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SAFETY DATA SHEET

NAK MFG Soluble Seaweed Fertilizer Powder 0-15-11

1. Identification

Product Identifier: NAK MFG Soluble Seaweed Fertilizer Powder 0-15-11

Chemical Name: *Ascophyllum nodosum* extract in dry powder form

CAS No.: 84775-78-0

Rec. Use: Agricultural input, plant nutritional supplement

Type of Substance: Nonhazardous UVCB (Unknown or Variable Composition - Complex Reaction Product - or Biological Material) substance.

Manufacturer: North American Kelp

Address: 41 Cross Street
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Issued by: North American Kelp technical department

2. Hazards Identification

CAUTION. May cause moderate eye irritation. May cause mild skin irritation. Inhalation of dust may cause mild respiratory irritation.

3. Composition of Product

No.	Ingredient Name	CAS No.	Cons. (% w/w)	Classification
1.	Seaweed extract	84775-78-0	70%	No Classification Required
2.	Inert Ingredients	*	25%	No Classification Required
3.	Phosphoric acid	7664-38-2	5%	OSHA PEL / ACGIH TLV 1 mg/m ³

*Chemical identity withheld as a trade secret.

4. First Aid Measures

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

Generally non-irritating to skin. If skin contact occurs: If it is necessary to remove contaminated clothing to access skin in area of contact, please do so. Wash affected area promptly and thoroughly with mild soap and water; and rinse washed area. If irritation or discomfort occurs and persists, seek medical attention.

Inhalation

Dust may cause mild respiratory irritation. Handle product in well-ventilated space. Avoid creation of dust from handling of product. If dust inhalation occurs: Remove person to fresh air from dusty area. If person experiences irritation of mouth, nose, throat, and upper respiratory tract and/or difficulty in breathing, seek medical attention without delay.

Ingestion

Product is non-toxic by ingestion. Drink plenty of water or milk. Seek medical attention if discomfort occurs.

5. Fire-Fighting Measures

Flash Point

Not applicable.

Extinguishing media

Use extinguishing media appropriate for surrounding fire.

Special hazards arising from the substance or mixture

Non-flammable. Non-explosive.

Combustion Products

Not hazardous.

Precautions

Product may be slippery when mixed with water.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Wear suitable protective clothing, gloves, and eye protection. Spilled product mixed with water may be slippery; exercise caution.

Environmental precautions

Avoid unnecessary release to the environment. Prevent spillage from entering drains and/or surface water. Contain spill.

Methods and material for containment and cleaning up

Wear protective clothing. Sweep up or shovel up the dry product. Avoid creating dust. Wash remaining spill with copious amount of water. Liquid residues can be absorbed with clay or other suitable absorptive media. Dispose of in accordance with federal, state (province), and local regulations.

7. Handling and Storage

Precautions for safe handling

Avoid handling which may cause staining. Use PPE as described in section 8.

Storage

Store away from strong oxidizing agents. Store in cool, dry place and not in direct sunlight.

8. Exposure Control and Personal Protection

Exposure limits

None assigned.

Appropriate engineering controls

No specific ventilation requirements. Eye wash station is recommended.

Eye protection

Wear safety goggles to prevent staining and possible irritation of eyes.

Hand protection

Wear gloves when handling due to potential for temporary staining.

Personal Protection 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 laundry.

Safety Recommendations:

Wash outside of gloves before removal. Remove PPE immediately after handling of product. Wash whole body thoroughly and change into clean clothing as soon as possible after handling.

Follow best practices for pesticide application; always wash hands before eating, drinking, chewing gum, using tobacco, or using the washroom.

9. Physical and Chemical Properties

State	Powder
Color	Reddish-brown
Odor	Marine-like
Solubility	100% water soluble
Explosive properties	Not Determined
Oxidizing properties	Not Determined
pH (rehydrated concentrate)	4.5-5
Melting point	Not Determined
Boiling Point	Not Determined
Flash Point	Not Determined
Bulk Density	36 lbs./ft ³
Ignition temperature	550 °C

10. Stability and Reactivity**Reactivity**

Product is not reactive

Stability

Product is stable under typical conditions

Conditions to avoid

Avoid excessive heat and cold. Keep out of direct sunlight. Do not create dust. Avoid strong oxidizers.

Hazardous decomposition products

Not applicable

Hazardous polymerization

Not applicable

11. Toxicological information

Acute oral toxicity

Non-toxic via ingestion. Ingestion of significant quantities may cause discomfort and nausea.

Acute ocular toxicity

CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing.

Acute dermal toxicity

CAUTION. May cause mild skin irritation. Avoid contact with skin or clothing.

Acute dermal irritation

CAUTION. Avoid contact with skin or clothing.

Inhalation toxicity

CAUTION. May cause mild respiratory irritation. Do not intentionally breathe dust or vapors.

Skin sensitization

Slight reddening of the skin observed.

Chronic exposure

Not observed.

Carcinogenic properties

The product is not classified as carcinogenic.

12. Ecological information

Ecotoxicity

Used as crop fertilizer (nutritional supplement). High concentrations may cause plant burn. Nontoxic to marine algae, vertebrates and invertebrates.

Persistence and degradability

Biodegradable in nature. Persistence and bioaccumulation not anticipated. Soluble in water but soil binding expected. Used as crop fertilizer.

Groundwater considerations

Not harmful if accidentally discharged into groundwater. Use manufacturer recommendations for crop application rates. Do not allow large quantities of the product to reach groundwater, waterways, or sewage systems.

13. Disposal considerations

Not classified as a hazardous material. Dispose of in accordance with Federal, State/Province, and Local Authority regulations.

14. Transport information

Classified as non-hazardous material according to transport regulations. No special precautions are necessary.

15. Regulatory information

Classified as non-hazardous/not dangerous. Requires no special labels.

16. Other information

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Every effort has been made to ensure that the information contained in this SDS is reliable. However, North American Kelp cannot accept liability for any loss, injury, or damage, which may result from its use or misuse. This SDS is solely for guidance in safe handling and use of the product, and is not to be interpreted as part of any product specification. The above information is based on experience, but it is always recommended that customers verify the suitability of this product for their specific purpose and conditions of use through their own small-scale testing.