

SECTION 1: IDENTIFICATION

Product Name: VigeoTM

EPA Reg. No. 62097-45-92697

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: Vivid Life Sciences, LLC

P.O. Box. 41632

Minneapolis, MN 55441

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: COMPOSTION/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:	8			
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			

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

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing
Water fog, foam, dry chemical, carbon dioxide (CO2), water spray

Media:

Unsuitable Extinguishing

Media:

Hazardous Combustion

Products:

Thermal decomposition may include carbon, nitrogen compounds and

aldehydes.

Water jet

Special Protective

Equipment & Precautions:

bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.

Wear NIOSH/MSHA approved self-contained breathing apparatus and full

Unusual Fire & Explosion

Methods for Clean-up:

Hazards:

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.

Other Information: None known

SECTION 7: HANDLING AND STORAGE

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			10 mg/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.

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

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

Not determined Appearance: Pale yellow liquid **Upper/Lower Flammability Limits:** Odor: Very faint mild Vapor Pressure: Not determined **Odor Threshold:** Not determined Vapor Density: Not determined 1.035-1.039 3.4 - 3.8**Relative Density:** pH: **Melting /Freezing Point:** Not determined Solubility (water): Soluble **Boiling Point/Range:** Approx 370°F **Partition Coefficient:** Not determined

(188°C)

Flash Point: $> 212^{\circ}F(>100^{\circ}C)$ Auto-ignition Temperature: Not determined

(closed cup)

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 Will not occur

Reactions:

Conditions to Avoid: High temperatures and sources of ignition

Incompatible Materials: Strong acidic or alkaline solutions or oxidizing materials

Hazardous Decomposition Thermal decomposition may include carbon, nitrogen compounds and

Products: 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:

Carcinogenicity.				
Chemical Name	ACGIH	IARC	NTP	OSHA
None listed				

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SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

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

ENVIRONMENTAL

EFFECTS:

Persistence and Degradability:No data availableBioaccumulation:No data availableMobility:No data availableOther 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 This product is not regulated by the U.S. Department of Transportation as a hazardous material

(Ground): for ground shipment.

IMDGThis product is not regulated by the IMDG as a hazardous material for shipment by sea.

(Sea):

(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			

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