

Material Safety Data Sheet

Roots Organics Surge 2-2-0.5

Last Revision: March, 2013

Emergency Phone: (541) 913-9612

Product Identification

Name: **Surge**

Chemical description: Organic nutrients for plants, derived from: Marine fishery by catch, Kelp Extract (*Ascophyllum nodosum*), Molasses, and Langbeinite. Also contains: Humic Acid derived from Leonardite and Yucca Extract (*Yucca Schidigera*).

Hazardous components: pH adjusted with Phosphoric Acid (CAS 7664-38-2), 1-2%

Company: Aurora Innovations, Inc. (541) 359-1580 www.aurorainnovations.com

Physical/Chemical Characteristics

Boiling point	Above 212 F
Vapor pressure	Not determined
Vapor density	Not determined
Evaporation rate	Not determined
Melting point	NA
Specific gravity	1.04
pH	3.2
Solubility in water	Completely soluble
Appearance	Light Brown, tan
Odor	Non-offensive marine smell

Fire and Explosion Information

Flash point	Not applicable
Flammable limits	Not determined
Extinguishing media	Water, CO ₂
Special fire fighting procedures	No special methods required
Special fire and explosion hazards	None

Reactivity Data

Stability	Stable at normal temperatures
Conditions to avoid	None
Incompatibility	None
Hazardous decomposition	Ammonia, Carbon Oxides, and Nitrogen Oxides
Hazardous polymerization	Will not occur

Spill or Leak Procedures

Contain spill to prevent discharge into the environment. Absorb spill with appropriate material and flush with water.

Health Effects/First Aid Information

Inhalation: Avoid breathing vapors. Remove to fresh air, if breathing difficult, administer oxygen. Consult physician.

Eyes: In the event of eye contact, immediately rinse with water for 15 minutes or more and remove contact lenses.
Consult with a physician.

Ingestion: May cause nausea or headache. If swallowed contact a physician immediately for course of action.

Skin: Avoid contact with skin. May cause irritation. Immediately remove contaminated shoes or clothing.
Wash skin
or clothing with soap and water for 15 minutes or more. Consult a physician for skin any burns.

Carcinogenicity: Ingredients not listed as carcinogenic in OSHA, NTP or IARC listings.

Precautions for safe handling and use:

Respiratory protection: Not normally needed.

Ventilation: Typically none is required.

Protective gloves/clothing: Rubber or plastic if contact expected.

Eye protection: Chemical splash goggles recommended where splash hazard is possible.

Work practices: Use good housekeeping practices. Keep containers tightly closed.

Precautions for storing and handling: Avoid storage areas with high temperatures or direct sunlight.

Important:

The information and data herein are believed to be accurate and have been compiled from sources believed to be current and reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risks of use, storage and handling of product in compliance with applicable federal, state and local laws and regulations.

