

# SAFETY DATA SHEET (SDS)

## **KILLER** **For Ice Plant Weeds**

Manufactured By: SUNGRO PRODUCTS

SDS DATE: 3-4-11

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This Material Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community Right To Know emergency response reporting requirements under SARA TITLE III and many other laws. If you resell this product, this SDS must be given to the buyer or the information incorporated in your SDS.

### Section 1: Product Identification

Product ID: 26000  
Product Name: **KILLER**  
EPA Registration Number: 84396-30  
Intended Use: For the control of thin grassy or broadleaved weeds the grow in ice plant.

**Comments:** SUNGRO PRODUCTS Hours of operation are 7:30 am to 4:00 pm PCT.  
For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to  
(888) 740-8712, or (952) 852-9509.

### Section 2: Hazard(s) Identification

<b>Physical hazards</b>	Not classified.
<b>Health hazards</b>	Not classified.
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard      Category 3 Hazardous to the aquatic environment, long-term hazard      Category 3
<b>OSHA defined hazards</b>	Not classified. This material is considered G.R.A.S. (generally regarded as safe) by USDA.
<b>Label elements</b>	
<b>Hazard symbol</b>	None.
<b>Signal word</b>	None.
<b>Hazard statement</b>	The mixture does not meet the criteria for classification.
<b>Precautionary statement</b>	
<b>Prevention</b>	Observe good industrial hygiene practices.
<b>Response</b>	Wash hands after handling.
<b>Storage</b>	Store away from incompatible materials.
<b>Disposal</b>	Dispose of waste and residues in accordance with local authority requirements.
<b>Hazard(s) not otherwise (HNOC)</b>	Application of excessive amounts of KILLER directly adjacent to or directly upon paved <b>classified</b> surfaces may result in slippery conditions which present a safety hazard for foot and vehicular traffic.

### Section 3: Composition/information on ingredients

#### Mixtures

<b>Chemical name</b>	<b>CAS number</b>	<b>%</b>
Water	7732-18-5	79.1
Magnesium chloride	7786-30-3	20.4
Magnesium sulfate	7487-88-9	0.5

### Section 4: First-Aid Measures

<b>Inhalation</b>	In case of inhalation of spray mist: Move person into fresh air and keep at rest. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Give one or two glasses of water if patient is alert and able to swallow. Get medical attention if symptoms occur.
<b>Most important symptoms/effects, acute and delayed</b>	Accidental exposure or contact might produce: Irritant effects.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### Section 5: Fire-fighting Measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing</b>	None known.
<b>Media Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Use water spray to cool unopened containers.
<b>Specific methods General fire hazards</b>	Use standard firefighting procedures and consider the hazards of other involved materials. This product is not flammable or combustible.

### Section 6: Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	<del>KILLER is a mild irritant to the skin. It is easily removed by flushing with water. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.</del>
<b>Methods and materials for containment and cleaning up</b>	Dike the spilled material, where this is possible. Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

### Section 7: Handling and Storage

<b>STORAGE PRECAUTIONS:</b>	<del>Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Prolonged storage or subjecting the materials to temperatures below 30 degrees F (-1 degree C) can result in the formation of magnesium sulfate crystals.</del>
<b>OTHER PRECAUTIONS:</b>	Can be corrosive to some metals, especially steel and aluminum. Application of magnesium chloride onto paved surfaces may result in slippery conditions.

### Section 8: Exposure controls/personal protection

<b>Occupational exposure limits</b>	<del>No exposure limits noted for ingredient(s).</del>
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Provide adequate ventilation and minimize the risk of inhalation of mists.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).

<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	For use in open outdoor areas, begin spraying at the furthest downwind edge of the treatment area. While walking at a slow, comfortable pace, spray perpendicular to the wind pointing the nozzle downwind, until reaching the opposite edge of the treatment area. Continue this motion upwind every 10 feet until entire treatment area has been sprayed.
<b>General hygiene Considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### Section 9: Physical and Chemical Properties

<b>Appearance</b>	Clear liquid
<b>Physical state</b>	Liquid.
<b>Form</b>	Slightly viscous, brown/amber liquid with a slight saline odor.
<b>Color</b>	Brown or amber.
<b>Odor</b>	Slight saline odor.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	226.4 - 253.4 °F (108 - 123 °C) (760 mm Hg)
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper(%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	7.5 mm Hg (86 °F (30 °C))
<b>Vapor density</b>	Not available.
<b>Relative density</b>	1.18 (H <sub>2</sub> O=1)
<b>Solubility (water)</b>	100 %
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Molecular formula</b>	MgCl <sub>2</sub>
<b>Molecular weight</b>	95.22
<b>pH in aqueous solution</b>	5.5 - 6.5

### Section 10: Stability and Reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Avoid contact with strong acids. Incompatible with sulfuric and nitric acids, caustics, ammonia and cyanides.
<b>Hazardous decomposition products</b>	May evolve chlorine gas when in contact with strong acids or upon heating above 300 degrees F (149 degrees C).

### Section 11: Toxicological Information

<b>Information on likely routes of exposure</b>	
<b>Inhalation</b>	Spray mist may irritate the respiratory system.
<b>Skin contact</b>	Prolonged or repeated skin contact may cause irritation.
<b>Eye contact</b>	Mild eye irritation.
<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Eye and skin contact: Exposure may cause temporary irritation, redness, or discomfort.

**Information on toxicological effects**

<b>Acute toxicity</b>	Ingestion of large amounts can cause gastrointestinal upset and irritation of the stomach.
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/eye irritation</b>	May cause slight eye irritation.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not listed.
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not available.

**Section 12: Ecological Information**

<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous
<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	No data available.
<b>Other adverse effects</b>	No data available

**Section 13: Disposal Considerations**

<b>Disposal instructions</b>	Do not contaminate water, food, or feed by storage or disposal.
<b>PESTICIDE STORAGE:</b>	Open dumping is prohibited. Store in original container in areas inaccessible to children.
<b>PESTICIDE DISPOSAL:</b>	Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.
<b>CONTAINER DISPOSAL:</b>	Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. "Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Section 14: Transportation**

<b>DOT</b>	Not regulated as dangerous goods.		
<b>IATA</b>	Not regulated as dangerous goods.		
<b>IMDG</b>	Not regulated as dangerous goods.		
<b>PROPER SHIPPING NAME:</b>	Compounds, Tree or Weed Killing, Liquid	NMFC; 50320	LT CLASS: 60

**Section 15: Regulatory Information**

EPA Registration Number: 84396-30

**Diff. EPA Label Information and EPA (FIFRA) Pesticide label:**

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes

other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:

**Signal word: CAUTION**

**Precautionary Statements:**

- Harmful if swallowed.
- Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**US federal regulations**

All components are on the U.S. EPA TSCA Inventory List.  
This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Personal protection: A

<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	Not regulated.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not listed.
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>	Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

<b>Hazard categories</b>	Immediate Hazard - No
	Delayed Hazard - No
	Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - No

<b>SARA 302 Extremely hazardous substance</b>	Not listed.
<b>SARA 311/312 Hazardouschemical</b>	No
<b>SARA 313 (TRI reporting)</b>	Not regulated.

**Other federal regulations**

<b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>	Not regulated.
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b>	Not regulated.
<b>Safe Drinking Water Act (SDWA)</b>	Not regulated.

**US state regulations**

<b>US. Massachusetts RTK - Substance List</b>	Not regulated.
<b>US. New Jersey Worker and Community Right-to-Know Act</b>	Not listed.
<b>US. Pennsylvania Worker and Community Right-to-Know Law</b>	Not listed.
<b>US. Rhode Island RTK</b>	Not regulated.
<b>US. California Proposition 65</b>	

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European nventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe European	List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances(PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**HMIS® ratings Section 16: Other Information, including date of preparation or last revision**

Health: 1      Flammability: 0      Physical hazard: 0

**Disclaimer:** The data contained herein are based on information currently available to Sungro Products, LLC and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which Sungro Products, LLC assumes legal responsibility.

