

# Groom® PGR

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Date of issue: 05/19/2015

Version: 1.0

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Groom® PGR

**Synonyms:** Trinexapac-ethyl

**Other means of identification:** EPA Reg. No. 83070-4

#### 1.2. Intended Use of the Product

**Use of the substance/mixture:** Plant Growth Regulator

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Manufacturer

Advan LLC

2525 Meridian Parkway, Suite 350

Durham, NC 27713

T 919-226-1195

#### 1.4. Emergency Telephone Number

**Emergency Number** : (800) 424-9300 CHEMTREC (transportation and spills) (800) 900-4044 Poison Control Center (human health) (800) 345-4735 ASPCA (animal health)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### Classification (GHS-US)

Specific Target Organ Toxicity: Repeated Category 2

Specific Target Organ Toxicity: Drowsiness Category 3 Eye Damage/Irritation:

Category 2A

Flammable Liquid: Category 4

Full text of H-phrases: see section 16

#### 2.2. Label Elements

##### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

: Warning

##### Hazard Statements (GHS-US)

: Combustible liquid

Causes serious eye irritation

May cause drowsiness or dizziness

May cause damage to organs through prolonged or repeated exposure

##### Precautionary Statements (GHS-US)

: Keep away from heat, sparks, open flames, hot surfaces. No smoking.

Wear protective gloves, protective clothing, eye protection.

In case of fire: Use dry chemical, foam or CO2

for extinction. Store in a well-ventilated place.

Keep cool.

Do not breathe mist, vapors, spray.

Wash hands and face thoroughly

after handling. Use only outdoors

or in a well-ventilated area.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice.

Call a poison center, doctor or Chemtrec if you feel unwell.

Store locked up.

Dispose of contents and container in accordance with local regulations.

## 2.3. Other Hazards

Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

## 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product Identifier	%
Trinexapac-ethyl	(CAS No) 95266-40-3	11.3
TetrahydrofurfurylAlcohol	(CAS No) 97-99-4	<50

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area.

### 4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Drowsiness or dizziness

Respiratory irritation

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable/Unsuitable Extinguishing Media:** Dry chemical, foam or carbon dioxide. If water is used, dike and collect runoff. Use extinguishing media appropriate for surrounding fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Combustible liquid.

**Explosion Hazard:** Product is not explosive. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.

**Reactivity:** During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

### 5.3. Advice for Firefighters

**Firefighting Instructions:** Exercise caution when fighting any chemical fire.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection. Wear full protective clothing and self-contained breathing apparatus. Evacuate non-essential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses. De-contaminate equipment or materials involved in pesticide fires.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Handle in accordance with good industrial hygiene and safety practice.

#### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

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**Emergency Procedures:** Evacuate unnecessary personnel. Evacuate unnecessary personnel.

## 6.1.2. For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection. Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Ventilate area.

## 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

## 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain and collect as any solid.

**Methods for Cleaning Up:** Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

## 6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Hygiene Measures:** Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

**Incompatible Products:** None

**Storage Area:** Store locked up.

### 7.3. Specific End Use(s) Plant Growth Regulator

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

Chemical Name	OSHA PEL	ACGIH TLV	other	Source
Tetrahydrofurfuryl Alcohol	Not Established	Not Established	0.5 ppm TWA	AIHA
Trinexapac-Ethyl	Not Established	Not Established	10 mg/mS TWA	Syngenta

### 8.2. Exposure Controls

#### Appropriate Engineering Controls

: Use effective engineering controls to comply with occupational exposure limits (if applicable).

#### Personal Protective Equipment

: Protective goggles. Gloves. Dust/aerosol mask.



#### Hand Protection

: Wear chemically resistant protective gloves.

#### Eye Protection

: Chemical goggles or safety glasses.

#### Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

#### Other Information

: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

**Physical State**

: Liquid

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<b>Appearance</b>	: Amber
<b>Odor</b>	: Odorless
<b>Odor Threshold</b>	: No data available
<b>pH</b>	: 3.63
<b>Evaporation Rate</b>	: No data available
<b>Melting Point</b>	: Not applicable
<b>Freezing Point</b>	: Not applicable
<b>Boiling Point</b>	: No data available
<b>Flash Point</b>	: 170°F
<b>Auto-ignition Temperature</b>	: No data available
<b>Decomposition Temperature</b>	: No data available
<b>Flammability (solid, gas)</b>	: Combustible liquid
<b>Vapor Pressure</b>	: 1.6 x 10 <sup>-5</sup> torr @25°C (Trinexapac-ethyl)
<b>Relative Vapor Density at 20 °C</b>	: No data available
<b>Relative Density</b>	: 1.0698 g/cm <sup>3</sup> @20°C
<b>Solubility</b>	: 10.2 g/l@25°C (Trinexapac-ethyl)
<b>Partition Coefficient: N-Octanol/Water</b>	: No data available
<b>Viscosity</b>	: No data available

### 9.2. Other Information

No data available

## SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity:** Hazardous reactions will not occur under normal conditions.
- 10.2. **Chemical Stability:** Product is stable.
- 10.3. **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. **Conditions to Avoid:** None known.
- 10.5. **Incompatible Materials:** None known.
- 10.6. **Hazardous Decomposition Products:** None known.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Toxicological Effects

**Acute Toxicity:** Dermal, Inhalation

**Symptoms of exposure:** Eye irritation, Drowsiness or dizziness, Respiratory irritation

**Delayed, immediate and chronic effects of exposure:** Eye irritation, Drowsiness or dizziness, Respiratory system effects

**Numerical measures of toxicity (acute toxicity/irritation studies (end-use product))**

Groom® PGR	
Oral (LD50 Rat)	> 5050 mg/kg body weight
Dermal (LD50 Rabbit)	> 2020 mg/kg body weight
Inhalation (LC50 Rat)	> 2.75 m/l air - 4 hours
Eye Contact (Rabbit)	Moderately Irritating
Skin Contact (Rabbit)	Non-Irritating
Skin Sensitization (Guinea Pig)	Not a Sensitizer

### Tetranydrofurfuryl Alcohol

Acute exposure causes slight irritation of the skin. Prolonged exposure may cause mild nervous system effects, liver and kidney damage.

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Suspected of causing cancer.

Trinexapac-ethyl (95266-40-3)	
IARC group	No
National Toxicology Program (NTP) Status	No

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<b>Tetrahydrofurfuryl Alcohol (97-99-4)</b>	
<b>IARC group</b>	No
<b>National Toxicology Program (NTP) Status</b>	No

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Liver, kidney, brain (dogs) effects at high doses (>5000 ppm).

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General** : Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

<b>Trinexapac-ethyl (95266-40-3)</b>	
<b>LC<sub>50</sub> Fish (Rainbow Trout)</b>	65.7 ppm (96-hour)
<b>EC<sub>50</sub> Daphnia</b>	>142.5 ppm (48-hour)
<b>EC<sub>50</sub> Green Algae</b>	<1.4 ppm (5-day)
<b>LD<sub>50</sub> Bird (Mallard Duck)</b>	>2000 mg/kg (14-day)

### 12.2. Persistence and Degradability

<b>Groom® PGR</b>	
<b>Persistence and Degradability</b>	Not established.
<b>Trinexapac-ethyl (95266-40-3)</b>	
<b>Persistence and Degradability</b>	Not persistent in soil or water.

### 12.3. Bioaccumulative Potential

<b>Groom® PGR</b>	
<b>Bioaccumulative Potential</b>	Not established.
<b>Trinexapac-ethyl (95266-40-3)</b>	
<b>Bioaccumulative Potential</b>	Low bioaccumulation potential.

**12.4. Mobility in Soil:** Moderate mobility of trinexapac-ethyl in soil.

### 12.5. Other Adverse Effects

**Other Information** : Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Do not reuse product containers. Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Ecology – Waste Materials:** Hazardous waste due to toxicity.

## SECTION 14: TRANSPORT INFORMATION

In Accordance With ICAO/IATA/IMDG/DOT

### 14.1. UN Number

**UN-No.(DOT)** : 1993  
**DOT NA no.** UN1993

### 14.2. UN Proper Shipping Name

**Proper Shipping Name (DOT)** : Combustible liquid, N.O.S. (Tetrahydrofurfuryl Alcohol)  
**Department of Transportation (DOT)** : 3  
**Hazard Classes**  
**Packing Group (DOT)** : PG III

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## 14.3. Additional Information

### Transport by Ground (NAFTA)

**Ground Transportation in NAFTA Region** : Containers < 119 gallons cap: Not regulated  
Containers > 119 gallons cap:  
Proper Shipping Name: Combustible liquid, N.O.S.(Tetrahydrofurfuryl Alcohol)  
Hazard Class: Class 3  
Identification Number: NA1993  
Packing Group: PG III

### Transport by Sea

**Water Transportation** : Containers < 119 gallons cap: Not regulated  
Containers > 119 gallons cap:  
Proper Shipping Name: Combustible liquid, N.O.S.(Tetrahydrofurfuryl Alcohol)  
Hazard Class: Class 3  
Identification Number: NA1993  
Packing Group: PG III

### Transportation by Air

**Air Transportation** : Containers < 119 gallons cap: Not regulated  
Containers > 119 gallons cap: Prohibited

## SECTION 15: REGULATORY INFORMATION

### 15.1 US Federal Regulations

Groom® PGR	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Fire hazard
EPA FIFRA Pesticide Product Notice	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. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
EPA FIFRA Signal Word	Caution
EPA FIFRA Hazard Statements	Harmful if absorbed through skin, swallowed or inhaled. Causes moderate eye irritation.
EPA FIFRA Precautionary Statements	Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing.
Trinexapac-ethyl (95266-40-3)	
SARA Section 313 - Emission Reporting	None
CERCLA/SAR 304 Reportable Quantity (RQ)	None
RCRA Hazardous Waste Classification (40 CFR 261)	Not applicable
TSCA Status	Exempt from TSCA. FIFRA regulated.

### 15.2 US State Regulations

Trinexapac-ethyl (95266-40-3)	
U.S. - California - Proposition 65 - Carcinogens List	This product <b>does not</b> contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 05/19/2015

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)