



MATERIAL SAFETY DATA SHEET

For Avenger Organics Kelp Bio-Stimulant

Emergency Phone Numbers:

Cutting Edge Formulations: (678) 546-5009
CHEMTREC 24 Hour Number (800) 424-9300

Section 1 – IDENTIFICATION

Product Name: Avenger Organics Kelp Bio-Stimulant, a liquid concentrated cytoplasm from freshly harvested kelp, *Ascophyllum nodosum*. The mechanical manufacturing technique results in cellular shearing and rupturing, obviating the use of chemicals, heat, freezing or dehydration to ensure extended natural hormonal activity.

Organic Plant Bio-Stimulant

Section 2 – INGREDIENT INFORMATION

Avenger Organics Kelp Bio-Stimulant consists of:

Extract from kelp 100% IK
Water

Legend: T+ = Very Toxix, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant,
IK = No Classification Required, E = Explosive, O = Oxidizing, F+ = Extremely
Flammable, F = Very Flammable, Fo = Flammable, N = Dangerous to Environment,
Mu = Genetoxic, Sens = Sensitizing, Care = Carcinogen, Repr = Causes Birth Defects

Section 3 –HEALTH HAZARDS IDENTIFICATION

This product does not require labeling.

Section 4 –FIRST AID

GENERAL: Non-hazardous material. If irritation or discomfort occurs, seek medical advice from a physician.

EYE CONTACT: Non-irritating to ocular tissue. Immediately flush eyes with plenty of water. Keep eyes wide open while flushing. Seek medical attention if irritation occurs.

SKIN CONTACT: Non-irritating to skin. Wash with mild soap and water. Seek medical attention if discomfort occurs.

INHALATION: Non-toxic. Do not intentionally breathe vapors.

INGESTION: Non-toxic if ingested. Drink plenty of water or milk. Seek medical attention if discomfort occurs.

OVER EXPOSURE: Not applicable.

Section 5 – FIRE FIGHTING MEASURES

FLASH POINT: N/A

FLAMMABLE LIMITS: N/A

PROPER FIREFIGHTING EQUIPMENT: Use extinguishing media appropriate for surrounding fire. Caution: Slippery in liquid form or when mixed with water.

FIRE AND EXPLOSIVE HAZARDS: Non-flammable. Non-Explosive.

HAZARDOUS DECOMPOSITION MATERIALS: N/A

CONDITIONS TO AVOID FOR STABILITY: N/A

Section 6 – UNINTENTIONAL LIBERATION OR RELEASE MEASURES

SAFETY MEASUREMENTS TO PROTECT PERSONS: Gloves and eye protection should be worn when handling due to temporary staining.

PROPER METHODS FOR DAMAGE LIMITATION AND CLEANUP: Spills may be easily cleaned by removing as much solid as possible and washing remaining spill with copious amounts of water. Avoid loose product on floor in damp areas as product may become slippery with the addition of clean-up water. Gloves and eye protection should be worn due to temporary staining.

Section 7 – HANDLING AND STORAGE

HANDLING ADVICE: Avoid handling, which may cause staining. Use personal protective equipment as specified in section 8.

STORAGE: Store in a cool place and out of direct sunlight. Do not contaminate water, food or feed by storage or disposal.

Section 8 – EXPOSURE CONTROL AND PERSONAL PROTECTION

EXPOSURE CONTROL: No Specific ventilation requirements. Eyewash facilities should be available.

RESPIRATION PROTECTION: No respirator required.

EYE PROTECTION: Eye protection should be worn when handling due to temporary staining.

HAND PROTECTION: Gloves should be worn when handling due to temporary staining.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Color: Brown

Odor: Marine-like

Solubility: 100% Water Soluble

Melting Point/Range: Not Determined

Expl. Limit LEL-UEL. %-: n/a

Vapor Pressure: n/a

Decomposition Temp. Not Determined

pH Value: 3.5-4.0 (10% solution)

Flash Point: n/a

Molecular Weight: n/a

Ignition Temp.: 550°C

Rel. Vapor Density (air=1): n/a

Air Reactive: n/a

Percent Volatile (by Volume): n/a

Bulk Density: 0.65 g/cm³

Solubility in Water: 100% at 20° C

Saturation Concentrate: Not Determined

Rel. Density Sat. Air (Air=1): Not Determined

Boiling Point/Range: Not Determined

pH Concentrate: 10

Viscosity: n/a

Smelling Limits lo-hi: Not Determined

Rel. Evap. Velocity: Not Determined

Water Reactive: n/a

Section 10 – STABILITY AND REACTIVITY

STABILITY: Product is stable.

CONDITIONS TO AVOID: Excessive heat or freezing.

MATERIALS TO AVOID: Oxidants and acids may cause degradation.

HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable.

HAZARDOUS POLYMERIZATION: Will not occur.

Section 11 – TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY: Non-toxic orally at 1 g/kg.

ACUTE OCULAR TOXICITY: Non-irritating to the ocular tissue of non-irritated eyes (0.02 g). May cause redness and discomfort.

ACUTE DERMAL TOXICITY: Very slight to well-defined erythema without edema on skin. Repeated prolonged exposure may cause allergic reactions in susceptible persons.

INHALATION TOXICITY: Not hazardous by inhalation.

INGESTION TOXICITY: Significant amounts may cause nausea and discomfort.

Section 12 – ECOLOGICAL INFORMATION

BREAKDOWN: Biodegradable.

ECOTOXICITY: Plant nutritional supplement and growth stimulant, high concentrations may cause burn of plants.

ADDITIONAL INFORMATION: Avoid discharges into waterways. Product presents minimal environmental impact.

Section 13 – DISPOSAL CONSIDERATIONS

Not classified as hazardous waste. Product must be disposed of according to Federal, State or local procedures.

Section 14 – TRANSPORT INFORMATION

GENERAL: Non-hazardous material according to transport regulations. No special precautions are necessary.

Section 15 – REGULATORY INFORMATION

COMPOSITION: Extract from kelp (*Ascophyllum nodosum*)

R-PHRASES: The product does not require labeling. Marking according to hazardous product regulations is not required.

REFERENCES: The MSDS is prepared on basis of information given by the manufacturer.

Section 16 – OTHER INFORMATION

The information contained herein is based on current knowledge and experience: no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information obtained by the user. No warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment. This information is furnished upon the condition the person receiving it shall determine the suitability for the particular purpose. This MSDS is to be used as a guideline for safe work practices and emergency response.