Material Safety Data Sheet



Cutless MEC Turf Growth Regulator

Product and company identification

: Cutless MEC Turf Growth Regulator **Product name**

EPA Registration Number : 67690-51

Material uses Turf growth regulator. Supplier/Manufacturer SePRO Corporation

11550 North Meridian Street

Suite 600

Carmel, IN 46032 U.S.A. Tel: 317-580-8282 Toll free: 1-800-419-7779 Fax: 317-428-4577

Monday - Friday, 8am to 5pm E.S.T.

www.sepro.com

Responsible name : KMK Regulatory Services inc.

In case of emergency : INFOTRAC - 24-hour service 1-800-535-5053

Hazards identification

Physical state : Liquid. [Clear.]

Odor : Typical of organic solvents.

: While this material is not considered hazardous by the OSHA Hazard Communication **OSHA/HCS** status

> Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available

for employees and other users of this product.

Emergency overview : CAUTION!

MAY BE HARMFUL IF SWALLOWED.

May be harmful if swallowed. Do not ingest. Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

: Dermal contact. Eye contact. Inhalation. Ingestion. Routes of entry

Potential acute health effects

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be

delayed following exposure.

Ingestion : May be harmful if swallowed.

Skin : No known significant effects or critical hazards. : No known significant effects or critical hazards. Eves

Potential chronic health effects

Chronic effects : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. : 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 Fertility effects** : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation : No specific data. Ingestion : No specific data.

Skin Adverse symptoms may include the following:

irritation redness

Eyes : Adverse symptoms may include the following:

pain or irritation watering

redness : None known.

aggravated by over-

exposure

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Medical conditions



See toxicological information (section 11)

Composition/information on ingredients

United States					
Name	CAS number	%			
Active ingredient: 5-pyrimidinemethanol, alpha-(1-methylethyl)-alpha-(4- (trifluoromethoxy)phenyl)-	56425-91-3	16			
Inert ingredient: Proprietary Alcohol	Proprietary	30 - 60			

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.

First aid measures

Eye contact : Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.

Skin contact : Wash with soap and water. Get medical attention if symptoms occur. Inhalation : Move exposed person to fresh air. If not breathing, if breathing is irregular or if

respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control center immediately.

: 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Fire-fighting measures

Flammability of the product : No specific fire or explosion hazard.

Extinguishing media

Notes to physician

Protection of first-aiders

Ingestion

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable None known.

Hazardous thermal : Decomposition products may include the following materials: carbon dioxide decomposition products

carbon monoxide nitrogen oxides

halogenated compounds

Special protective Fire-fighters should wear appropriate protective equipment and self-contained breathing equipment for fire-fighters apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Accidental release measures

Personal precautions : Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and **Environmental precautions** sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Methods for cleaning up

: Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency

contact information and section 13 for waste disposal.

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Spill



7. Handling and storage

Handling

: Put on appropriate personal protective equipment (see section 8). 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 and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures

: Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

Engineering measures

: Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Hygiene measures

: Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Personal protection

Applicators should refer to the product label for personal protective clothing and equipment.

Respiratory

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: Wear an appropriate NIOSH approved respirator if concentration levels exceed the safe exposure limits.

Hands

: Use gloves appropriate for work or task being performed. Recommended: Natural rubber (latex).

Eyes

: Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.

Skin

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Physical state : Liquid. [Clear.]

Color : Golden. Pale yellow.

Odor : Typical of organic solvents.

pH : 5.15 Relative density : 0.99

Viscosity: Kinematic: 1.365 cm²/s (136.5 cSt)

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10. Stability and reactivity

Chemical stability

: The product is stable.

Conditions to avoid

: No specific data.

Materials to avoid

: Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Hazardous polymerization

: Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Proprietary Alcohol	LD50 Dermal	Rabbit	1970 mg/kg	-
	LD50 Dermal	Rat	>3000 mg/kg	-
	LD50 Oral	Rat	3730 mg/kg	-
5-pyrimidinemethanol, alpha-(1-methylethyl)-alpha-(4-(trifluoromethoxy)phenyl)-	LC50 Inhalation Vapor	Rat	1100 mg/m3	4 hours
	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	709 mg/kg	-
Cutless MEC Turf Growth Regulator	LC50 Inhalation Vapor	Rat	>2.01 mg/l	4 hours
	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
	Dermal	Rabbit	Not sensitizing	
	Eyes	Rabbit	Moderate irritant	
	Dermal	Rabbit	Slight irritant	

Chronic toxicity : No specific data.

12. Ecological information

Environmental effects

: Not established

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Proprietary Alcohol	Acute LC50 10 mg/L Fresh water	Fish - Lepomis macrochirus - 0.1 g	96 hours

13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Empty containers or liners may retain some product residues. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

DOT/IMDG/IATA : Not regulated.

15. Regulatory information

HCS Classification

: Not regulated.

U.S. Federal regulations

: United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

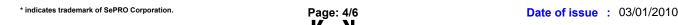
SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Proprietary Alcohol

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Proprietary Alcohol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.



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Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

Clean Air Act Section 112(b) Hazardous Air **Pollutants (HAPs)**

: Not listed

Clean Air Act Section 602 **Class I Substances**

Clean Air Act Section 602

: Not listed

: Not listed

Class II Substances

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

State regulations

: Connecticut Carcinogen Reporting: None of the components are listed.

Connecticut Hazardous Material Survey: None of the components are listed.

Florida substances: None of the components are listed.

Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act: None of the components are

listed.

Louisiana Reporting: None of the components are listed. Louisiana Spill: None of the components are listed. Massachusetts Spill: None of the components are listed.

Massachusetts Substances: The following components are listed: Proprietary Alcohol

Michigan Critical Material: None of the components are listed.

Minnesota Hazardous Substances: None of the components are listed. New Jersey Hazardous Substances: None of the components are listed.

New Jersey Spill: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed. New York Acutely Hazardous Substances: None of the components are listed. New York Toxic Chemical Release Reporting: None of the components are listed. Pennsylvania RTK Hazardous Substances: The following components are listed:

Proprietary Alcohol

Rhode Island Hazardous Substances: None of the components are listed.

California Prop. 65

No products were found.

International regulations

International lists

: Australia inventory (AICS): Not determined.

China inventory (IECSC): Not determined.

Japan inventory: Not determined. Korea inventory: Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): Not determined.

Chemical Weapons

Convention List Schedule I

Chemicals

: Not listed

Chemical Weapons Convention List Schedule II

Chemicals

: Not listed

Chemical Weapons Convention List Schedule

III Chemicals

: Not listed

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16. Other information

Information System (U.S.A.)

Label requirements : MAY BE HARMFUL IF SWALLOWED.

Hazardous Material :



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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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.



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