Material Safety Data Sheet – Granular fertilizer

8-16-8 Hyper Roots with Carboxy®

SECTION 1. Chemical Product and Company Identification

Trade Name: **8-16-8 Hyper Roots with Carboxy®**
Grade: Liquid
CAS Registry Number: n/a
Product Use: Fertilizer

Manufacturer:
Enviro-Sol, Division of Ferti Technologies Inc.
560 Chemin Rhéaume c.p. 129
St-Michel (Québec)
CANADA
J0L 2J0

Date of first issue: November 20, 2012
Modification date: May 8, 2014
Responsible: Jérémie Savard
In case of emergency:
CANUTEC: (613) 996-6666
CHEMTREC: 1-800-424-9300
Enviro-Sol : (450) 454-7521

SECTION 2. Composition/Information on Ingredients

Hazardous Material:	CAS Number	% by weight	OSHA Permissible Limit Exposure
No hazardous material			

Additional Ingredients:	CAS Number
Potassium Chloride	7447-40-7
Urea	57-13-6
Ammonium Nitrate	6484-52-2
Ammonium Polyphosphate	68333-79-9
Phosphoric Acid	7664-38-2
Potassium Hydroxide	1310-58-3

SECTION 3. Hazards Identification

Emergency Overview:	**No significant immediate hazards for emergency responses are known.**
CAUTION:	**Contact with dust may cause discomfort and/or mild irritation to skin, eyes, nose and lungs. Avoid breathing dust.** **Do not ingest. May irritate mouth, stomach, etc.**
Physical state (25^{0}C/77^{0}F):	**Black liquid, no odour.**

SECTION 4. First Aid Measures

Inhalation:	Bring subject to a well ventilated area. Contact a physician if symptoms persist.
Skin:	Wash with plenty of water.
Eyes:	Flush eyes with large quantities of running water for a minimum of 15 minutes. Remove contact lenses. Rinse the entire surface of the eye and lid with water. Call a physician if eye irritation occurs.
Ingestion:	Harmfull if swallowed. Seek medical care. Do not induce vomiting.

SECTION 5. Fire Fighting Measures

Flammability limits in	**Air** (%): n/a **UEL**: n/a **LEL**: n/a
Fire extinguishing media:	Use media appropriate to surrounding fire.
Fire fighting procedures:	Use a stream of water to cool containers and surfaces exposed to fire and to dissipate vapours. Use a self-contained respirator.
Other fire or explosion Hazards:	Toxic gases may be released at elevated temperature.

SECTION 6. Accidental Release Measures

Small release:	Stop leak or spill. Collect for re-use. Contain runoff by diking. Prevent spills from entering water courses, basement or closed area. Wear appropriate personal protective equipment for cleanup.
Release to water:	Reclaim as much product as possible to avoid further contamination.

SECTION 7. Handling and Storage

Handling:	Wear suitable personal protective equipment. Avoid inhalation and prolonged or repeated contact with eyes and skin.
Storage:	Store in a dry, ventilated area, away from food and seed. Keep at ambient temperature. Keep out of reach of children.

SECTION 8. Exposure Controls and Personal Protection

Exposure limits:	n/a
Personal protection:	Skin contact with the product should be prevented with the use of appropriate protective clothing and gloves (nitrile gloves are recommended). Wear safety glasses with side-shields to avoid eye contact.
Respiratory:	If dust is generated, use a NIOSH-approved respiratory mask.
Ventilation:	Provide good ventilation if dusty conditions prevails.

SECTION 9. Physical and Chemical Properties

Physical state:	Liquid
Appearance	Black liquid
Odour:	No odour
Melting point (°C/°F):	**n/a**
Bulk Density:	1.3050 kg/L
Solubility:	Completely soluble in water
pH:	n/a

SECTION 10. Stability and Reactivity

Under Normal Conditions:	Stable
Under Fire Conditions:	Stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Extreme temperatures
Materials to Avoid:	Strong oxidizing agents, chlorates, hypochlorites
Hazardous Decomposition or Combustion Products:	Cyanuric acid, sulfur oxides, nitrogen oxides, carbon oxides

SECTION 11. Toxicological information

Recommended Exposure Limit:	None recommended for this product
Toxicological Data:	None known
Carcinogenicity Data:	Ingredients of this products are not listed as carcinogens by OSHA or NTP and are not rated by IARC or ACGIH.
Reproductive Effects:	No data available
Mutagenicity Data:	No data available
Teratogenicity Data:	No data available
Synergistic Materials:	None known

Effects of exposure when

Inhaled:	Dust is irritating to nose, throat and respiratory tract. May cause coughing or sneezing.
In contact with the skin:	Prolonged and repeated contact may cause mild irritation.
In contact with the eyes:	Dust may cause mild irritation and due to abrasiveness may cause eye damage if untreated.
Ingested:	Ingestion may cause gastrointestinal upset, abdominal pain and diarrhea.
Other health effects:	High concentration of urea in the blood increases the risk of glaucoma.

SECTION 12. Ecological information

May be harmful to aquatic life. In sufficient quantity may deplete oxygen required by aquatic life. May cause eutrophication of ponds and lakes.

Deactivating chemical: None required

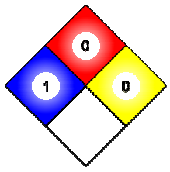
SECTION 13. Disposal considerations

Suitable for use as agricultural/horticultural fertilizer. Consult local authorities. **Do not dispose of waste with normal garbage or into water systems**.

SECTION 14. Transport Information

DOT/TDG Classification Not controlled under DOT (USA) or TDG (Canada).

SECTION 15. Regulatory Information

NFPA Classification	Transport DOT/TDG	WHMIS Classification	Protective clthing
	Not regulated	Not regulated	
Health hazard:1(Slightly hazardous) **Fire hazard**: 0 (Will not burn) **Instability hazard**: 0 (Stable) **Specific hazard**: None			

SECTION 16. Other Informations

References : Commission de la santé et de la sécurité au travail, http://www.reptox.csst.qc.ca
United States Department of labor, Occupational Safety and Health Administration, http://www.osha.gov/
Report on Carcinogens, Eleventh Edition; U.S. Department of Health and Human Services, Public Health Service, National Toxicology Program. http://ntp.niehs.nih.gov/index.cfm?objectid=32BA9724-F1F6-975E-7FCE50709CB4C932
List IARC Carcinogenic Agents 2010, International Agency for Research on Cancer, http://monographs.iarc.fr/ENG/Classification/Listagentsalphorder.pdf
Material Safety Data Sheet from our suppliers

Definitions of abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service
DOT	Department of Transportation
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit for Flammable Gases and Vapor
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
TDG	Transport of Dangerous Goods
UEL	Upper Explosive Limit for Flammable Gases and Vapor
WHMIS	Workplace Hazardous Materials Information System

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