

## SAFETY DATA SHEET

1. Identification:		
<b>Product Identifier:</b>	Kudos® 27.5 WDG	
<b>Other Means of Identification:</b>	PCPA registration number 33010	
<b>Distributed by:</b>	N.M. Bartlett Inc. 4509 Bartlett Rd, Beamsville, Ontario, L0R 1B1, Canada Tel: 905-563-8261	
<b>Emergency Phone Number:</b>	Chemtrec 1-800-424-9300 (24 hours) Canutec 613-996-6666 (24 hours)	
<b>Recommended Use:</b>	Plant growth regulator for use on apples, sweet and tart cherries, and strawberries	
<b>Restrictions on Use:</b>	Keep out of reach of children	
2. Hazard(s) Identification (This product is classified as non-hazardous as defined by Hazardous Products Regulations SOR/2015-17):		
<b>Class/Category:</b>	Eye irritation, category 2B	
<b>Route of Exposure:</b>	Most likely exposure by Dermal or oral route	
<b>Hazards Not Otherwise Classified:</b>	None	
<b>Signal Word:</b>	WARNING	
<b>Symbol(s):</b>	None	
<b>Hazard Statements:</b>	H320 Causes eye irritation	
<b>Precautionary Statements:</b>	Prevention: P264 Wash hands thoroughly after handling. Response: P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. P337+313 If eye irritation persists get medical advice / attention. Storage: None assigned Disposal: None assigned	
3. Composition:		
<b>CAS number:</b>	<b>Component:</b>	<b>Percent:</b>
127277-53-6	Prohexadione calcium	27.5%
None assigned	Sulphonated aromatic polymer sodium salt	1.9%
None assigned	Sodium alkylnaphthalene sulphonate	1%
The remainder of the mixture is not required to be disclosed under SOR/2015-17		
4. First Aid Measures:		
<b>Inhalation:</b>	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	
<b>Eyes:</b>	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists get medical advice / attention.	
<b>Skin:</b>	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	
<b>Ingestion:</b>	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.	
<b>Symptoms/Effects:</b>	Acute: No available information Delayed: No available information	
<b>Indication of immediate medical attention and special treatment needed, if necessary:</b>	No available information	
5. Fire Fighting Measures:		

<b>Extinguishing Media:</b>	Suitable: Water, foam, carbon dioxide, dry powder Unsuitable:				
<b>Specific Hazards Arising from the Chemical:</b>	None, product only partly combustible.				
<b>Protective Equipment and Precautions for Firefighters:</b>	As required for surrounding fire				
<b>6. Accidental Release Measures:</b>					
<b>Personal Precautions, Protective Equipment and Emergency Procedures:</b>	See Section 8 "Exposure controls/personal protection"				
<b>Methods for Containment and Clean-Up:</b>	Collect by use of vacuum cleaner or sweep up avoiding formation of dust clouds, damping down with water if necessary. Transfer to a closable, labelled salvage container for disposal by an appropriate method.  Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. See also Section 13. Disposal Considerations.				
<b>7. Handling and Storage:</b>					
<b>Precautions for Safe Handling:</b>	Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.				
<b>Conditions for Safe Storage:</b>	Store in original container only. After partial use, close the container tightly. Store in a secure place that is temperate and dry. Use spray and stock solutions within 24 hours. Immediate use is required if another component is added to the spray solution. See also Section 10. Stability and Reactivity.				
<b>8. Exposure Controls/Personal Protection:</b>					
<b>Component Exposure Limits:</b>					
<b>Substance</b>	<b>Canada Ontario</b>	<b>Canada Quebec</b>	<b>Canada Saskatchewan</b>	<b>ACGIH TLV</b>	
	ppm STEL	ppm TWA	ppm STEV Mg/m3 TWA EV	ppm STEL ppm TWA	8-hr TWA (ST) STEL (C) Ceiling
No components listed	-	-	-	-	-
<b>Appropriate Engineering Controls:</b>	No applicable information available.				
<b>Personal Protective Equipment:</b>	Eyes/Face: Wear suitable eye/face protection. Skin: Wear long sleeved shirt and long pants, socks, shoes, and gloves. Remove and wash contaminated clothing before reuse. Respiratory: A respirator is not normally required when handling this substance.				
<b>9. Physical and Chemical Properties:</b>					
<b>Appearance:</b>	Brown free flowing granular solid				
<b>Odor:</b>	Odorless				
<b>Odor Threshold:</b>	No data available				
<b>pH:</b>	6-8 (1% solution)				
<b>Melting Point/Freezing Point:</b>	Not applicable				
<b>Boiling Point:</b>	Not applicable				
<b>Flash Point:</b>	Not flammable				
<b>Evaporation Rate:</b>	Not applicable				
<b>Flammability/Limits:</b>	Not flammable				

	LFL: not applicable UFL: not applicable
<b>Vapor Pressure:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Relative Density:</b>	Pour 0.56 g/ml at 68°F (20°C), bulk 0.62 g/ml at 68°F (20°C)
<b>Solubility (H<sub>2</sub>O):</b>	Dispersible
<b>Partition Coefficient:</b>	No data available
<b>Auto-Ignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	No data available
<b>Viscosity:</b>	Not applicable

**10. Chemical Stability and Reactivity Information:**

<b>Reactivity:</b>	No applicable information available
<b>Chemical Stability:</b>	Stable in original containers for at least 2 years at ambient temperatures (40-70°F).
<b>Possibility of Hazardous Reactions:</b>	No applicable information available
<b>Conditions to Avoid:</b>	None known
<b>Incompatible Materials:</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products:</b>	None under normal conditions of storage and use.

**11. Toxicological Information:**

<b>Likely Routes of Exposure:</b>	Dermal and Oral
<b>Symptoms:</b>	Inhalation: Product is nearly dust free Eye: Moderate irritation Skin: Moderate irritation Ingestion: No applicable information
<b>Acute Toxicity:</b>	Oral: LD <sub>50</sub> Rat >2 000 mg/kg Inhalation: Product is nearly dust free Dermal: LD <sub>50</sub> Rat >2 000 mg/kg
<b>Skin Corrosion/Irritation:</b>	Moderate irritant (rabbit)
<b>Serious Eye Damage/Eye Irritation:</b>	Moderate irritant (rabbit)
<b>Sensitization:</b>	Non-sensitizing (mouse)
<b>Germ Cell Mutagenicity:</b>	No data available
<b>Carcinogenicity:</b>	None of the components of this product are listed as carcinogens by NTP, IARC or OSHA.
<b>Reproductive/Developmental Toxicity:</b>	No evidence of reproductive effects
<b>Specific Target Organ Toxicity:</b>	Single Exposure: No data available Repeated Exposure: No data available

**12. Ecological Information:**

<b>Ecotoxicity:</b>			
	<b>Species:</b>	<b>Exposure Time</b>	<b>LC50/EC50/IC50</b>
	Fish	96 hr	LC50 >100 mg/L
	Daphnia	48 hr	EC50 >100 mg/L
	Algae	72 hr	EC50 >100 mg/L
	Bird		LC50 >2000 mg/kg
	Bee		LD50 >100µg
	Earthworm		>1000 as/kg soil
<b>Persistence and Degradability:</b>	Readily biodegradable.		
<b>Bioaccumulation Potential:</b>	No data available.		
<b>Mobility in Soil:</b>	No data available.		
<b>Other Adverse Effects:</b>	None known		

**13. Disposal Considerations:**

<b>Disposal Instructions:</b>	<p>Triple- or pressure-rinse the empty container. Make the empty, rinsed container unsuitable for further use.</p> <p>If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.</p> <p>For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.</p>
-------------------------------	---

**14. Transport Information:**

<b>UN/TDG Proper Shipping Name:</b>	Not applicable
<b>Hazard Class:</b>	Not applicable
<b>UN/TDG Number:</b>	Plant growth inhibitor, modifier or regulator
<b>Packing group:</b>	Not applicable
<b>Marine Pollutant:</b>	No
<b>NMFC Number:</b>	101685/65 Plant growth inhibitor, modifier or regulator, NOIBN

**15. Regulatory Information:**

<b>DSL/NDSL:</b>	
<b>TSCA:</b>	All components of this product are either listed or are exempt on the TSCA inventory. The following components of this product are subject to the reporting requirements of Section 12(b) of TSCA: None

This chemical is a pesticide product registered by the Pest Management Regulatory 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.

<b>PMRA signal word:</b>	CAUTION
--------------------------	---------

<b>Precautionary Statements:</b>	<p>KEEP OUT OF REACH OF CHILDREN.</p> <ul style="list-style-type: none"> <li>• May irritate eyes and the skin</li> <li>• Avoid contact with eyes, skin and clothing</li> <li>• Wash thoroughly after handling and before eating, drinking or smoking</li> <li>• Wear long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up, and repair. Goggles are required during airblast application.</li> <li>• If clothing becomes contaminated, remove and wash separately from household laundry before reuse.</li> <li>• Clean spray equipment thoroughly after use. Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product.</li> <li>• Apply only when the potential for drift to areas of human habitation or areas of human activity (houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature inversion, application equipment and sprayer settings.</li> <li>• DO NOT enter or allow entry into treated areas during the restricted entry interval (REI) of 12 hours.</li> </ul>
----------------------------------	---

<b>Pictograms/Symbols:</b>	None
----------------------------	------

**16. Other Information:**

	None
<b>Issue Date/Version:</b>	3/22/18 version 1
<b>Supersedes:</b>	Not applicable