



MSDS – Material Safety Data Sheet

LAST REVISED: August 19, 2013
MSDS NO.: ACAF 49

EKLO

1. IDENTIFICATION OF THE SUBSTANCE

Product Identification: Green liquid
Use: Agriculture
UN No.: Not regulated

Supplier: HydroGro LLC
7201 E. Camelback Rd. # 295
Scottsdale, AZ 85251

Emergency number: 911 or insert your local poison control or applicable emergency contact telephone number

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition: Natural kelp (*Ecklonia maxima*) suspension containing cytokinins and auxins.

Nitrogen	(N)	2.0 g/l
Phosphorus	(P)	39.5 mg/l
Potassium	(K)	425.5 mg/l
Sulphur	(S)	0.5 g/l

3. HAZARDS IDENTIFICATION

Emergency Overview

- May cause mild eye irritation.
- Mildly harmful if swallowed.

Potential Health Effects

Inhalation:

Not harmful if inhaled.

Ingestion:

Mildly harmful if swallowed.

Skin Contact:

Causes very mild skin irritation. Not significantly absorbed through the intact skin.

Eye Contact:

Causes mild irritation to eyes.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

4. FIRST AID MEASURES

Inhalation:

Remove to fresh air. If not breathing gives artificial respiration. If breathing is difficult, give oxygen. Qualified medical personnel should perform administration of oxygen. Keep person at rest and warm. Treat symptomatically and supportively as and when required. Obtain medical advice if necessary.

Ingestion:

Have victim rinse mouth thoroughly with water. Give water to dilute the material if victim is alert and not convulsing. Do not induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomits, rinse mouth and administer more water. Never give anything by mouth to an unconscious person. Seek medical advice if necessary.

Skin Contact:

Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use. Thoroughly clean shoes before re-use.

Eye Contact:

Immediately flush eyes with lukewarm water or saline solution for at least 15 minutes, lifting lower and upper eyelids occasionally. Check for and remove contact lenses after 5 minutes of flushing. Get medical attention if necessary.

5. FIRE FIGHTING MEASURES

Fire:

Not considered to be a fire hazard. Some could burn, but none ignite readily. Containers could explode when heated.

Fire Extinguishing Media:

Extinguish small fires with carbon dioxide, dry powder or alcohol-resistant foam. Water spray or fog can be used for larger fires or cooling of unaffected stock.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-face piece operated in the pressure demand or other positive pressure mode. Fire may produce irritating or poisonous vapours, mists or other products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.

Small Spills:

Absorb with sand or other non-combustible absorbent material and put in a suitable container for reclamation or disposal.

Large Spills:

Dike far ahead of liquid spills for later disposal. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. After spill have been cleaned up, wash area. Dispose of at an approved waste incinerator or landfill site.

7. HANDLING AND STORAGE

Handling:

Keep out of reach of animals, children and uninformed persons. Observe all warnings and precautions listed for the product.

Storage:

Keep in tightly closed container in a shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Protect against physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation system:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Skin Protection:

Wear suitable personal protective equipment including overalls, rubber boots and gloves.

Eye Protection:

Use chemical safety goggles and/or full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid; green suspension
Odour:	Slight marine odour
Solubility:	Soluble in water
pH:	5.0 – 6.5
Density:	1.01 g/ml
Boiling point:	> 100 °C

10. STABILITY AND REACTIVITY

Stability:	Stable under ordinary conditions of use and storage.
Hazardous Polymerisation:	Will not occur.
Conditions to avoid:	No information found.
Incompatibilities:	None known
Thermal Decomposition:	Under fire conditions this product may decompose to liberate toxic carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂) and sulfur oxides (SO ₂ , SO ₃).

11. TOXICOLOGICAL INFORMATION

No information found.

12. ECOLOGICAL INFORMATION

Environmental Fate:	No information found.
Environmental Toxicity:	No information found.

This section is subject to further development.

13. DISPOSAL CONSIDERATIONS

Contaminated absorbents, surplus product (in diluted form), etc., should be buried in approved landfill. Comply with any local legislation applying to waste disposal. Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to an approved waste facility. Dispose of container and unused contents in accordance with local environmental control regulations.

14. TRANSPORT INFORMATION

UN No.:	Not regulated
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15. REGULATORY INFORMATION

- EC Classification:** No information found.
- Risk-Phrases:** R36/37/38 – Irritating to eyes, respiratory system and skin.
- Safety-Phrases:** S2 – Keep out of reach of children.
S24/25 – Avoid contact with skin and eyes.
S36/37/29 – Wear suitable protective clothing, gloves and eye/face protection.
- National (South Africa) Legislation:**
National Road Traffic Act, 1996 (Act 93 of 1996).
Fire Brigade Service Act, 1987 (Act 99 of 1987).
Occupational Health and Safety Act, 1993 (Act 85 of 1993).
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16. OTHER INFORMATION

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

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