

SAFETY DATA SHEET

Groom® PGR



Section 1. Identification

GHS product identifier : Groom® PGR
Chemical name : Trinexapac-ethyl
Product code : Not available
Other means of identification : Not available
EPA Registration Number : 93051-11
EPA Signal Word : CAUTION
Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Herbicide.
Supplier's details : RightLine LLC
950 Falcon Drive
Malden, MO 63863, USA
Tel: 770-335-3015

Emergency telephone number (with hours of operation) : Call (800) 222-1222 (Poison Control Center) or (800) 424-9300 CHEMTREC

Section 2. Hazards Identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture :
EYE IRRITATION - Category 2A
STOT - REPEATED EXPOSURE – Category 2
STOT - SINGLE EXPOSURE – Category 3
AQUATIC HAZARD (ACUTE) – Category 2
FLAMMABLE LIQUIDS – Category 4

GHS label elements



Hazard pictograms :

Signal word : Warning

Hazard statements : H319 - Causes serious eye irritation.
H336 – May cause drowsiness or dizziness.
H373 – May cause damage to organs through prolonged or repeated exposure.
H227 – Combustible liquid
H401 – Toxic to aquatic life.

Precautionary statements

Prevention : P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260+P271 – Do not breathe mist/spray. Use only outdoors or with adequate ventilation.

P264+P265 – Wash hands and exposed skin thoroughly after handling. Do not touch eyes.

P280 – wear eye protection/face protection.

P273 – Avoid release to the environment not in accordance with the product label.

- 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.
 P304+P340+P319 – IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help if you feel unwell.
 P337+P317 – If eye irritation persists: Get medical help.
 P319 – Get medical help if you feel unwell.
 P370+P378 – In case of fire: Use appropriate media listed in Section 5 of this document to extinguish.
- Storage** : P403+P233+P405 – Store in a well-ventilated place. Keep container tightly closed. Store locked up.
- Disposal** : P501 – Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazards not otherwise classified** : None known.

Section 3. Composition/Information on Ingredients

Substance/mixture : Mixture

Chemical name : Cyclohexanecarboxylic acid, 4-(cyclopropylhydroxymethylene)-3,5-dioxo-, ethyl ester

Ingredient name	%	CAS number
Trinexapac-ethyl	11.3	95266-40-3
Tetrahydrofurfuryl Alcohol	<50	97-99-4

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

- Skin contact** : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- Eye contact** : Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
- Ingestion** : Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.
- Inhalation** : Move person to fresh air. If person is not breathing, call a poison control, then give artificial respiration, preferably by mouth to mouth. Call a poison control center or doctor for further treatment advice.

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

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : If a large amount has been ingested, lavage stomach. An aqueous suspension of activated charcoal can be given to absorb remaining toxicant. Treat symptomatically.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall 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

Extinguishing media

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

Unsuitable extinguishing Media

: None known.

Specific hazards arising from the chemical

: 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.

Hazardous thermal decomposition products

: None known.

Special protective actions for fire-fighters

: 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 equipment for fire-fighters

: Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency Personnel

: Use appropriate personal protection equipment (PPE).

For emergency responders

: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Keep upwind of spill. Ventilate area of leak or spill.

Environmental precautions

: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. Spills or discharge to natural waterways is likely to kill aquatic organisms.

Methods and materials for containment and cleaning up

Spill : 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.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures : Keep out of reach of children. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing. See Section 8.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking, chewing gum, using tobacco, or using the toilet. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

: Store in a cool, dry place and avoid excess heat. Do not store below 0°F. If crystals form, store above 70°F, shaking periodically until crystals are dissolved.

Section 8. Exposure Controls/Personal Protection

Control parameters Occupational exposure limits

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

Appropriate engineering Controls

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

Environmental exposure Controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures : After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

Eye/face protection : Chemical goggles or safety glasses.

Skin protection

Hand and Body protection : Wear chemically resistant protective gloves.

Other skin protection : Applicators and other handlers must wear long-sleeved shirt and long pants, chemical-resistant gloves (such as nitrile, butyl, neoprene, or barrier laminate), and shoes plus socks

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

Section 9. Physical and Chemical Properties

Appearance

Physical state : Liquid.

Color : Amber

Odor : Odorless

Odor threshold : Not available.

pH : 3.63

Melting point : Not available.

Boiling point : Not available.

Flash point	: 170°F (76.7°C)
Evaporation rate	: Not available.
Flammability (liquid)	: Combustible liquid
Vapor Pressure	: 1.6 x 10 ⁻⁵ torr @25°C (Trinexapac-ethyl)
Relative Density	: 1.0698 g/cm ³ @ 20°C
Solubility	: 10.2 g/l @ 25°C (Trinexapac-ethyl)
Partition Coefficient	: Not available.
Viscosity	: Not available.
Lower and upper explosive (flammable) limits	: Not available.

Section 10. Stability and Reactivity

Reactivity	: Hazardous reactions will not occur under normal conditions.
Chemical stability	: Product is stable.
Possibility of hazardous reactions	: Hazardous polymerization will not occur.
Conditions to avoid	: None known.
Incompatible materials	: None known.
Hazardous decomposition Products	: None known.

Section 11. Toxicological Information

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

Information on toxicological effects Acute toxicity

Product	Result	Species	Dose	Exposure
Groom® PGR	LD50 Oral	Rat	>5050 mg/kg	-
	LD50 Dermal	Rabbit	>2020 mg/kg	-
	LC50 Inhalation	Rat	>2.75 mg/l	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Groom® PGR	Skin – Non irritating.	Rabbits	-	-	-
	Eye – Moderately irritating	Rabbits	-	-	-

Tetrandrofurfuryl Alcohol

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

Sensitization

Not a sensitizer to guinea pig.

Mutagenicity

There is no data available.

Carcinogenicity

Not expected to be carcinogenic.

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

Liver, kidney, brain (dogs) effects at high doses (>5000 ppm).

Specific target organ toxicity (repeated exposure)

Not classified.

Aspiration hazard

There is no data available.

Information on the likely

routes of exposure : Dermal contact. Eye contact. Ingestion.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

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

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Long term exposure

Potential immediate effects : No known significant effects or critical hazards.

Potential delayed effects : No known significant effects or critical hazards.

Potential chronic health effects

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.

Section 12. Ecological Information**Toxicity**

Product/ingredient name	Result	Species	Exposure
Trinexapac-ethyl	Acute LC50 65.7 ppm Freshwater Acute EC50 >142.5 ppm Acute EC50 <1.4 ppm Acute dietary LD50 >2000 mg/kg	Rainbow Trout – Oncorhynchus mykiss Daphnia Magna Green Algae -- Chlamydomon Mallard duck	96 hours 48 hours 5-days 14-days

Persistence and degradability

Not established.

Bioaccumulative potential

Low bioaccumulation potential.

Mobility in soil

Moderate mobility of trinexapac-ethyl in soil.

Section 13. Disposal Considerations

Disposal methods : Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Not listed	-	-	-

Section 14. Transport Information

	DOT Classification	IMDG	IATA
UN number	NA1993	Not regulated	Not regulated
UN proper shipping name	COMBUSTIBLE LIQUID, N.O.S. (Tetrahydrofurfuryl Alcohol).		
Transport hazard class(es)	Comb. liq.		
Packing group	III		
Environmental hazards	No		

DOT-RQ Details : Not available **AERG** : Not available

Additional information

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

IMDG : This product is not regulated as a dangerous good.

IATA : This product is not regulated as a dangerous good.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Section 15. Regulatory Information

U.S. Federal regulations : **United States inventory (TSCA 8b):** Not determined.
Clean Water Act (CWA) 311: Not determined

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

**Clean Air Act Section 602
Class II Substances** : Not listed

**DEA List I Chemicals
(Precursor Chemicals)** : Not listed

**DEA List II Chemicals
(Essential Chemicals)** : Not listed

SARA 302/304

Composition/information on ingredients

Name	EHS	SARA 302 TPQ		SARA 304 RQ	
		(lbs)	(gallons)	(lbs)	(gallons)
Not available	-	-	-	-	-

SARA 304 RQ : Not listed.

SARA 311/312

Classification : Immediate (acute); Fire hazard

Composition/information on ingredients

Name	Classification
Not listed	-

SARA 313

	Product name	CAS number
Form R - Reporting requirements	None	N/A
Supplier notification	None	N/A

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

California Prop. 65

This product does not contain any chemical known to the State of California to cause cancer or other reproductive harm.

Section 16. Other Information

History

Date of issue mm/dd/yyyy : 06/06/2024

Date of previous issue : N/A

Version : 1.0

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.