

SECTION 1: IDENTIFICATION

Product Name: PERISCOPE™
EPA Reg. No. 62097-45-534
Recommended Use: Plant Growth Regulator; See product label for a complete list of uses and use sites.
Restrictions on Use: See product label for any restrictions on the use of this product.
Chemical Name: Gibberellic Acid, Kinetin and Indole-3-butyric acid
Distributed by: GROWMARK INC
 1701 Towanda Ave
 Bloomington, IL 61701

FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: Pale yellow liquid with a very faint mild odor. Not anticipated to cause immediate acute effects upon short-term exposure.

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

This product does not meet the regulatory definition of a hazardous chemical under 29 CFR 1910.1200. However, good industrial hygiene practices should be used in the manufacture and handling of the product.

Signal Word: None required
Hazard Statement(s): No statements required
Precautionary Statement(s): **Prevention:** No statements required
Response: No statements required
Storage: No statements required.
Disposal: No statements required.

The following percentage of the mixture consists of components with unknown hazards regarding the acute toxicity: 0%

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Citric acid	77-92-9	0.1
Butylated hydroxytoluene	128-37-0	0.1
Gibberellic acid	77-06-5	0.004
Indole-3-butyric acid	133-32-4	0.005
Kinetin	525-79-1	0.01

*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES

IF IN EYES:	Hold eye 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 eye. Call poison control center or doctor for treatment advice
IF ON SKIN OR CLOTHING:	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.
IF INHALED:	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice
IF SWALLOWED:	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 a poison control center or doctor. Do not give anything to an unconscious person

Most important symptoms/effects, acute and delayed: None known

SECTION 5: FIRE-FIGHTING MEASURES
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Suitable Extinguishing Media:	Water fog, foam, dry chemical, carbon dioxide (CO ₂), water spray
Unsuitable Extinguishing Media:	Water jet
Hazardous Combustion Products:	Thermal decomposition may include carbon, nitrogen compounds and aldehydes.
Special Protective Equipment & Precautions:	Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.
Hazards:	Unusual Fire & Explosion None known

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	See Section 8 for personal protection equipment.
Environmental Precautions:	Do not allow spilled product to enter sewers or waterways.
Methods for Containment:	Contain spilled product by diking area with sand or earth. Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop or sweep up material and place in a container for disposal. Do not place spilled material back in original container.
Methods for Clean-up:	
Other Information:	None known

SECTION 7: HANDLING AND STORAGE
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Handling:	RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND HANDLERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Ensure adequate ventilation during handling and use. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.
Storage:	Store in a secured area away from children, feed and food products. Store in original container only and in a cool, well-ventilated dry place above the minimum storage temperature.
Storage Temperature (Min/Max):	Not determined
Product Incompatibilities:	Strong acidic or alkaline solutions or oxidizing materials

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

COMPONENT	OSHA PEL	ACGIH TLV	NIOSH REL
Butylated hydroxytoluene			10mg/m ³

Engineering Controls:	Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.
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Respiratory Protection:	For most well-ventilated conditions, no respiratory protection should be needed. If airborne concentrations exceed permissible levels or if a pre-existing
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	respiratory condition exists, use a NIOSH approved air-purifying respirator with cartridges/canisters approved for general particulates.
Eye Protection:	Wear safety glasses. Contact lenses are not protective eye devices.
Protective Gloves:	None required.
Other Protective Clothing:	Wear long-sleeve shirt, long pants and shoes plus socks to prevent skin contact.
General Safety Measures:	Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale yellow liquid	Upper/Lower Flammability Limits:	Not determined
Odor:	Very faint mild	Vapor Pressure:	Not determined
Odor Threshold:	Not determined	Vapor Density:	Not determined
pH:	3.4 – 3.8	Relative Density:	1.035-1.039
Melting /Freezing Point:	Not determined	Solubility (water):	Soluble
Boiling Point/Range:	Approx 370°F (188°C)	Partition Coefficient:	Not determined
Flash Point:	> 212°F (>100°C) (closed cup)	Auto-ignition Temperature:	Not determined
Evaporation Rate:	Not determined	Decomposition Temperature:	Not determined
Flammability:	Not applicable	Viscosity:	Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	None known
Chemical Stability:	Stable under normal storage and handling conditions.
Possibility of Hazardous Reactions:	Will not occur
Conditions to Avoid:	High temperatures and sources of ignition
Incompatible Materials:	Strong acidic or alkaline solutions or oxidizing materials
Hazardous Decomposition Products:	Thermal decomposition may include carbon, nitrogen compounds and aldehydes.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Eye contact, Skin contact, Inhalation, Ingestion
Symptoms of Exposure:	No acute symptoms known
Oral LD₅₀:	>5000 mg/kg (Estimated based upon component data)
Dermal LD₅₀:	>5000 mg/kg (Estimated based upon component data)
Inhalation LC₅₀:	>5.0 mg/L (Estimated based upon component data)
Eye Irritation/Damage:	Not anticipated to cause eye irritation based upon component data.
Skin Corrosion/Irritation:	Not anticipated to cause skin irritation based upon component data.
Skin Sensitization:	Contains no skin sensitizing materials.

Chronic/Sub-chronic Toxicity:	No data available
Mutagenicity:	No data available
Reproductive Toxicity:	No data available
Neurotoxicity:	No data available
Target Organs:	No data available
Aspiration Hazard:	None
Carcinogenicity:	

Chemical Name	ACGIH	IARC	NTP	OSHA
None listed				

SECTION 12: ECOLOGICAL INFORMATION**ECOTOXICITY DATA:**

Fish Toxicity:	No data available
Aquatic Invertebrate Toxicity:	No data available
Aquatic Plant Toxicity:	No data available
Avian Toxicity:	No data available
Honeybee Toxicity:	No data available

ENVIRONMENTAL**EFFECTS:**

Persistence and Degradability:	No data available
Bioaccumulation:	No data available
Mobility:	No data available
Other Adverse Effects:	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:	Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.
Container Disposal:	Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations. See pesticide label for full instructions on container disposal.
RCRA Characteristics:	It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORTATION INFORMATION

DOT (Ground):	This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.
IMDG (Sea):	This product is not regulated by the IMDG as a hazardous material for shipment by sea.
IATA (Air):	This product is not regulated by the IATA as a hazardous material for shipment by air.

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: This product is exempt from TSCA listing requirements as it is solely for FIFRA regulated use.

EPA Labeling Information (FIFRA): This chemical is a pesticide product registered by the 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 and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

No signal word or hazards to humans and domestic animals.

SARA Title III Information:

Section 302 – Extremely hazardous substances: None listed

Section 311/312 – Hazard Categories: None

Section 313 – This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %	SARA 313 – Threshold Values %
None listed			



CERCLA – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Chemical Name	CAS Number	RQ	Quantity of Finished Product
None listed			

CALIFORNIA PROPOSITION 65:

Chemical Name	CAS Number	Prop 65 Category(ies)
None listed		

U.S. STATE RIGHT-TO-KNOW REGULATIONS:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Butylated hydroxytoluene	X	X	X

SECTION 16: OTHER INFORMATION

NFPA	Health Hazards 1	Flammability 0	Instability 0	Special Hazards – None
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