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SAFETY DATA SHEET

NAK MFG Concentrated Liquid Seaweed Extract 0-0-4

1. Identification

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

Chemical Name: *Ascophyllum nodosum*

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

Non-hazardous. This product does not require hazard Identification.

3. Composition of Product

No.	Ingredient Name	CAS No.	Cons. (% w/w)	Classification
1.	Kelp extract	84775-78-0	100%	No Classification Required

4. First Aid Measures

General

Non-hazardous material. Please refer to first aid measures below. If significant irritation or discomfort occurs and persists, please promptly seek medical advice from physician.

Eye contact

Generally non-irritating. If there is eye contact: Immediately irrigate/flush eye or eyes with large amounts of clean water for 10 minutes or longer if necessary. Keep eyes and

lids wide open when flushing. If person is wearing contact lenses, try to remove. Use eye wash equipment if it is available. Seek medical advice and attention if irritation occurs and persists.

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

Non-toxic by inhalation.

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 make surfaces slippery.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Wear suitable protective clothing, gloves, and eye protection. 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. 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

No special requirements. Avoid inhalation, ingestion, and direct contact with skin and eyes. Use personal protective clothing to prevent staining or other possible problems. Observe hygienic rules - Do not drink, eat, or smoke in work areas.

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.

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	1.24

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

Not irritating to ocular tissue

Acute dermal toxicity

Not toxic via dermal exposure.

Acute dermal irritation

No dermal irritation or corrosive effects observed.

Inhalation toxicity

Not hazardous by inhalation.

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 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.