

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/12/2015

Reviewed on 05/12/2015

*** 1 Identification**

- **Product identifier**
- **Trade name:** Elyxir®
- **Relevant identified uses of the substance or mixture and uses advised against**
For agricultural use only. Not for human or animal consumption.
- **Product description**
A commercial agricultural product used to improve soil and/or plant health and for improved growth.
NPK Values: 0 - 0 - 4
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Actagro, LLC
677 W. Palmdon Dr. #108
Fresno, CA 93704
Phone: (559) 369-2222
Fax: (559) 843-2845
- **Emergency telephone number:** INFOTRAC: (800) 535-5053

*** 2 Hazard(s) identification**

- **Classification of the substance or mixture**
The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.
- **Label elements**
- **GHS label elements** Non-Regulated Material
- **Hazard pictograms** Non-Regulated Material
- **Signal word** Non-Regulated Material
- **Hazard statements** Non-Regulated Material
- **Unknown acute toxicity:**
If skin irritation occurs: Get medical advice/attention; Avoid breathing spray; Use personal protective equipment as required; Keep out of the reach of children. This product will stain skin upon prolonged exposure
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

*** 3 Composition/information on ingredients**

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Substance Name: *Ascophyllum nodosum*, extract
Substance Description: 30% w/v soluble seaweed extract from *Ascophyllum nodosum* brown algae
Note: Confidential business information has been omitted
EC number: 283-907-6
CAS number: 84775-78-0

* 4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Generally the product does not irritate the skin.
Wash areas with soap and water.
If skin irritation occurs, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Consume large amounts of water. If symptoms persist, consult a physician.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

* 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
Fire fighters should wear personal protective equipment to prevent contamination of skin, eyes and personal clothing. Slippery in liquid form or when mixed with water.
- **Advice for firefighters**
- **Protective equipment:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Material can create slippery conditions.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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* 7 Handling and storage

Precautions for safe handling:

- Eating, drinking and smoking in work areas is prohibited.
- Use personal protective equipment to prevent contamination of skin, eyes and personal clothing.
- Avoid breathing mist/spray.
- If irritation occurs: Get medical advice/attention.
- Keep out of reach of children.
- Avoid excessive handling which may cause staining of skin.
- Wash your hands after use.

Precautions for safe storage:

- Keep in original container, tightly closed.
- Store in a suitable cool, dry location, out of direct sunlight, away from direct sources of heat.
- Protect from frost.
- Keep away from food, drink and animal feeding stuffs.

* 8 Exposure controls/personal protection

Engineering Controls:	Advisable to spray product in a well-ventilated area. Do not intentionally breathe spray.
Respiratory Protection:	No respirator is required.
Hand Protection:	Wear rubber or nitrile gloves to prevent staining of skin.
Skin Protection:	Wear a water impermeable bodysuit to prevent staining of skin.
Eye Protection:	Wear chemical goggles. Eyewash facilities should be available.



Safety glasses

- **Body protection:** Not required.

* 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**

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Appearance:	Black/brown liquid
Odour:	Marine
Odour Threshold:	Not determined
pH:	8.0 – 10.0
Melting Point/Freezing Point:	Not determined
Initial Boiling Point/Boiling Range:	Data lacking
Flash Point:	N/A
Evaporation Rate:	Not determined
Flammability:	Non flammable
Upper/lower flammability or exposure limits:	Not determined
Vapour Pressure:	Not determined
Vapour Density:	Not determined
Relative Density:	1.13 – 1.15 kg/L
Solubility:	≥99% water soluble
Partition Coefficient: n-octanol/water:	Not determined
Auto-ignition Temperature:	550 °C
Decomposition Temperature:	Not determined
Viscosity:	<300 cP

* 10 Stability and reactivity

General: Stable under recommend storage conditions. It can be stored for 2 years in unopened containers.

Incompatible Materials: Do not mix with highly acidic chemicals. Oxidants and acids may cause degradation.

Conditions to Avoid: Avoid direct sunlight, protect against excessive heat and freezing.

Hazardous Decomposition Products: N/A

* 11 Toxicological information

Acute oral toxicity:	Ingestion of large amounts may induce nausea.
Skin corrosion/irritation:	No sensitisation effects have been observed
Serious eye damage/irritation:	Data lacking
Respiratory or skin sensitisation:	Data lacking
Germ cell mutagenicity:	Data lacking
Carcinogenicity:	Data lacking
Reproductive toxicity:	Data lacking
STOT – single exposure:	Data lacking
STOT – repeated exposure:	Data lacking
Aspiration hazard:	No sensitisation effects have been observed

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* 12 Ecological information

Ecotoxicity: High concentrations may cause scorching in plants. Not toxic to vertebrates, invertebrates or marine algae.

Persistence and Degradability: Components are readily biodegradable.

Bioaccumulative Potential: Biodegradable. Product presents minimal environmental impact.

Spillages: Prevent the spillage from entering watercourses, sewers or drains if possible. Inform the authorities if gross contamination of water is threatened or occurs.

* 13 Disposal considerations

Product Disposal: Consult the local authorities for advice on disposal of unwanted or waste product.

Packaging Disposal: Dispose of containers as local regulations allow.

Personal Protection: Person carrying out disposal should wear PVC gloves.

Caution: Do not contaminate surface waters or ditches with product or used containers.

* 14 Transport information

14.1 LAND TRANSPORT

DOT Shipping Description: NOT REGULATED.

U.S. Surface Freight Classification: FERTILIZING COMPOUNDS (MANUFACTURED FERTILIZERS), NOI, LIQUID (NMFC 68140, SUB 6; CLASS 70)

* 15 Regulatory information

Composition: Ascophyllum nodosum, extract

H-Statements: None

P-Statements: P102: Keep out of reach of children
P261: Avoid breathing spray
P281: Use personal protective equipment as required
P332/313: If skin irritation occurs: Get medical advice/attention

R-Phrases: None

S-Phrases: S2: Keep out of the reach of children
S23: Do not breathe spray
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection

16 Other information

The above information is intended to give health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the use of the product, for which purpose the product label and any appropriate technical usage literature available should be consulted and any relevant licences, consents or approvals complied with. The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate to the best of the issuer's available knowledge at the date of publication, and will be updated as and when appropriate. No liability will be accepted for any loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.