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SAFETY DATA SHEET

NAK MFG Concentrated Liquid Seaweed Fertilizer 0-4-4

1. Identification

Product Identifier: NAK MFG Concentrated Liquid Seaweed Fertilizer 0-4-4

Chemical Name: *Ascophyllum nodosum* extract

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
Waldoboro, Maine 04572, U.S.A.

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Issued by: North American Kelp technical department

2. Hazards Identification

CAUTION. Causes moderate eye irritation. Harmful if absorbed through the skin.

3. Composition of Product

No.	Ingredient Name	CAS No.	Cons. (% w/w)	Classification
1.	Kelp extract	84775-78-0	98%	No Classification Required
2.	Phosphoric Acid	7664-38-2	2%	OSHA PEL / ACGIH TLV 1 mg/m ³

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

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

Vapors are non-toxic; do not intentionally breathe vapors.

Ingestion

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

Over exposure

Not applicable.

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 make surfaces slippery.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Wear suitable protective clothing, gloves, and eye protection as described in section 8. Spilled product 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 / PPE as described in section 8. Remove as much product as possible. 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. Do not contaminate water, food or feed by storage or disposal.

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	Liquid
Color	Dark brown to black
Odor	Marine-like
Solubility	100% water soluble
Explosive properties	Not Determined
Boiling Point	218 °F
Oxidizing properties	Not Determined
pH	4.7-4.9
Melting point	Not Determined
Boiling Point	Not Determined
Flash Point	Not Determined
Specific Gravity	1.14

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. 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

Not toxic via dermal exposure. Avoid contact with skin or clothing.

Acute dermal irritation

CAUTION. Avoid contact with skin or clothing.

Inhalation toxicity

Non-toxic by inhalation. Do not intentionally breathe 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**

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.

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 waste 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

Issued March 2021

NOTE:

Every endeavor has been made to verify that the information contained in this SDS 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 SDS is solely for guidance in safe handling and use of the product by customers; they do not form part of any specification. 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 by small-scale testing, that this product which they have selected is suitable for their purpose under their conditions of use.