



SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200

Section 1: Chemical Product and Company Identification

CHEMICAL SUPPLIER COMPANY NAME

Agroplasma, Inc.
5865 S. Kyrene Rd Suite 1
Tempe, AZ 85283

EMERGENCY TELEPHONE

Chemtrec CCN 725453
Chemtrec U.S.-Canada: 800-424-9300
Information: 480-361-1300
Fax: 480-500-5967

MANUFACTURER'S NAME: Agroplasma, S. L.
ADDRESS: C/ Torre del Mar Nr. 56, Malaga, Spain
TELEPHONE NUMBER: 34 952 382 437

DATE PREPARED: April 26, 2015

REVISION DATE: September 20, 2018

PRODUCT NAME: **Microelements 1-0-0**
FORMULA: Preparation/Mixture
PRODUCT USE: Plant energizers and fertilizers designed for both conventional and organic farming.

Blend of plant nutrients derived from soy protein hydrolysate.
Guaranteed Analysis: Total Nitrogen 1%

Section 2: Hazards Identification

GHS Hazard Class Not Applicable. This product does not meet the physical, health, or environmental classification criteria of GHS (Globally Harmonized System).

Hazards not otherwise classified (HNOC) or not covered by GHS - None

HAZARD CLASSIFICATION: Not classified as hazardous based on IATA, IMDG, and DOT.
FIRE AND EXPLOSION: Not considered flammable or combustible, but this product will burn if involved in a fire.
POTENTIAL HEALTH EFFECTS: <0 % of mixture consists of ingredients of unknown acute toxicity

APPEARANCE: Dark brown liquid

NFPA Rating:

Component	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
Microelements 1-0-0-0	1	0	0	-----

Section 3: Composition, Information on Ingredients

PRODUCT COMPOSITION	APPROX %	CAS NO.	EINECS/ELINCS	CANADA DSL
Soy Protein Hydrolysate	<15	N/A	N/N	N
Algae extract and other plant beneficial materials	>80	-----	-----	-----

Some items on this SDS may be designated as trade secrets (TS). Bonafide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

Section 4: First Aid Measures

Description of First Aid Measures

Inhalation	Remove to fresh air. If not breathing, provide CPR (cardio pulmonary resuscitation). Get immediate medical attention.
Skin Contact	Immediately wash skin with plenty of soap and water. Remove contaminated clothing.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.
Ingestion	If swallowed do not induce vomiting, give large quantities of water to drink. Never give anything to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

Due to the type and nature of the substances present in this product, no special First Aid advices are necessary.

Symptoms/Injuries after Inhalation	May cause respiratory tract irritation from dust inhalation.
Symptoms/Injuries after Skin Contact	May cause skin irritation. Symptoms may include redness, drying, defatting, and cracking of the skin.
Symptoms/Injuries after Eye Contact	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/Injuries after Ingestion	May be harmful if swallowed

Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately.

Section 5: Fire-fighting Measures

Suitable extinguishing media	Non-combustible product. Use an appropriate extinguishing media and technique for underlying cause of fire.
Special hazards arising from the substance or mixture	Fire may produce a thick black smoke. As a consequence of thermal decomposition, dangerous chemicals may be formed such as; carbon monoxide and carbon dioxide. Exposure to the combustion by-products may be hazardous to human health.
Protective actions fire-fighters	Wear standard protective equipment and self contained breathing apparatus for firefighting if necessary.
Further information	None

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Wear proper personal protective equipment. Avoid breathing dust.

Environmental precautions

This product is not classified as dangerous to the environment.
Prevent spills or contaminated rinse water from entering sewers or watercourses.

Methods and materials for containment and cleaning up

Contain spill. Collect all dry material and discard properly. For liquids, use an appropriate absorbent material such as diatomaceous earth, sand or cat litter, and dispose of properly. See Section 13 for more details.

Reference to other Sections For personal protection reference section 8. For disposal reference section 13.

Section 7: Handling and Storage

Precautions for safe handling

This product does not require special handling procedures, but it is advisable to follow the following recommendations.
 Use with adequate ventilation.
 For personal protection see Section 8. Wash hands after handling this material.
 Appropriate container should be used for disposal.
 Refrain from eating, smoking, or drinking where the product will be mixed or applied. .
 Follow local laws pertaining to workplace safety and hygiene.

Conditions for safe storage, including any incompatibilities

This product does not require special storage. It is advisable to follow general good storage practices, such as avoiding nearby sources of heat, excessive humidity, electricity, radiation, or storing together with food items.
 Avoid contact with strong oxidizing or reducing materials.
 Avoid storing in places susceptible to sub-freezing temperatures, as well as temperatures above 120 degrees F.
 Store in a dry and well ventilated place.
 Keep out of reach of children.
 Store unblended in original containers.

Specific uses

This product is a plant energizer and fertilizer designed for both conventional and organic farming.

Section 8: Exposure Controls/Personal Protection

Control Parameters

PRODUCT COMPOSITION	ACGIH TLV	OSHA PEL	NIOSH REL
Product liquid	-----	-----	-----
Soy Protein Hydrolysate	-----	-----	-----

Exposure controls

VENTILATION:

RESPIRATORY PROTECTION:

Always provide good ventilation where this chemical/material is used.
 Wear air supplied respiratory protection if exposure concentrations are unknown. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter. Wear respiratory protection during operations where spraying or misting occurs. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

PROTECTIVE GLOVES:

EYE PROTECTION:

SKIN PROTECTION:

WORK/HYGIENE PRACTICES:

Neoprene, butyl, or nitrile rubber gloves are recommended.
 Recommend eye protection using safety glasses or goggles.
 Suitable protective clothing to prevent skin contact
 Avoid breathing vapor. Avoid contact with eyes. Wash hands after handling.

Section 9: Physical and Chemical Properties

	PRODUCT CRITERIA
APPEARANCE - COLOR:	Dark Brown
PHYSICAL STATE:	Liquid
ODOR:	Slight musky odor
ODOR THRESHOLD	Not Available for product
PH	4.1 – 4.3
MELTING POINT/FREEZING POINT:	Not Available for product
INITIAL BOILING POINT AND BOILING RANGE:	Not Available for product
FLASH POINT:	Not Available for product
EVAPORATION RATE:	Not Available for product
FLAMMABILITY (Solid, gas)	Not Available for product
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not Measured
VAPOR PRESSURE	Not Available for product
VAPOR DENSITY (AIR = 1)	Not Available for product



RELATIVE DENSITY (@25 °C):	9.78 lbs/gal.
SOLUBILITY(IES)	Soluble in water
OXIDIZING PROPERTIES	Not Available for product
PARTITION COEFFICIENT: n-octanol/water	Not Available for product
AUTO IGNITION TEMPERATURE	Not Available for product
DECOMPOSITION TEMPERATURE	Not Available for product
VISCOSITY	Not Available for product

Section 10: Stability and Reactivity

Reactivity:	Not reactive.
Chemical Stability:	Stable under normal storage conditions and handling
Possibility of Hazardous Reactions:	Will not occur
Conditions to Avoid:	Avoid high temperatures above 125 °F., or acid contamination.
Incompatibility (Materials to Avoid):	Keep away from strong acids or bases to avoid exothermic reactions
Hazardous Decomposition Products:	None

Section 11: Toxicological Information

There is no toxicological information available for the product mixture.

GHS Required Criteria	Toxicity Criteria	Toxicity Information	Comments	Chemical Constituent
Acute Toxicity		Data not available		
Skin Corrosion/Irritation		Data not available		
Serious Eye Damage / Eye Irritation		Data not available		
Respiratory or Skin Sensitization		Data not available		
Germ Cell Mutagenicity		Data not available		
Carcinogenicity	NTP	Not listed		
	IARC	Not listed		
	OSHA	Not listed		
Reproductive Toxicity		Data not available		
STOT -- Single Exposure		Data not available		
STOT -- Repeated Exposure		Data not available		
Aspiration Hazard		Data not available		

STOT = Specific Target Organ Systemic Toxicity

Section 12: Ecological Information

Toxicity:	No information is available.	
Persistence and degradability:	No information is available.	
Bioaccumulative potential	No information is available.	
Mobility in soil:	No information is available.	
PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical assessment not required/not conducted	
Other adverse effects:	No information is available.	

Note: No environmental hazards were identified based on a review of available data for the ingredients in this product.

Section 13: Disposal Considerations

Waste from residues/unused products: Follow the waste disposal requirements of your country, state, or local authorities.

Contaminated packaging: Contaminated packaging material should be disposed of as stated above for residues and unused product.

Rinsate: Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.



Section 14: Transport Information

<u>DOT TRANSPORT:</u>		Not Regulated
<u>ADR = International Carriage of Dangerous Goods by Road</u>		Not Regulated
<u>RAIL TRANSPORT:</u>		Not Regulated
<u>SEA TRANSPORT:</u>	IMDG	Not Regulated
<u>AIR TRANSPORT:</u>	IATA/ICAO	Not Regulated

Section 15: Regulatory Information

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and orders of TSCA.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: None

CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: None

STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Florida Toxic Substance(s):	Not listed
Massachusetts's hazardous substance(s):	Not listed
Pennsylvania hazardous substance code(s):	Not listed
New Jersey	Not listed
Illinois	Not listed
Michigan	Not listed
Minnesota	Not listed

CANADA:

This SDS contains all of the information required by the Controlled Products Regulations (CPR).

WHMIS-INFORMATION:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), SOR/88-66, Current to February 20, 2012. The classes of controlled products listed in the CPR, Section 32, Part IV, have been reviewed and based on Professional Judgment this product has been determined to not be WHMIS controlled.

EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures. None of the chemicals used in this product are on the EU's REACH SVHC (Substances of Very High Concern) chemicals list (as of December 17, 2014).

Section 16: Other Information

Initial issue date: April 28, 2015
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Revision Number: 0
Revision explanation: Initial version
Information Sources: RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

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