
ALGIFERT-K-POWDER

MATERIAL SAFETY DATA SHEET

1. Basic Information

Company name:	Humos Manufacturing (Pty) Ltd.
Address:	PO Box 126, Elgin, 7180, SOUTH AFRICA
Contact numbers:	Fax: 021 9057235
Product Name:	Algifert-K Powder
Product type:	A spray dried water soluble powder
Odor:	Neutral
Derived from:	Ascophyllum nodosum
CAS Number:	68844-77-9; 9004-34-6
EPA Number:	Not regulated

Emergency Telephone: +(27) 21-8801758; CHEMTEC (24-Hours emergency number); (800) 4249300; EPA National Response Center; (800) 4248802.

2. Hazards Identification

Hazard Classification: Irritant
Hazardous Ingredient CAS # Limits: None

Not known to be hazardous to man or environment

3. Emergency/Hazards overview

Dark brown to black water soluble powder. Mild irritant to eyes and skin. Avoid contact with acidic substances. Not D.O.T regulated.

HEALTH: 1 REACTIVITY: 0 FLAMMABILITY: 0 ENVIRONMENT: 1

(0= Insignificant; 1= Slight; 2= Moderate; 3= High; 4= Extreme)

4. Potential Health Effects

Eyes and skin:	Mild irritant, may cause redness and burning
Ingestion:	Not determined
Inhalation:	None expected, but aerosol mist may cause mild irritation of nasal mucous membranes.

5. First Aid Measures

Threshold Limits:	N/A
Effects of overexposure:	Contains alkaline mixture. May be harmful if swallowed.
Emergency:	If ingested, dilute with large quantities of water or milk. Further dilution possible with diluted bi-carbon of soda. If spilled on skin wash off with water.
First aid procedures:	Contact a Physician immediately.
Other health warnings:	None

6. Physical and Chemical data

Appearance:	Dark brown to black powder
Odor:	Slightly acidic
pH:	8-9
Vapor pressure:	760mm Hg
Boiling point:	100°C
Freezing point:	N/A

Macro elements		Carbon, and moisture content		Micro-nutrients					
N	K	C	% Moisture	Cu	Fe	Mn	Zn	B	Mo
1-1.5%	10-12%	35-50%	2-8 %	1-6 ppm	50-200 ppm	5-12 ppm	10-100 ppm	20-100 ppm	1-5 ppm

7. Stability and Reactivity

Stability:	Stable
Conditions to avoid:	N/A
Incompatibility:	Contact with acidic materials.
Haz. decomposition products:	None known
Haz. polymerization:	Will not occur

8. Fire Fighting Measures

Flash point:	>211°C – cleveland cup method
Explosive limits:	not determined
Suitable extinguishing media:	water, fog, foam, dust
Special fire fighting procedures:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual fire explosion hazards:	None

9. Accidental Release Measures

Steps to be taken in case material is released or spilled:	Flush with large volumes of water.
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Waste disposal:

Follow federal, state and local regulations for liquid waste.

10. Handling and storage**Precautions to be taken:**

Store in original container in a dry place. Keep from heating or freezing. Keep out of reach of children.

11. Exposure controls/personal protection**Ventilation:****Work in ventilated area****Personal protective equipment:**

Respiratory protection:

Use appropriate respiratory protection if working in an enclosed environment

Protective gloves:

optional

Eye protection:

Wear goggles or glasses consistent for handling and applying fertilizers.

Other protective equipment:

Wear clothing consistent for handling and applying fertilizers

12. Stability and Reactivity**Stability:**

Stable

Incompatibility

None known

Hazardous decomposition products:

If burned, CO, CO₂ and SO₂, may be detected

13. Ecological Information

Algal/Lemna growth inhibition:

Not known

Toxicity to Fish and Invertebrates:

Not known

Toxicity to plants:

None

Toxicity to birds:

None known

14. Transportation

D.O.T. information.

Not D.O.T. Regulated

Other shipping description:

Fertilizing compounds – manufactured, liquid
NMFC item Sub 6, LTL Class 70

15. Regulatory Information

CERCLA:	None
SARA Title III, Section 313 toxic chemical:	None
PROPOSITION 65 (CA):	None

16. Other Information

The above information is believed to be correct, but does not purport to be all-inclusive and shall be used only as a guide. Humeost Manufacturing shall not be held liable for any damage resulting from contact with the above product.

17. First Aid Measures

Threshold Limits:	N/A
Effects of overexposure:	Contains alkaline mixture. May be harmful if swallowed.
Emergency:	If ingested, dilute with large quantities of water or milk. If spilled on skin wash off with water.
First aid procedures:	Contact a Physician immediately.
Other health warnings:	None

18. Fire Fighting Measures

Flash point:	>211°C – cleveland cup method
Explosive limits:	not determined
Suitable extinguishing media:	water, fog, foam, dust
Special fire fighting procedures:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual fire explosion hazards:	None

19. Accidental Release Measures

Steps to be taken in case material is released or spilled:

Flush with large volumes of water.

Waste disposal:

Follow federal, state and local regulations for liquid waste.

20. Handling and storage

Precautions to be taken:

Store in original container in a dry place. Keep from heating or freezing. Keep out of reach of children.

Other precautions: None.

21. Exposure controls/personal protection

Ventilation:

Work in ventilated area

Personal protective equipment:

Respiratory protection:	Use appropriate respiratory protection if working in an enclosed environment
Protective gloves:	optional
Eye protection:	wear goggles or glasses consistent for handling and applying fertilizers.
Other protective equipment:	wear clothing consistent for handling and applying fertilizers

22. Stability and Reactivity

Stability:

Incompatibility
Hazardous decomposition products:

Stable

None known
If burned, CO, CO₂ and SO₂, may be detected

23. Toxicological Information

May be harmful by ingestion. No toxicological data available to the best of our knowledge.

24. Other Information

The above information is believed to be correct, but does not purport to be all-inclusive and shall be used only as a guide. Humos Manufacturing shall not be held liable for any damage resulting from contact with the above product.

25. Emergency Telephone numbers

Emergency Telephone: +(27) 21-8801758; CHEMTEC (24-Hours emergency number); (800) 4249300; EPA National Response Center; (800) 4248802