



# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	Tide Plant Guard
<b>Other means of identification</b>	REGISTRATION NO. 34938
<b>Recommended use</b>	Agricultural adjuvant – See product label for full directions for use
<b>Recommended restrictions</b>	See product label for any potential use restrictions
<b>Manufacturer/Importer/Supplier/Distributor information</b>	
<b>Supplier</b>	
<b>Company name</b>	Tide International Canada, Inc.
<b>Address</b>	245 Hanlon Creek Boulevard Unit 102 Canada
<b>Telephone</b>	+1-866-699-7717
<b>Emergency phone number</b>	1-800-424-9300 (CHEMTREC)

## 2. Hazard Identification

<b>Emergency overview</b>	Orange or dark amber liquid with no odor. May cause mild eye and skin irritation. Based on currently available data, this product does not meet the regulatory definition of a hazardous substance. However, good industrial hygiene practices should be used in handling the product.		
<b>Potential health effects</b>			
<b>Eyes</b>	May cause mild and reversible eye irritation		
<b>Skin</b>	May cause mild and reversible skin irritation.		
<b>Inhalation</b>	May cause minor irritation of the upper respiratory tract.		
<b>Ingestion</b>	May cause gastric upset if swallowed.		
<b>Preexisting Conditions</b>	None known		
<b>Chronic Health Effects</b>	None known		
<b>Carcinogenicity</b>	NTP: Not listed	IARC: Not listed	OSHA: Not listed
<b>Osha hcs 2012 classification</b>	This product does not meet the definition of a hazardous chemical under OSHA's Hazard Communication Standard.		
<b>Signal word</b>	CAUTION		
<b>Hazard statement</b>	None required.		
<b>Percent of product with unknown toxicity</b>	0%		
<b>Precautionary statement</b>			
<b>Prevention</b>	See Section 8 for personal protective equipment		
<b>Response</b>	See Section 4 for first aid.		
<b>Storage</b>	See section 7 for storage information.		
<b>Disposal</b>	See section 13 for disposal information		

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### 3. Composition/information on ingredients

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Ingredient	CAS Reg. #	% (wt)
Methylated Soybean Oil	67784-80-9	48.0 – 52.0%
Propylene glycol	57-55-6	2.6 – 3.25%

\*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(i).

See Section 8 for exposure limits

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### 4. First aid measures

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<b>Inhalation</b>	Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.
<b>Ingestion</b>	Seek medical attention or call a poison control center for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>Eyes</b>	Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.
<b>Skin</b>	Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

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### 5. Fire-Fighting measures

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<b>Suitable extinguishing media</b>	Carbon dioxide, foam, dry chemical, halogenated agents, water fog
<b>Special Fire Fighting Procedures</b>	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. Use fog nozzles if water is used.
<b>Hazardous Combustion Products</b>	Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, phosphorous oxides.
<b>Unusual Fire and Explosion Hazards</b>	None known

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### 6. Accidental release measures

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<b>Personal precautions</b>	Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
<b>Environmental Precautions</b>	Keep spilled product from entering sewers or waterways
<b>Methods for Containment</b>	Contain spilled product by diking area with sand or earth
<b>Methods for Clean-up</b>	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.
<b>Other Information</b>	None known

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### 7. Handling and Storage

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<b>Handling</b>	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
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	the toilet, or applying cosmetics.
<b>Storage</b>	Store in cool, dry areas away from children, food and feed products in an area away from incompatible substances. Protect packaging from physical damage. Protect from exposure to fire. Maintain product above minimum storage temperature. Do not store in aluminum or metal vessels.
<b>Minimum Storage Temperature</b>	32°F
<b>Other Precautions</b>	Consult Federal, state and local laws and regulations pertaining to storage.

## 8. Exposure controls / Personal protection

Exposure Guidelines			
Component:	OSHA PEL	ACGIH TLV	NIOSH REL
No components have established limits			
<b>Respiratory Protection</b>	For most conditions, no respiratory protection should be needed. If used in an area with inadequate ventilation, use a NIOSH approved air-purifying respirator with cartridges/canisters approved for general particulates.		
<b>Engineering Controls</b>	Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.		
<b>Protective Gloves</b>	While not expected to cause skin irritation, the use of chemically protective gloves is recommended to prevent against skin contact.		
<b>Eye protection</b>	While not expected to cause eye irritation, the use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.		
<b>Other Protective Clothing or Equipment</b>	Wear long-sleeve shirt, long pants and shoes plus socks to prevent skin contact		
<b>Work/Hygienic Practices</b>	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.		

## 9. Physical and chemical properties

<b>Physical State</b>	Liquid.
<b>Vapor Pressure (mm Hg)</b>	Not determined
<b>Vapor Density (Air=1)</b>	Not determined
<b>Solubility in Water (wt %)</b>	Dispersible
<b>Viscosity</b>	Not determined.
<b>Appearance and odor</b>	Orange or dark amber liquid with no odor
<b>Specific Gravity (H<sub>2</sub>O=1)</b>	1.01
<b>Density (lbs/gallon)</b>	8.38 – 8.45 lbs/gallon
<b>Melting Point/Freezing Point</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Boiling Point/Range</b>	>212°F (100°F)
<b>pH (1% in distilled water)</b>	6.18
<b>Flash Point</b>	>201°F (94°C)

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## 10. Stability and reactivity

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<b>Reactivity</b>	None known
<b>Chemical Stability</b>	Product is stable at ambient temperature and pressure, under normal storage and handling conditions.
<b>Possibility of Hazardous Reactions</b>	Will not occur
<b>Conditions to Avoid</b>	Excessive heat
<b>Incompatible Materials</b>	Oxidizing agents
<b>Hazardous decomposition products</b>	Combustion products: carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, phosphorous oxides.

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## 11. Toxicological information

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<b>Acute toxicity</b>	
<b>Eye Effects</b>	May cause mild but temporary eye irritation.
<b>Skin Effects</b>	May cause mild but temporary skin irritation. Animal tests showed the product to be non-irritating. LD <sub>50</sub> >5,050 mg/kg (rat)
<b>Acute Inhalation Effects</b>	LC <sub>50</sub> >2.32 mg/L. There was no mortality during the study and this product is not anticipated to be toxic by inhalation.
<b>Acute Oral Effects</b>	LD <sub>50</sub> >5,000 mg/kg
<b>Specific Target Organ Toxicity</b>	None known
<b>Chronic Toxicity</b>	
<b>Chronic Effects</b>	None known
<b>Carcinogenicity</b>	No components are anticipated to cause carcinogenic effects.
<b>Mutagenicity</b>	No components are anticipated to cause mutagenic effects.
<b>Teratogenicity</b>	No components are anticipated to cause teratogenic effects.
<b>Reproductive Toxicity</b>	No components are anticipated to have effects on the reproductive system
<b>Potential Health Effects</b>	
<b>Eyes</b>	May cause mild and reversible eye irritation.
<b>Skin</b>	May cause mild and reversible skin irritation.
<b>Inhalation</b>	May cause minor irritation of the upper respiratory tract.
<b>Ingestion</b>	May cause gastric upset if swallowed.

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## 12. Ecological information

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<b>Environmental summary</b>	This product is not anticipated to have negative environmental effects. However, care should be taken to prevent releases into the environment in quantities greater than the recommended application rates.
<b>Ecotoxicity data</b>	
<b>Fish Acute and Prolonged Toxicity</b>	Rainbow Trout – NOEC 15 mg/L; 96 hr LC <sub>50</sub> = 21.71 mg/L Bluegill – NOEC >100 mg/L
<b>Aquatic Invertebrate Acute Toxicity</b>	Daphnia – NOEC 12.5 mg/L; EC <sub>50</sub> = 26.83 mg/L (48 hr static test)
<b>Aquatic Plant Toxicity</b>	Not determined.
<b>Bird acute and prolonged toxicity</b>	Not determined.
<b>Honeybee Toxicity</b>	Not determined.

**Environmental effects**

<b>Soil absorption/mobility</b>	Not determined.
<b>Persistence and degradability</b>	Not determined.
<b>Bio-accumulative Potential</b>	Not determined.
<b>Other adverse effects</b>	Not determined.

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**13. Disposal considerations**

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<b>Waste</b>	Dispose of in accordance with applicable Federal, state and local laws and regulations.
<b>Container</b>	Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.
<b>RCRA Characteristics</b>	It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste

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**14. Transport information**

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

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**15. Regulatory information**

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**TSCA Inventory:** All components are listed or exempt from listing on the TSCA inventory.

**SARA Title III Information:**

**Section 302 - Extremely hazardous substances:** None listed

**Section 311/312 - Hazard Categories:** None

**Section 313** - The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund

**Amendments and Reauthorization Act of 1986 and 40 CFR 372:** 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):** None listed

**California Proposition 65: WARNING:** This product contains chemicals known to the state of California to cause cancer and/or reproductive harm.

**U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):**

<b>Chemical Name</b>	<b>CAS #</b>	<b>State(s)</b>
Propylene glycol	57-55-6	NJ, PA

**Canadian Domestic Substances List:** All components are listed on the DSL.

**WHMIS Classification:** Exempt – Registered Product – PCP 34938

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## 16. Other information

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LEGEND	
Severe	4
High	3
Moderate	2
Slight	1
Least	0

HEALTH	/ 1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

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1.1

*Other information*

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

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*Prepared by*

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