



MATERIAL SAFETY DATA SHEET

12-32-6 Root Starter

SECTION 1. Chemical Product and Company Identification

Trade name: 12-32-6 Root Starter
Grade: Reg (SGN 225)
CAS registry number: n/a
Chemical name: n/a
Synonym: n/a
Product Use: Fertilizer

Manufacturer: NUTRITE, Division of Ferti Technologies Inc.
560 Rhéaume
St-Michel (Québec)
CANADA
J0L 2J0

Date of first issue: June 26, 2012
Modification date: **August 29, 2016**
Responsible: Armand Didier
In case of emergency: **CANUTEC : (613) 996-6666**
CHEMTREC: 1-800-424-9300
NUTRITE : (450) 454-1990

SECTION 2. Composition/Information on Ingredients

Hazardous Material:	CAS number	% by weight	OSHA Permissible Limit Exposure
No hazardous material			
Additional ingredients:	CAS number		
Monobasic ammonium phosphate	7722-76-1	61.5 %	
UFLEXX		11.4 %	
Urea	57-13-6		
Dicyandiamide	461-58-5		
Non hazardous dye			
N-(n-butyl)-thiophosphoric triamide	94317-64-3		
N-Methyl-2-pyrrolidone	872-50-4		
Non hazardous component	-		
White potash		9.7 %	
Potassium chloride	7447-40-7		
Sodium chloride	7647-14-5		
Calcium and magnesium; chlorides and sulfates			
Calcium carbonate		7.9 %	
Limestone	1317-65-3		
Crystalline silica	14808-60-7		
Calcitic lime	1317-65-3	5.6 %	
Iron oxysulfate		1.7 %	

Iron oxide	1309-37-1	
Iron sulfate	7720-78-7	
Calcium oxide	1305-78-8	
Zinc oxysulfate		1.2 %
Oxides & sulfates of zinc		

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SECTION 3. Hazards Identification

Emergency overview:	This product contains crystalline silica, known to be carcinogen for humans.
CAUTION:	Contact with dust may cause discomfort and/or mild irritation to skin, eyes, nose and lungs. Avoid breathing dust. Do not ingest. May irritates mouth, stomach, etc. May cause cancer. Wash thoroughly after handling.
Physical state (25°C/77°F):	Multicolor solid granules, slightly organic 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.

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SECTION 9. Physical and Chemical Properties

Physical state: Solid
Appearance Multicoloured granules
Odour: Slightly organic odour
Melting point (°C/°F): n/a
Bulk Density: 61 lbs/ft³, 976 kg/m³
Solubility: Partially 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



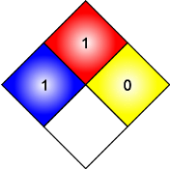


Suitable for use as agricultural/horticultural fertilizer. Consult local authorities. **Do not dispose of waste with normal garbage or into water systems.**

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SECTION 14. Transport Information

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

SECTION 15. Regulatory Information

NFPA Classification	DOT/TDG Pictogram	WHMIS Classification	Protective clothing	
	<p>DOT Not regulated</p>	<p>Not regulated</p>		
<p>Health hazard: 1 (Slightly hazardous) Fire hazard: 1 (Could burn) Instability hazard: 0 (Stable) Specific hazard: None</p>	<p>TDG Not regulated</p>			

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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