

Revision Date: 06/09/2015 Print Date: 12/01/2015

AUGEO® PLANT GROWTH REGULATOR

EPA Registration Number: 2217-932-59807

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY/ UNDERTAKING

Product name. : AUGEO® Plant Growth

Regulator

EPA Registration No. : 2217-932-59807

Recommended use of the chemical and restriction on

use

Recommended use* : Growth regulator

Uses advised against : No information available.

Company information : OHP, Inc.

PO Box 51230 Mainland, PA 19451 (800) 659-6745

TRANSPORTATION EMERGENCY

(24 hours a day) call : Chemtrec: 1-800-424-9300

MEDICAL EMERGENCY (24 hours a day) and Product

Information call : 1-800-356-4647

SDS Information or Request: ohp.com

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status. .: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Dermal	Category 3		
Skin sensitization	Category 1		

Label elements

Emergency Overview

Danger

Hazard statements Toxic in contact with skin. May cause an allergic skin reaction.



Appearance: LiquidPhysical state: LiquidOdor: Odorless

Precautionary Statements - Prevention

- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Contaminated work clothing should not be allowed out of the workplace
- Keep away from heat/sparks/open flames/hot surfaces. No smoking
- · Keep container tightly closed

Precautionary Statements - Response

- Call a POISON CENTER or doctor/physician if you feel unwell
- Wash contaminated clothing before reuse
- If skin irritation or rash occurs: Get medical advice/ attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower

Precautionary Statements - Storage

- Store locked up
- Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Have the product label with you when calling a poison control center or doctor or going in for treatment. You may also contact 1-800-356-4647 for emergency medical treatment advice.

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; however OSHA HCS 2012 flammable classifications are solely based on tested mixture flash points and boiling points.

Other Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
2,3:4,6-Bis-O-(1-methylethylidene)- alpha-L-xylo-2-h exulofuranosonic acid, sodium salt (Dikegulac sodium)	52508-35-7	18.5
Trade Secret	Proprietary	0-10*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret



irritating and toxic gases and vapors.

Mechanical Impact. : None.

Explosion data

Sensitivity to

SAFETY DATA SHEET

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	FIRST AID MEASURES	Sensitivity to Static Discharge None.					
	First aid measures		Protective equipment and precautions for firefighters				
	General advice In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.		As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.				
	 Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Skin Contact	6.	ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and emergency procedures Personal precautions: Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.				
	Inhalation Remove to fresh air. Move		Environmental precautions				
	to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, call a physician.		Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from enter-				
Ingestion Do NOT induce vomiting. Drink plenty of water. Rinse mouth. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.			ing drains. Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.				
	Consult a physician if necessary.	Methods and material for containment and cleaning up					
	Self-protection of the first aider Use personal protective equipment as required.		Methods for containment .: Prevent further leakage or spillage if safe to do so.				
	Most important symptoms and effects, both acute and delayed Symptoms No information available.		Methods for cleaning up : Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).				
	Indication of any immediate medical attention and		bilider, driiversal bilider, sawdust <i>j.</i>				
	special treatment needed						
	Note to physicians May cause sensitization of susceptible persons. Treat symptomatically.	7.	HANDLING AND STORAGE Precautions for safe handling				
			Advice on safe handling : Ensure adequate venti-				
	FIRE-FIGHTING MEASURES		lation, especially in confined areas. Take precaution-				
Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			ary measures against static discharges. Use with local exhaust ventilation. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.				
	Specific hazards arising from the chemical In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin		Conditions for safe storage, including any incompatibilities				
	contact. Thermal decomposition can lead to release of		Storage Conditions : Keep in properly labeled				

containers. Keep containers tightly closed in a cool,

well-ventilated place.

Incompatible materials . . .: None known.



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	EVENCUE CONTROL C/DEDCONAL DEGLECTION	Floremobility (colid goo) . No information available
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION	Flammability (solid, gas): No information available
	Control parameters	Flammability Limit in Air
	Exposure Guidelines NIOSH IDLH Immediately Dangerous to Life or Health	Upper flammability limit: No information available
	Other Information Vacated limits revoked by	Lower flammability limit : No information available
	the Court of Appeals decision in AFL-CIO v. OSHA,	Vapor pressure <17 mm Hg @20°C
	965 F.2d 962 (11th Cir., 1992).	Vapor density <1
	Appropriate engineering controls	Specific Gravity 1.0951
	Engineering Controls : Ensure adequate ventilation, especially in confined areas.	Water solubility Soluble in water
	Individual protection measures, such as personal pro-	Solubility in other solvents: No information available
	tective equipment	Partition coefficient : No information available
	Eye/face protection : Tight sealing safety gog-	Autoignition temperature .: No information available
	gles. Face protection shield.	Decomposition temperature No information available
	Skin and body protection : Wear protective gloves	Oxidizing properties : No information available
	and protective clothing. Wear long-sleeved shirt, long pants, socks and shoes.	Other Information
	Respiratory protection : If exposure limits are	Density 9.12 pounds/gallon
	exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.	10. STABILITY AND REACTIVITY
	Positive-pressure supplied air respirators may be required for high airborne contaminant concentra-	Reactivity No data available
	tions. Respiratory protection must be provided in	Chemical stability Stable.
	accordance with current local regulations.	Possibility of
	General Hygiene Considerations When using do not eat,	Hazardous Reactions : None under normal processing.
	drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.	Hazardous polymerization .: Will not occur.
	J	Conditions to avoid Keep from freezing.
9.	PHYSICAL AND CHEMICAL PROPERTIES	Incompatible materials : None known.
	Information on basic physical and chemical properties	Hazardous Decomposition Products None known.
	Physical state Liquid	11. TOXICOLOGICAL INFORMATION
	Appearance Liquid	Information on likely routes of exposure
	Color Light blue or Brown	Product Information
	Odor Odorless	Inhalation See "Numerical measures
	Odor threshold No information available	of toxicity-product information" in this section.
	Property	Eye contact No data available.
	pH 9.5 Melting point/	Skin Contact : See "Numerical measures of toxicity-product information" in this section.
	freezing point : No information available Boiling point /	Ingestion See "Numerical measures of toxicity-product information" in this section.
	boiling range : 100 °C / 212 °F	

Evaporation rate $\dots > 1$



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Chemical Name	Oral	Dermal	Inhalation
	LD50	LD50	LC50
2,3:4,6-Bis-0-(1-methylethylidene)- alpha-L-xylo-2-hexulofuranosonic acid, sodium salt (Dikegulac sodium) 52508-35-7	= 18 g/kg (Rat)	> 1 g/kg (Rat) > 1 g/kg (Rabbit)	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization. : No information available.

Germ cell mutagenicity : No information available.

Carcinogenicity : No information available.

Reproductive toxicity : No information available.

STOT - single exposure : No information available.

STOT - repeated exposure : No information available.

Chronic toxicity : Repeated contact may

cause allergic reactions in very susceptible persons. Avoid repeated exposure.

Aspiration hazard : No information available.

Numerical measures of toxicity - Product Information
Oral LD50 > 5000 mg/kg body

weight

Dermal LD50 > 1000 mg/kg body

weight

Inhalation LC50 25.24 27.92 mg/L (male

rats) (female rats)

12. ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic life

22% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and

 degradability
 : No information available.

 Bioaccumulation
 : No information available.

 Other adverse effects
 : No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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

Contaminated packaging .: Do not reuse container. See Section 2: Hazards not otherwise classified (HNOC) This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. TRANSPORT INFORMATION

DOT

Inhibitors, Modifiers, or Regulators, Plant Growth - NMFC #101685

In our current available sizes, this product does not qualify as a Hazardous Material.

15. REGULATORY INFORMATION

U.S. EPA Label Information

EPA Pesticide Registration

Federal Insecticide, Fungicide, Rodenticide Act Regulations

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:

EPA Pesticide Label : Caution. Keep out of the reach of children. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

International Inventories

TSCA Not Listed
DSL/NDSL Not Listed
EINECS/ELINCS : Not Listed
ENCS Not Listed
IECSC Not Listed
KECL Not Listed
PICCS Not Listed
AICS Not Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/ Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances



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KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
2,3:4,6-Bis-0- (1-methylethylidene) -alpha-L-xylo-2-hexulof uranosonic acid, sodium salt (Dikegulac sodium)				Х						X
Trade Secret	Χ	Χ		Χ		Χ	Χ	Χ	Χ	Χ

US Federal Regulations

SARA 313 : Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Sudden release of

pressure hazard : No Reactive Hazard : No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US State Regulations

California Proposition 65 .: This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

International Regulations

Mexico - Grade : Moderate risk, Grade 2

16. OTHER INFORMATION

NFPA

Health hazards 2	Flammability 1	Instability 0	Chemical Propertion
HMIS			
Health hazards	Flammability	Physical hazards	Personal protection
2	1	0	X

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of OHP, Inc.'s knowledge, information and belief at the date of this publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process, unless specified in the text. OHP, INC. MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FIT-NESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. Each user is also responsible for evaluating the conditions of use and designing the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. OHP, Inc. assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.



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