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MATERIAL SAFETY DATA SHEET

Product name: SpringStar Double Action Herbicide

SPRINGSTAR INC	EMERGENCY NUMBERS
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WOODINVILLE, WA 98072	(425) 487-6011

SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAME:	SpringStar Double Action Herbicide	PRODUCT NO.	SF 846
SYNONYMS:	Insecticidal Soap	FORMULA:	see below
CAS #:	see below	FORMULA WT:	see below
	Proprietary Mixture		

SECTION 2 - COMPONENTS

<u>Ingredients</u>	<u>CAS or UN#</u>	<u>HAZARD</u>	<u>LD₅₀/LC₅₀</u>	<u>Other notes, Conditions</u>	<u>Concentration</u>
Citric Acid	77-92-9	2	3000 mg/kg [Rat] LDL[Rabbit] - Route: oral; Dose: 7000mg/kg	Hazard - Irritant skin, eye, inhaled, ingested	2.00%
Inert ingredient		3	Oral rat LD50: 3310 mg/kg; skin rabbit LD50: 1.06 g/kg; inhalation mouse LC50: 5620ppm/1-hr	Hazard - Irritant skin, eye, inhaled, ingested	5% to 8%
Inert ingredient		0	n/a	Mist TLV 10 mg/m3	0.10% to 0.5%
Inert ingredient		1	n/a	Slight skin, eye irritation	1.0% to 5.0%
water		0	n/a		>88.5%

SECTION 3 - PHYSICAL DATA FOR MATERIAL

APPEARANCE:	Clear liquid	SOLUBILITY IN WATER:	soluble
ODOUR DESCRIPTION:	Faint acid odor	BOILING POINT:	n/a
VAPOUR PRESSURE (20 C, mm Hg):	not known	% VOLATILES:	0%
VAPOUR DENSITY (AIR = 1):	not known	FREEZING POINT:	30EF
SPECIFIC GRAVITY @ 25°C (WATER = 1):	<1.00		

SECTION 4 - FIRE & EXPLOSION HAZARD OF MATERIAL

FLASH POINT (CC):	>500EF
EXTINGUISHING MEDIA:	water spray, dry chemical, alcohol foam or carbon dioxide.
UNUSUAL FIRE & EXPLOSION HAZARD:	none
HAZARDOUS COMBUSTION PRODUCTS:	possible from minor components

FLAMMABLE LIMITS

AUTO-IGNITION TEMP:	>500EF
SENSITIVE TO MECHANICAL IMPACT:	no
SENSITIVE TO STATIC DISCHARGE:	no

SECTION 5 - REACTIVITY DATA

STABILITY:	Stable under ordinary condition of use and storage. Highly reactive with basic compounds
CONDITIONS TO AVOID:	excessive heat, reactive compounds AVOID INHALING
MATERIALS TO AVOID:	strong oxidizing agents, strong acids and bases. Avoid heat, flames and sources of ignition
HAZARDOUS POLYMERIZATION:	will not occur

SECTION 6 - PREVENTIVE MEASURES

RESPIRATORY PROTECTION:	For conditions of use where exposure to the substance is apparent and engineering controls are not feasible, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator.
VENTILATION:	A system of local and/or general exhaust is recommended to keep employee exposure as low as possible.
PROTECTIVE GLOVES:	recommended
EYE PROTECTION:	recommended
OTHER PROTECTIVE EQUIPMENT:	impervious protective clothing, including boots, gloves.
SPILL OR LEAK PROCEDURES:	Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment. Isolate hazard area. Collect liquid in an appropriate container and use product as labeled or absorb with an inert material (e.g. vermiculite, kitty litter, dry sand). Dispose of absorbed material in regular trash.
WASTE DISPOSAL METHOD:	Whatever can not be used, saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Dispose of container and unused contents in accordance with federal, state and local requirements
HANDLING and STORAGE PROCEDURES:	Keep in a tightly closed container, stored in a cool, dry, ventilated area away from any area where the fire hazard may be acute. Protect against freezing, physical damage and excess heat.
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SECTION 7 - HEALTH HAZARD & FIRST AID MEASURES

Carcinogen		Mutagen		Teratogen	
Reproductive Toxin		Synergist		Not Fully Investigated	XXXXXXXXxx

Hazardous in case of eye contact (irritant), of inhalation (lung irritant). Slightly hazardous in case of skin contact (irritant, sensitizer), of ingestion. The amount of tissue damage depends on length of contact. Eye contact can result in corneal damage or blindness. Skin contact can produce inflammation and blistering. Severe over-exposure can produce lung damage, choking, unconsciousness or death.

The substance may be toxic to teeth. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure of the eyes can produce eye irritation. Repeated skin exposure can produce local skin destruction, or dermatitis. Repeated inhalation can produce varying degree of respiratory irritation or lung damage. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin: Causes mild to moderate skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

Eyes: Causes moderate to severe eye irritation and possible injury.

Ingestion: May cause gastrointestinal (digestive) tract irritation with nausea, vomiting, diarrhea. Excessive intake may cause erosion of teeth and hypocalcemia (calcium deficiency in blood). May affect behavior/central nervous system (tremor, convulsions, muscle contraction or spasticity).

Inhalation: Causes moderate respiratory tract and mucous membrane irritation.

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In all cases get medical attention immediately.

SKIN:	Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes.
EYE:	Flush with water for 15 min. Seek medical attention immediately.
INHALATION:	Remove to fresh air. Give oxygen and call a physician.
INGESTION:	Administer water and call a physician or poison control center immediately. Do not induce vomiting.
PRIMARY ROUTE OF ENTRY:	skin, inhalation
EFFECT OF ACUTE EXPOSURE:	no known
EFFECT OF CHRONIC EXPOSURE:	not known
PREPARATION DATE:	November 1, 2008
PREPARED BY:	M. Banfield

ADDITIONAL INFORMATION:	
SOURCES USED:	MSDS for components

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SPRINGSTAR SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM THE HANDLING OF, OR CONTACT WITH, THE ABOVE PRODUCT.