

MATERIAL SAFETY DATA SHEET

Effective Date: Jan, 2008

Natures Own® Mulch (Hydroseeding Mulch)

Natures Own® Mulch is a registered trademark of Hamilton Mfg., Inc.

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Natures Own® Hydromulch	Manufacturer:
Chemical Formal:	(C <sub>1</sub> H <sub>15</sub> O <sub>5</sub> )-Na <sub>2</sub> SO <sub>4</sub> *C <sub>16</sub> H <sub>29</sub> O <sub>7</sub> SNa 2C <sub>23</sub> H <sub>25</sub> N <sub>2</sub> +3C <sub>2</sub> H <sub>2</sub> O <sub>4</sub>	
Chemical Family;	Hydromulch	Hamilton Manufacturing
CAS Registry Number:	Not Established	901 Russet Street
ACGIH TLV:	15 mg/m <sup>3</sup> (respirable)	Twin Falls, ID 83301
HMIS Rating:	Health 0 Reactivity 0 Flammability 1 Personal Protection "E"	Emergency Phone Numbers: Hamilton Mfg. 208-733-9689

HAZARD IDENTIFICATION

Emergency Overview: This product does not contain regulated levels of hazardous ingredients as defined in OSHA STANDARD 29 CFR 1910.1000.

Nature's Own® hydroseeding mulch is a green, odorless wood fiber material treated with harmless green liquid for color application control. This product does not present any unusual hazard if involved in a fire. Nature's Own® mulch presents little or no hazard (to humans) and has low acute oral and dermal toxicity.

POTENTIAL ECOLOGICAL EFFECTS:

This products inherent design is used with revegetation and is not harmful to ecological systems.

POTENTIAL HEALTH EFFECTS:

Rates of Exposure: Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not usually a concern because Nature's Own® mulch is not absorbed through intact skin.

Inhalation: Nature's Own® mulch is not likely to be hazardous by inhalation.

Eye Contact: Nature's Own® mulch is non-irritating to eyes in normal industrial use.

Skin Contact: Nature's Own® mulch does not cause irritation to intact skin.

Ingestion: Products containing Nature's Own® mulch are not intended for ingestion. Nature's Own® mulch has a relatively low acute toxicity. Swallowing large amounts may cause gastrointestinal symptoms.

Cancer: Nature's Own® mulch is not considered a carcinogen.

FIRST AID MEASURES

Inhalation: No special treatment is necessary since Nature's Own® mulch is not likely to be hazardous by inhalation. Prolonged exposure to dust levels in excess of regulatory limits should always be avoided.

Eye Contact: Use eye wash fountain or fresh water to cleanse eye. If irritation persists for more than 30 minutes, seek medical attention.

Skin Contact: Wash affected area with soap and water.

Ingestion: If swallowed, give two glasses of water to drink and seek medical attention.

FIRE FIGHTING MEASURES

General Hazard: None when in solution.

Flash Point:	Not Applicable
Flammable Limits LEL:	1
Flammable Limits UEL:	Not Applicable
Extinguishing Media:	Water
Special Fire Fighting Procedure:	None
Unusual Fire & Explosion Hazards:	None

ACCIDENTAL RELEASE MEASURES

General: Nature's Own® mulch is biodegradable and will not cause damage to trees or vegetation by root absorption.

Land Spill: Vacuum, shovel or sweep up Nature's Own® mulch and place containers for disposal in accordance with applicable state and local regulations. No personal protective equipment is needed to clean up land spills.

Water Spill: Nature's Own® mulch will not cause localized contamination of surrounding waters. There is no known damage at high concentrations to local vegetation, fish and other aquatic life. This products inherent design is to be used with other compatible revegetation products.

HANDLING AND STORAGE

<u>Storage Temperature:</u>	Ambient
<u>Storage Pressure:</u>	Atmospheric
<u>Special Sensitivity:</u>	None known.

General: No special handling precautions are required, but dry, indoor storage is recommended. To maintain package integrity, bags should be handled on a "first-in, first-out" basis.

EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Use local exhaust ventilation to keep airborne concentrations of Nature's Own® mulch dust below permissible exposure levels.

Personal Protection: Where airborne concentrations are expected to exceed exposure limits, NIOSH/MSHA certified respirators must be used. Eye goggles and gloves are not required for normal industrial exposures, but may be warranted if environment is excessively dusty.

Occupational Exposure Limits: Nature's Own® mulch is listed/regulated by OSHA, Cal OSHA and ACGIH as "Particulate Not Otherwise Classified" or "Nuisance Dust".

OSHA: PEL*	15 mg/m <sup>3</sup> total dust and 5 mg/m <sup>3</sup> respirable dust	*PEL = "Permissible Exposure Limit"
ACGIH: TLV**	5 mg/m <sup>3</sup> (respirable)	**TLV = "Threshold Limit Value"
Cal OSHA: PEL*	5 mg/m <sup>3</sup>	

**PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Green, fiber
Specific Gravity:	Not Established
Vapor Pressure:	Not Applicable
Solubility in Water:	Insoluble, Dispersible
Boiling Point:	Not Established
Melting Point:	Not Applicable
Ph:	6.0 +- .5
Viscosity:	Not Applicable
Chemical:	Green Liquid      Less than 2% Surfactant      Less than 2%
Fibrous Medium:	Greater than 96%

**STABILITY AND REACTIVITY**

**General:** Nature's Own® mulch is a stable product.

**Hazardous Decomposition:** Thermal decomposition may produce carbon monoxide and carbon dioxide.

**DISPOSAL CONSIDERATIONS**

**Disposal Guidance:** Small quantities of Nature's Own® mulch can usually be disposed of at Municipal Landfill sites. No specific disposal treatment is required, but refer to state and local regulations for applicable site-specific requirements. Tonnage quantities of product are not recommended to be sent to landfills. Such product should, if possible, be re-used for an appropriate application.

**California Hazardous Waste Designation:** California identifies substances with acute LD50's less than 5000 mg/kg as "hazardous wastes". Nature's Own mulch is therefore not a "hazardous waste" if spilled in California. Refer to Regulatory Information for additional information.

**TRANSPORT INFORMATION**

**DOT Hazardous Material Classification:** Nature's Own mulch® is not a U. S. Department of Transportation (DOT) Hazardous Material.

**DOT Hazardous Substance Classification:** Nature's Own® mulch is not a DOT Hazardous Substance.

**International Transportation:** Nature's Own® mulch has no U. N. Number, and is not regulated under international rail, highway, water, or air transport regulations.

**OTHER INFORMATION****National Fire Protection Association (NFPA) Classification:**

Health - 0  
Flammability - 1  
Reactivity - 0\*

**Hazardous Materials Information Systems (HMIS):**

Red: (Flammability) - 1  
Yellow: (Reactivity) - 0  
Blue: (Acute Health) - 1\*

\*Chronic Effects

**ADDITIONAL INFORMATION****Definition of Common Terms:**

ACGIH	=	American Conference of Governmental Industrial Hygienists
C	=	Ceiling Limit
CAS#	=	Chemical Abstracts System Number
IARC	=	International Agency for Research on Cancer
MSHA	=	Mining Safety and Health Administration
NAP	=	Not Applicable
NAV	=	Not Available
NIOSH	=	National Institute for Occupational Safety and Health
NTP	=	National Toxicology Program
OSHA	=	Occupational Safety and Health Administration
PEL	=	Permissible Exposure Limit
STEL	=	Short-Term Exposure Limit (15 minutes)
TLV	=	Threshold Limit Value
TWA	=	Time-Weighted Average (8 hours)

INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED DEPENDABLE, ACCURATE AND RELIABLE TO THE BEST OF OUR KNOWLEDGE AND BELIEF, BUT IT IS NOT GUARANTEED TO BE SO.

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