# **SAFETY DATA SHEETa**



# **Cutless® MEC Turf Growth Regulator**

Section 1. Identification		
GHS product identifier	: Cutless <sup>®</sup> MEC Turf Growth Regulator	
Other means of identification	: Not available.	
EPA Registration No.	: 67690-51	
Relevant identified uses o	<u>f the substance or mixture</u>	
Turf growth regulator.		
Supplier's details	: 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: 317-580-8290 Monday - Friday, 8am to 5pm E.S.T. www.sepro.com	
Emergency telephone number (with hours of operation)	: INFOTRAC - 24-hour service 1-800-535-5053	

The following recommendations for exposure controls and personal protection are intended for the manufacture, formulation and packaging of this product. For applications and/or use, consult the product label. The label directions supersede the text of this Safety Data Sheet for application and/or use.

### 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	: ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
<u>GHS label elements</u> Hazard pictograms	
Signal word	: Warning
Hazard statements	<ul> <li>H332 - Harmful if inhaled.</li> <li>H319 - Causes serious eye irritation.</li> <li>H315 - Causes skin irritation.</li> <li>H335 - May cause respiratory irritation.</li> </ul>

#### **Precautionary statements**





# Section 2. Hazards identification

Prevention	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P261 - Avoid breathing vapor.</li> <li>P264 - Wash hands thoroughly after handling.</li> </ul>
Response	<ul> <li>P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.</li> <li>P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.</li> <li>P332 + P313 - If skin irritation occurs: Get medical attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical attention.</li> </ul>
Storage	: P405 - Store locked up.
Disposal	<ul> <li>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Hazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	

Ingredient name	%	CAS number
Proprietary ingredient 1 Proprietary ingredient 2	30 - 60 30 - 60	-
Flurprimidol		- 56425-91-3

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

### **Description of necessary first aid measures**

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.
Skin contact	: Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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Section 4. First a	aid measures
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms	s/effects, acute and delayed
Potential acute health eff	ects
Eye contact	: Causes serious eye irritation.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes skin irritation.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/syn	nptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No known significant effects or critical hazards.
Indication of immediate m	edical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>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.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.

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# Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds
Special protective actions for fire-fighters	<ul> <li>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.</li> </ul>
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	action shall be taken involving any personal risk or without suitable to cuate surrounding areas. Keep unnecessary and unprotected pers ring. Do not touch or walk through spilled material. Avoid breathin ride adequate ventilation. Wear appropriate respirator when ventila equate. Put on appropriate personal protective equipment.	onnel from g vapor or mist.
For emergency responders	ecialized clothing is required to deal with the spillage, take note of a ion 8 on suitable and unsuitable materials. See also the informatio rgency personnel".	5
Environmental precautions	d dispersal of spilled material and runoff and contact with soil, wate sewers. Inform the relevant authorities if the product has caused e tion (sewers, waterways, soil or air). May be harmful to the environ dentally released in large quantities.	nvironmental
Methods and materials for co	ent and cleaning up	
Spill	e leak if without risk. Move containers from spill area. Approach relind. Prevent entry into sewers, water courses, basements or confir ages into an effluent treatment plant or proceed as follows. Contain age with non-combustible, absorbent material e.g. sand, earth, verro maceous earth and place in container for disposal according to loc Section 13). Dispose of via a licensed waste disposal contractor.	ned areas. Wash n and collect niculite or al regulations

## Section 7. Handling and storage

### Precautions for safe handling

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Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid accidental release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.
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 and smoking. See also Section 8 for additional information on hygiene measures.

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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# Section 7. Handling and storage

Conditions for safe storage,	:	Store in accordance with local regulations. Store in original container protected from
including any		direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials
incompatibilities		(see Section 10) and food and drink. Store locked up. 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. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

	Ingredient name		Exposure limits		
ĺ	Proprietary ingredient 2 Flurprimidol		None. None.		
	ppropriate engineering ontrols		tilation. Use process enclosures, local exhaust ventilation or b keep worker exposure to airborne contaminants below any mits.		
	nvironmental exposure ontrols		or work process equipment should be checked to ensure ements of environmental protection legislation.		
<u>Ir</u>	dividual protection measures	5			
	Hygiene measures	eating, smoking and using t Appropriate techniques sho	face thoroughly after handling chemical products, before he lavatory and at the end of the working period. Ind be used to remove potentially contaminated clothing. If before reusing. Ensure that eyewash stations and safety rkstation location.		
I	Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.			
ŝ	Skin protection				
	Hand protection	worn at all times when hand necessary. Considering the during use that the gloves a noted that the time to break glove manufacturers. In the	bus gloves complying with an approved standard should be ling chemical products if a risk assessment indicates this is parameters specified by the glove manufacturer, check re still retaining their protective properties. It should be through for any glove material may be different for different case of mixtures, consisting of several substances, the cannot be accurately estimated.		
	Body protection		ent for the body should be selected based on the task being blved and should be approved by a specialist before		
	Other skin protection		ny additional skin protection measures should be selected formed and the risks involved and should be approved by a is product.		
ļ	Respiratory protection	appropriate standard or cert	otential for exposure, select a respirator that meets the ification. Respirators must be used according to a am to ensure proper fitting, training, and other important		



# Section 9. Physical and chemical properties

### Appearance

Physical state	Liquid. [Clear.]	
Color	Golden. Pale yellow.	
Odor	Typical of organic solvents.	
Odor threshold	Not available.	
рН	5.15 [ at 25C of a 1 in 100 dilution]	
Melting point	Not available.	
Boiling point	Not available.	
Flash point	Not applicable.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Lower and upper explosive (flammable) limits	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	1 g/mL at 20C	
Solubility	Not available.	
Solubility in water	Soluble.	
Partition coefficient: n- octanol/water	Not available.	
Auto-ignition temperature	Not applicable.	
Decomposition temperature	Not available.	
Viscosity	Kinematic (room temperature): 1.365 cm <sup>2</sup> /s (136.5 cSt)	
Flow time (ISO 2431)	Not available.	

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: 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.

# Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Cutless <sup>®</sup> MEC Turf Growth Regulator	LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral	Rabbit	>2.01 mg/L >5000 mg/kg >5000 mg/kg	4 hours - -

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Cutless <sup>®</sup> MEC Turf Growth Regulator	Skin - Moderate irritant Eyes - Moderate irritant	Rabbit Rabbit	-	-	-

Skin : Slightly irritating to the skin.

: Moderately irritating to eyes.

### Sensitization

Eyes

Product/ingredient name	Route of exposure	Species	Result					
Cutless <sup>®</sup> MEC Turf Growth Regulator	skin	Guinea pig	Not sensitizing					
Mutagenicity								
Conclusion/Summary :	Based on active in	gredients: Negative.						
<u>Carcinogenicity</u>								
Conclusion/Summary :	Based on active in	gredients: Negative.						
Reproductive toxicity								
Conclusion/Summary :	Based on active ingredients: Decreased fertility and fetal survival.							
<u>Feratogenicity</u>								
There is no data available.	s no data available.							
<u>Neurotoxicity</u>								
Conclusion/Summary :	: Based on active ingredients: No neurological effect up to 277 mg/kg/day.							
Immunotoxicity								
Conclusion/Summary :	Based on active ingredients: Negative.							
Specific target organ toxicity	<u>Specific target organ toxicity (single exposure)</u>							

Name	···· 5· 7	Route of exposure	Target organs
Proprietary ingredient 2	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

There is no data available.

### Aspiration hazard

There is no data available.

### Information on the likely : Dermal contact. Eye contact. Inhalation. Ingestion.

### routes of exposure

Potential acute health effectsEye contact: Causes serious eye irritation.Inhalation: Harmful if inhaled. May cause respiratory irritation.Skin contact: Causes skin irritation

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Skin contact : Causes skin irritation.



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# Section 11. Toxicological information

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Ingestion	:	No known significant effects or critical hazards.		
Symptoms related to the phy	sic	al, chemical and toxicological characteristics		
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness		
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing		
Skin contact	:	Adverse symptoms may include the following: irritation redness		
Ingestion	:	No known significant effects or critical hazards.		
Delayed and immediate effec	ts	and also chronic effects from short and long term exposure		
Delayed and immediate effects and also chronic effects from short and long term exposureShort term exposurePotential immediate: No known significant effects or critical hazards.				
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 effe	pain or irritation watering rednessnalation: Adverse symptoms may include the following: respiratory tract irritation coughingin contact: Adverse symptoms may include the following: irritation rednessjestion: Adverse symptoms may include the following: irritation rednessjestion: No known significant effects or critical hazards.ayed and immediate effects and also chronic effects from short and long term exposure ort term exposureotential immediate: No known significant effects or critical hazards.ffects: No known significant effects or critical hazards.otential delayed effects: No known significant effects or critical hazards.ing term exposure otential immediate: No known significant effects or critical hazards.ing term exposure otential delayed effects: No known significant effects or critical hazards.ing term exposure otential delayed effects: No known significant effects or critical hazards.ing term exposure otential chronic health effects: No known significant effects or critical hazards.ing term exposure otential chronic health effects: No known significant effects or critical hazards.ing term exposure otential chronic health effects: No known significant effects or critical hazards.ing term exposure otential chronic health effects: No known significant effects or critical hazards.ing term exposure otential chronic health effects: No known significant effects or critical hazards.ing term exposure otential chronic health effects: No known significant effects or critical hazards. </th			
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.		
<b>Developmental effects</b>	:	No known significant effects or critical hazards.		
Fertility effects	:	No known significant effects or critical hazards.		

### Numerical measures of toxicity

### Acute toxicity estimates

Ī	Route	ATE value
Ī	Inhalation (vapors)	30.56 mg/L

# Section 12. Ecological information

### **Toxicity**



# Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
Flurprimidol	EC50 12.8 mg/L	Algae - Alga-Green	72 hours
	EC50 100 mg/L	Algae - Algal growth	72 hours
	EC50 >5.76 mg/L	Algae - Blue-Green Alga -Growth	96 hours
	-	inhibition (Anabaena flos-aquae)	
	EC50 0.0212 mg/L	Aquatic plants - Duckweed (Lemna gibba)	14 days
	EC50 140 mg/L	Daphnia - Daphnia magna	48 hours
	EC50 1.8 mg/L	Micro-organism - Diatom (Navicula pelliculosa)	96 hours
	EC50 0.335 mg/L	Micro-organism - Diatom (Skeletonema costatum)	96 hours
	LC50 17.2 mg/L	Fish - Bluegill (Lepomis macrochirus)	96 hours
	LC50 75 mg/Ľ	Fish - Rainbow trout (Oncorhynchus mykiss)	96 hours

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Flurprimidol	-	-	Readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Proprietary ingredient 2	2.9	25.33	low
Flurprimidol	3.34	-	low

### Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal
-	of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste
	disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste
	packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe
	way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid
	dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

# Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

**AERG** : Not applicable.

**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	5	
U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined	
	United States inventory (TSCA 8b): 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	
<u>SARA 302/304</u>		
Composition/information	on ingredients	
No products were found.		
SARA 304 RQ	: Not applicable.	
<u>SARA 311/312</u>		
Classification	: Immediate (acute) health hazard	
Composition/information on ingredients		

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## Section 15. Regulatory information

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
	Yes.	No.	No.	Yes.	No.
	No.	No.	No.	Yes.	No.

### <u>SARA 313</u>

There is no data available.

### State regulations

Massachusetts	: The following components are listed: Proprietary ingredient 2
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
B	The following energy of the set lists de Description is the disease disease of

Pennsylvania

: The following components are listed: Proprietary ingredient 2

### California Prop. 65

No products were found.

### Section 16. Other information

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

Health: 1 Flammability: 0 Instability: 0

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

### Procedure used to derive the classification

Classification	Justification
SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A	On basis of test data On basis of test data On basis of test data Calculation method

<u>History</u>

Date of issue mm/dd/yyyy	: 08/15/2017
Date of previous issue	: 07/15/2015
Version	: 5
Prepared by	: KMK Regulatory Services Inc.

#### 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