

MATERIAL SAFETY DATA SHEET

Nitrozime® Plant Food

1. PRODUCT AND COMPANY

TRADE NAME Nitrozime Plant Food

APPLICATION Extract from Algae (*Ascophyllum nodosum*)

PRODUCER ADDRESS Hydrodynamics International Inc.
5711 Enterprise Drive
Lansing, MI 48911
Phone 517 887-2007
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2. COMPOSITION OF PRODUCT

No.	Ingredients Name	CAS-NO	Cons. (weight%)	Classification
1	Extract from Algae	n/a	100%	IK

Legend: T⁺ = Very Toxic, 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

3. HAZARD IDENTIFICATION

This product does not require labeling.

4. FIRST AID

GENERAL

Personal Protective Equipment (PPE) should be worn as described in section 8.

EYE CONTACT

Causes moderate eye irritation. In case of exposure, immediately flush eyes with plenty of water. Keep eyes wide open while flushing for 15-20 minutes. If wearing, remove contact lenses after the first 5 minutes. Call poison control or a doctor for treatment advice.

SKIN CONTACT

Harmful if inhaled or absorbed through skin. In case of exposure, wash with mild soap and water; rinse for 15-20 minutes. Call poison control or a doctor for treatment advice.

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.

5. FIRE FIGHTING MEASURES

FLASH POINT

Not applicable.

FLAMMABLE LIMITS

Not applicable.

PROPER FIREFIGHTING EQUIPMENT

Use extinguishing media appropriate for surrounding fire. Caution, slippery in liquid form or when mixed with water

FIRE AND EXPLOSION HAZARDS

Non-flammable. Non-explosive

6. UNINTENTIONAL LIBERATION OR RELEASE MEASURES

SAFETY MEASUREMENTS TO PROTECT PERSONS

Gloves, eye protection and other PPE should be worn as described in section 8.

PROPER METHODS FOR DAMAGE LIMITATION AND CLEANUP

Spills may be easily cleaned by removing as much material as possible and washing remaining spill with copious amounts of water. Product may become slippery with the addition of clean-up water. PPE should be worn as described in section 8.

7. HANDLING AND STORAGE

HANDLING ADVICE

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

STORAGE

Store in cool place and out of direct sunlight. Keep from freezing below -15° C. Do not contaminate water, food or feed by storage or disposal.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

EXPOSURE CONTROL

No specific ventilation requirements. EYEWASH FACILITIES should be available.

RESPIRATION PROTECTION

No respirator is 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.

PERSONAL PROTECTION

Personal Protective Equipment (PPE): long-sleeved shirt and long pants, waterproof gloves, shoes and socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions, for washables use detergent and hot water. Keep and wash PPE separately from other laundry

Safety Recommendations: Wash the outside of gloves before removing. Remove the PPE immediately after handling this product. As soon as possible wash whole body thoroughly and change into clean clothing.

User should wash hands before eating, drinking, chewing gum, using tobacco or using the washroom.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid	Air Reactive	n/a
Color	Black	Percent Volatile (by Volume)	n/a
Odor	Marine-like	Density	1.12 g/cc
Solubility	100% Water Soluble	Solubility in Water	100% at 20°C
Melting Point/Range	n/a	Saturation Conc.	Not Determined
Expl. Limit LEL-UEL. %-%	n/a	Rel. Density Sat. Air (Air=1)	Not Determined
Vapor Pressure	Not Determined	Boiling Point/Range	100°C (212° F)
Decomposition Temp.	Not Determined	pH Concentrate	8.0
pH Solution	8.0	Viscosity	<100 cP
Flash Point	Not Determined	Smelling Limits lo-hi	Not Determined
Molecular Weight	n/a	Rel. Evap. Velocity	Not Determined
Ignition Temp.	550°C	Water Reactive	n/a
Rel. Vapor Density (air=1)	Not Determined		

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

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY

Non-toxic orally at 5 g / kg

ACUTE OCULAR TOXICITY

Non-irritating to the ocular tissue of non-irritated eyes (0.1 ml) 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.

12. ECOLOGICAL INFORMATION

BREAKDOWN

Biodegradable

ECOTOXICITY

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

ADDITIONAL INFORMATION

Avoid discharges of liquid BOD into waterways. Product presents minimal environmental impact.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

GENERAL

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

PROPER SHIPPING NAME

Nitrozime Plant Food

Toll Reg. No.

HAZCHEM

ADR (Road)

UN No

Dang Goods

Class

Label

Haz Id. No

Marginno

RID (Railway)

UN No

Dang. Goods

Class

Label

Haz Id No

IMDG (Sea)

UN No

Dang Goods

Class

Label

Packaging Group

EmS

MFAG

Marine Pollutant

Sub Risk

Page

IATA (Airplane)

UN No

Dang. Goods

Class

Sub. Risk

Label

Packaging Group

15. REGULATORY INFORMATION

COMPOSITION

Extract from algae (*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.

16. OTHER INFORMATION

ISSUED:February 2006

VENDOR NOTES:

Every endeavor has been made to ensure that the information contained in this MSDS leaflet is reliable, but we cannot accept liability for any loss, injury or damage, which may result from its use or misuse. Data given in this MSDS is solely for the guidance in safe handling and use of the product by customers; they do not form part of any specification. If any difficulties arise, we shall be glad to discuss them. Customers are encouraged to conduct their own tests following discussion with our technical department. The above information is based on experience, but it is always advisable for customers to satisfy themselves, by consultation with our technical department and small-scale testing is necessary, that product, which they have selected, is suitable for their purpose under their conditions of use.