inhaled:** Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled/metered dose inhaler.
- If on skin:** Immediately wash through with plenty of water, apply sterile dressings, consult a skin specialist.
- If in eyes:** Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open. Consult an eye specialist. .
- If swallowed:** Immediately rinse mouth and then drink 200-300 ml of water. Seek medical attention. Do not induce vomiting due to aspiration hazard.

Most important symptoms and effects, both acute and delayed

- Symptoms:** The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.
- Hazards:** Because of the increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent, vomiting should be induced only under professional supervision.

Indication of any immediate medical attention and special treatment needed

- Note to physician:** Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Foam, dry powder, carbon dioxide, water spray

Special hazards arising from the substance or mixture

Hazards during fire-fighting: carbon monoxide, carbon dioxide, sulfur dioxide, nitrogen oxide, nitrogen dioxide, hydrocarbons. If product is heated above decomposition temperature, toxic vapors will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

Advice for fire-fighters:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Personal precautions:** Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions: Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Causes substantial but temporary eye injury. Causes skin irritation. Harmful if absorbed through skin or swallowed. DO NOT get in eyes, on skin, or on clothing. Wear long-sleeved shirt, long pants, chemical-resistant gloves made of any waterproof material, protective eyewear, shoes, and socks. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. DO NOT allow people or pets to come into contact with treated areas until spray has dried.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed in a dry and well-ventilated place. DO NOT allow this product to freeze. DO NOT store below 32° F or above 100° F. Store unused product in original container only, out of reach of children and animals. NEVER TRANSFER THIS PRODUCT TO ANOTHER CONTAINER FOR STORAGE.

Changes in the properties of the product may occur if product is stored above indicated temperature for extended periods of time.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

Components with occupational exposure limits

Naphthalene	OSHA PEL	PEL 10 ppm 50 mg/m ³ ; STEL value 15 ppm 75 mg/m ³ ; TWA value 10 ppm 50 mg/m ³
	ACGIH TLV	TWA value 10 ppm; STEL value 15 ppm; Skin Designation: This substance can be absorbed through the skin.
1,2,4-trimethylbenzene	OSHA PEL	TWA value 25 ppm 125 mg/m ³
	ACGIH TLV	TWA value 25 ppm
Solvent naphtha	OSHA PEL	PEL 100 ppm 400 mg/m ³ ; TWA value 100 ppm 400 mg/m ³

Individual protection measures, such as personal protective equipment

Eye/face protection: Protective eyewear.

Skin and body protection: Long-sleeved shirt, long pants, chemical resistant gloves made of any waterproof material, shoes plus socks.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations, Respiratory protection must be provided in accordance with current local regulations.

General safety and hygiene measures: Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid	
Odor:	Aromatic	
Odor threshold:	Not determined since harmful by inhalation	
Color:	Yellow	
pH value:	Approx. 3 – 5	(1 %(m), 25°C)
Freezing point:	Approx. -20°C	Information applies to the solvent
Boiling point:	Approx. 178 – 209°C	Information applies to the solvent
Flash point:	145 °F	
Flammability:	Not highly flammable	
Lower explosion limit:		As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use
Upper explosion limit:		As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use
Autoignition:	449 – 510°C	Information applies to the solvent
Vapor pressure:	Approx. 1 nPa	(20°C) Information applied to the solvent
Density:	Approx. 0.93 g/cm ³ 7.7696 lb/gal	Information applies to the solvent (68°F)
Vapor density:		Not applicable
Partitioning coefficient; n-Octanol/ Water (log Pow):		Not applicable
Thermal Decomposition:	Carbon monoxide, carbon dioxide, sulfur dioxide, nitrogen dioxide, nitrogen oxide, hydrocarbons. Stable at ambient temperature. If product is heated above decomposition temperature toxic vapors may be released.	
Viscosity, dynamic:	Approx. 2.80 mPa.s	@ 20 °C
Solubility in water:	Emulsifiable	
Molar mass:	327.5 g/mol	
Evaporation rate:		Not applicable
Other information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

10. STABILITY AND REACTIVITY

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosions to metals: Corrosive effects to metal are not anticipated.

Oxidizing properties: Not an oxidizer.

Chemical stability

This product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

This product is chemically stable. Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

Conditions to avoid

Incompatible materials

Oxidizing agents

Hazardous decomposition products

Prolonged thermal loading can result in products of degradation being given off.

Thermal decomposition: Possible thermal decomposition products: carbon monoxide, carbon dioxide, Sulfur dioxide, nitrogen dioxide, nitrogen oxides, Hydrocarbons. Stable at ambient temperature. If product is heated above decomposition temperature toxic vapors may be released.

11. TOXICOLOGICAL INFORMATION

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Assessment of acute toxicity: Slightly toxic after single ingestion. Relatively nontoxic after short-term inhalation. Slightly toxic after short-term skin contact.

Oral LD₅₀	5,000 mg/kg (rat, male)	4,285.8 mg/kg (rat, female)
Inhalation LC₅₀	>7.6 mg/L (rat; 4 hours)	
Dermal LD₅₀	>5,000 mg/kg (rat)	>4,000 mg/kg (rat)
Irritation/corrosion	Assessment of irritating effects. May cause moderate irritation to the skin. Causes substantial but temporary eye injury.	
Skin:	Irritating (rabbit)	
Eye:	Irritating (rabbit)	

Sensitization: Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. (Guinea pig). Skin sensitizing effects were not observed in animal studies.

Chronic Toxicity/Effects:

Repeated dose toxicity	Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.
Information on naphthalene	Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects. The substance may cause damage to the olfactory epithelium after repeated inhalation. Repeated dermal uptake of the substance did not cause substance-related effects.
Information on 1,2,4-trimethylbenzene	Assessment of repeated dose toxicity: Repeated oral uptake of the substance did not cause substance-related effects. Investigations using experimental animals show that the material can cause lung tissue changes following inhalation.

Genetic toxicity: This product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on sethoxydim	Assessment of carcinogenicity: In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.
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Reproductive toxicity: The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on sethoxydim	Assessment of teratogenicity: Causes developmental effects in animals at high, maternally toxic doses.
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Other information: Misuse can be harmful to health.

Symptoms of Exposure: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

Medical conditions aggravated by overexposure: Existing dermatitis may be aggravated by exposure.

12. ECOLOGICAL INFORMATION

Toxicity:

Aquatic toxicity:	There is a high probability that the product is not acutely harmful to fish. Acutely harmful for aquatic invertebrates. Very toxic (acute effect) to aquatic plants.
Toxicity to fish:	LC50 (96 h) 43 – 63 mg/l, <i>Oncorhynchus mykiss</i> LC50 (96 hr) 19,375 mg/l, <i>Cyprinodon variegatus</i>
Aquatic invertebrates:	EC50 (48 H) 18,5 mg/l, <i>Daphnia magna</i> EC50 (96 h) 4.429 mg/l, <i>Mysidopsis bahia</i>
Toxicity to fish:	
Information on sethoxydim	LC50 (96 h) 3.5 mg.l, <i>Cyprinodon variegatus</i>
Aquatic invertebrates:	
Information on sethoxydim	EC50 (96 h) 0.8 mg/l, <i>Mysidopsis bahia</i>
Aquatic plants	
Information on sethoxydim	No observed effect concentration (21 d) 0.1 mg/l (growth rate), aquatic plant (static) EC50 (21d) 03 mg/l (growth rate), aquatic plant (static)
Assessment of terrestrial toxicity:	With high probability not acutely harmful to terrestrial organisms, Acute toxic to honeybees.
Other terrestrial non-mammals	
Information on sethoxydim	LD50 > 10 ug/bee, <i>Apis mellifera</i> LC50, <i>Anas platyrhynchos</i>

Persistence and degradability:

Elimination information	Not readily biodegradable (by OECD criteria)
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Bioaccumulative potential

Assessment bioaccumulation potential: This product has not been tested. The statement has been derived from the properties of the individual components.

Information on sethoxydim

Mobility in soil

Assessment transport between environmental compartments: This product has not been tested The statement has been derived from the properties of the individual components.

Information on sethoxydim Adsorption to solid soil phase is not expected.

Additional information

Other ecotoxicological advice: The ecological data given are those of the active ingredient. Do not release into natural waters.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes:	Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the hazardous Waste representative at the nearest EPA Regional Office for guidance.
Container disposal:	Nonrefillable Container. DO NOT reuse or refill this container. If empty: Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
RCRA:	This product is not regulated by RCRA.

14. TRANSPORT INFORMATION

Land Transport

DOT (Department of Transportation) Not classified has a dangerous good under transport regulations

Proper Shipping Name: Compounds, Tree or Weed Killing (Herbicide), Liquid.
NMFC Item 50320, LTL Class 60

Sea Transport

IMDG

Hazard Class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Marine pollutant: Yes
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S, (contains Solvent Naphtha)

Air Transport

(IATA / ICAO)

Hazard Class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (contains Solvent Naphtha)

Further information:

Dot: Combustible liquid, only regulated in receptacles exceeding 119 gallons; not shipped as dangerous goods in receptacles less than 120 gallons.

15. REGULATORY INFORMATION

Federal Regulations

Registration status:

Crop Protection Chemical TSCA, US released / exempt
Chemical TSCA, US blocked / not listed

EPCRA 311/312 (Hazard categories) Acute; Chronic; Fire

EPCRA 313:

<u>CAS Number</u>	<u>Chemical Name</u>
91-20-3	naphthalene
95-63-6	1,2,4-trimethylbenzene
74051-80-2	Sethoxydim

CERCLA (RQ)

100 Lbs

<u>CAS Number</u>	<u>Chemical Name</u>
91-20-3	naphthalene

State Regulations

State RTK

	<u>CAS Number</u>	<u>Chemical Name</u>
NJ	70451-80-2	Sethoxydim
MA, NJ, PA	64742-94-5	solvent naphthalene
MA, NJ, PA	91-20-3	naphthalene

California Proposition 65:

ATTENTION: This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

NFPA Hazard Codes

Health: 1 Fire: 2 Reactivity: 1 Special:

Labeling requirements under FIFRA:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets (SDS), and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

WARNING

Causes substantial but temporary eye injury.
HARMFUL IF SWALLOWED.
KEEP OUT OF REACH OF CHILDREN
KEEP OUT OF REACH OF DOMESTIC ANIMALS
Avoid contact with the skin, eyes or clothing.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION
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Issue Date:
27-April-2015

Revision Date:
3-Mar-2015 (BASF)

Revision Note:
New SDS – GHS Classification

Important:

While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that products, designs, data or information may be used without infringing the intellectual property rights of others. In no case, shall the descriptions, information, data or designs provided be considered part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by our company hereunder are given gratis and we assume no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.

Grass Getter® is a registered trademark of Lawn and Garden Products, Inc.

End of Safety Data Sheet