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MATERIAL SAFETY DATA SHEET

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TRANSPORTATION EMERGENCY (24 hours a day)
CHEMTREC:(800)-424-9300

EMERGENCY (24 hours a day) AND PRODUCT INFORMATION
OHP, Inc.:(800)-356-4647

Augeo™ Plant Growth Regulator

EPA Registration Number: 2217-932-59807

I. PRODUCT IDENTIFICATION

Product Name: AUGEOT™ PLANT GROWTH REGULATOR
Chemical Name: Dikegulac sodium
Use of substance/preparation ..: Plant Growth Regulator

II. HAZARDOUS IDENTIFICATION

Hazard Category
 Acute Chronic Fire Pressure Reactive
Hazardous Identification Information: Medium yellow liquid, no distinguishable odor. Irritant.

III. COMPOSITION / INFORMATION ON INGREDIENTS

Trade Secret: (ND = Not Disclosed)

CAS No	Chemical	% Range
52508357	2,3:4,6-Bis-O-(1-methylethylidene)-alpha-L-xyllo-2-hexulofuranosonic acid, sodium salt (Dikegulac sodium)	18.5%

EHS	NTP	IARC	SUB Z	SARA	OSHA	ACGIH	Other Limits
				313	PEL	TLV	
N	N	N	N	N	NI	NI	NI

IV. FIRST AID MEASURES

Route(s) of Entry: Contact, inhalation.
Health Hazards (Acute and Chronic):
EYES: Contact may cause irritation and/or burning.
SKIN: Contact may cause irritation.
INHALATION: May irritate respiratory system.
INGESTION: May irritate gastrointestinal system.
Signs and Symptoms: NI
Medical Conditions Generally Aggravated by Exposure: NI

Emergency First Aid Procedure:

EYES: Flush eyes with clean water for 10-15 minutes, holding lids open. If irritation persists, seek medical attention.
SKIN: Bathe and shampoo with soap and water to remove chemicals from skin and hair. Launder contaminated clothes separately, prior to reuse. If irritation persists, seek medical attention.
INHALATION: Remove victim to fresh air. Apply artificial respiration if needed. If irritation persists, seek medical attention.
INGESTION: Call a physician or Poison Control Center
Other Health Warnings: NI

V. FIRE FIGHTING MEASURES

Flash Point: 111°F F.P. Method
Lower Explosive Limit: NI
Upper Explosive Limit: NI

Fire Extinguishing Media:

Foam, CO2, dry chemical, water, as appropriate for fire in surrounding materials. The low flash point of this product is due to a minor component in the mixture. Based on independent laboratory testing of similar products, this product would not sustain combustion as specified in DOT Regulation 49 CFR 173 Appendix H, and, therefore, would not be classified as a combustible liquid.

Special Fire Fighting

Procedures: Wear self-contained breathing apparatus.

Unusual Fire and Explosion ...: Runoff from fire control may pollute surface water. If pollution occurs, call local authorities.

VI. ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled:
See Section 8 for Personal Protective Equipment. Do not touch spilled product. Contain and collect spilled material with inert absorbent; place in drums for disposal. Cover and label the drums. Wash area with water, if possible.

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VII. HANDLING AND STORAGE

Precautions to be Taken:

Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Store in original container in a locked storage area. Keep from freezing. To prevent cross contamination, do not store near other pesticides, seeds, food or feed.

Other Precautions: NI

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation Requirements:

Mechanical ventilation is recommended if product is applied in an enclosed area. Good local ventilation is required.

Personal Protective Equipment:

CAUTION: May be harmful if inhaled. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. In case of contact immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. Do not use on food or fodder crops.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

PROTECTIVE CLOTHING: Wear long sleeve shirt, long pants, shoes with socks, and chemical-resistant gloves.

EYE PROTECTION: Safety glasses with side shields or safety goggles.

RESPIRATORY PROTECTION: If exposure limits may be exceeded, wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Chemical State: Liquid

Chemical type: Mixture

Boiling Point: 212°F

Melting Point: NI

Evaporation Rate
(Butyl Acetate = 1): >1

Vapor Pressure (mm Hg.): <17@20°C

Vapor Density (Air = 1): <1

Specific Gravity (H₂O = 1): 1.09510

Solubility in Water: Soluble

Appearance and Odor: Medium yellow liquid; no odor

Other Information:

pH: 9.5

Density: 9.12 pounds/gallon @20°C

Viscosity: 5 cp @ 25°C

X. STABILITY AND REACTIVITY

Stability: Stable.

Incompatibility
(Materials to Avoid): None known.

Decomposition/By-Products ..: None known.

Hazardous Polymerization: Will not occur.

XI. TOXICOLOGICAL INFORMATION

Dermal LD50: >1000 mg/kg body weight.
25.24 mg/L (male rats);
27.92 mg/L (female rats)

Oral LD50: >5000 mg/kg body weight.

XII. ECOLOGICAL INFORMATION

For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

XIII. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or incineration, or if allowed by state and local authorities by burning. If burned stay out of smoke.

XIV. TRANSPORT INFORMATION

Plant growth regulator (Not regulated by DOT)

XV. REGULATORY INFORMATION

OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3(2)(B)(ii) when used as a pesticide.

CERCLA REPORTABLE QUANTITY: None

SARA TITLE III:

SECTION 302

EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Immediate
Health Hazard

SECTION 313 TOXIC CHEMICALS: None

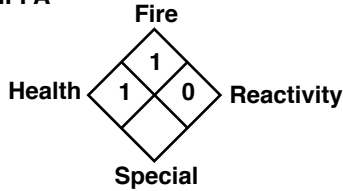
MATERIAL SAFETY DATA SHEET

Augeo™ Plant Growth Regulator

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RCRA STATUS: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

NFPA



1 Health
1 Flammability
0 Reactivity
B Pers. Protection

XVI. OTHER INFORMATION

NOTE: NI means not indicated.

The information and statements in this Material Safety Data Sheet are believed to accurately reflect the scientific evidence used in making the hazard determination, but is not to be construed as a warranty or representation for which we assume legal responsibility. Additional information may be necessary or desirable depending on particular, exceptional or variable conditions or circumstances of use or storage or because of locally applicable laws or government regulations.

Therefore, you should use this information only as a supplement to other information available to you and must make independent determinations of the suitability of the information for your particular circumstances or conditions and of the completeness of the information available from all sources to assure both the proper use of the material described herein and the safety and health of employees.

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