

FENG HSIN CHEMICAL INDUSTRIAL FACTORY

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TEL: 049-2337927 FAX:049-2337928 <https://www.growing8.com/>**Material Safety Data Sheet**

1. PRODUCT NAME: SuperLINK Condensed Solution (item#HS-9412)

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a substance in conformance to EC directives

Registration ingredients: MgO, Mn, Zn, N, P, K, Ca, Cu, Fe.

Composition / Information on Ingredients:

= Guaranty Active Ingredients (A.I.):

<u>Chemical Name</u>	<u>%w/w</u>	<u>CAS#</u>
Organic Matter	21.3%	66455-26-3
Organic Nitrogen	2.4%	7727-37-9
Total Nitrogen N	2.7%	7727-37-9
Total P ₂ O ₅	less 0.2%	7440-09-7
Total K ₂ O	less 0.2%	7723-14-0

Other Ingredients:

<u>Chemical Name</u>	<u>%w/w</u>	<u>CAS#</u>
Magnesium Oxid (MgO)	13ppm min.	14402-88-1
Calcium (Ca)	290ppm min.	7440-70-2
Ferrous (Fe)	11ppm min.	7439-89-6
Copper (Cu)	0.8ppm min.	7440-50-8
Manganese (Mn)	17ppm min.	15375-84-5
Zinc (Zn)	20ppm min.	14025-21-1

Inert Ingredients: Balance : water.....73.16482% min.

3. HAZARDS IDENTIFICATION

Not classified as hazardous conform EEC Dangerous Substance Directive and Dangerous Preparation Directive.

4. FIRST AID MEASURES

Symptoms and effects No typical symptoms and effects known.

First aid

General	In all cases of doubt, or when symptoms persist, seek medical attention.
Inhalation	Odor may be irritating to the respiratory tract and cause symptoms of bronchitis. Move to fresh air. If symptoms persist, seek medical advice.
Skin	Take off contaminated clothing immediately. Wash immediately with soap and water. Launder clothes before reuse.
Eye	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation persists.
Ingestion	Rinse mouth. Give water to drink.

Advice to physician No additional information available

5. FIRE-FIGHTING MEASURES

Extinguishing media	water spray, foam, carbon dioxide, dry chemical powder.
Unsuitable extinguishing Media	none known.
Special exposure hazards	In case of fire and/or explosion do not breathe fumes.

Hazardous decomposition/combustion product.

Protective equipment	Nitrous gases may be produced. Use self-contained respiratory equipment.
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6. ACCIDENTAL LEAKAGE MEASURES

Personal precautions	For personal protection see Section 8
Environmental precautions	Collect as much as possible in a clean container for (preferable) reuse or disposal.
Methods for cleaning up	flush remainder with water (Absorb the remainder with e. g. Vermiculite). See also Section 13.

7. HANDLING AND STORAGE

Handling	Wash exposed skin surfaces before smoking, drinking or eating.
Fire and explosion	No specific recommendations.
Prevention	Store in a cool, dry, well-ventilated place.
Storage requirements	Keep container tightly closed and dry when not in use.
Other information	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	No specific recommendations.
Exposure limits	No exposure limits have been established for this material.
Personal protection	
Respiratory	Use appropriate U.S. NIOSH/MSHA, approved equipment.
Hand	Wear suitable gloves.
Eye	Wear eye/face protection.
Skin and body	The usual precautions for handling chemicals should be observed.

9. PHYSICAL AND CHEMICAL PROPERTIES

MSDS SuperLINK Condensed Solution (item#HS-9412)

Appearance	Aqueous
Color	Brown
Odor	Smell of original raw materials
Boiling point/range	>100°C
Melting point/range	Decomposes without melting
Flash point	>300°C
Flammability	Not relevant
Auto ignition temperature	Not determined
Explosive properties	Not relevant
Explosion limits	Not relevant
Oxidizing properties	Not applicable
Vapor pressure	Not relevant
Density	Not relevant
Solubility in water	1000 g/l (20°C) 1200 g/l (80°C)
solubility in other solvents	Not determined
pH value	pH approx. 7.0
Relative vapor density (air=1)	Not relevant
Viscosity	Not relevant
Corrosive	Not relevant
Other information	Decomposition temperature: >300°C

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling conditions (see section 7)
Conditions to avoid: none known
Materials to avoid: none known
Hazardous decomposition products: Nitrous gases may be produced

11. TOXICOLOGICAL INFORMATION

No experimental toxicological data of the product as such available.
 From structurally related products the following may be expected;
 Oral LD50 rat: 2000 mg/kg (Lit.)

12. ECOLOGICAL INFORMATION

No experimental ecological data are available on the preparation as such.
 From structurally related products the following may be expected;
 Degradation Biotic Not readily biodegradable

13. DISPOSAL CONSIDERATIONS

Product: According to local regulations.
 Contaminated packaging: No specific recommendations.

14. TRANSPORT INFORMATION

DOT Shipping Class: 70

Land transport

ADR class	not restricted	ADR item number	not relevant
RID class	not restricted	RID item number	not relevant
Hazard Identification	none	Substance Identification	none
TREM-Card	not relevant	UN number	not relevant
Proper shipping name	not relevant		
National regulations			
Other information			

MSDS SuperLINK Condensed Solution (item#HS-9412)**Sea transport**

IMO/IMDG code	not restricted	Class	not restricted
Packing group	none	UN number	none
EMS	not relevant	MFAG	not relevant
Marine pollutant	no		
Proper shipping name	not relevant		
Other information			

Air transport

ICAO-TI-IATA-DGR		UN number	none
Class	not registered	Packing group	none
Proper shipping name	not relevant		

Other information keep away from: humidity / water

15. REGULATORY INFORMATION

Product label name SUPER LINK Condensed Solution

Labeling according to EC directives

EC-number not applicable not applicable

Symbol (s) none none

R (isk) phrase (s) none none

S (afety) phrase(s) none none

Other information

Wassergefahrdungsklasse 2 (Internal assessment)
(WGK)

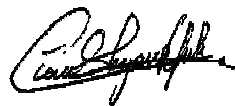
(Germany)

16. OTHER INFORMATION

This information only concerns the above mention product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

It is hereby certified that this document shows the contents of Material Safety Data Sheet (MSDS) which be edited as per the Act of Fertilizer Management Regulation, Council of Agriculture, Executive Yuan, Taiwan, R.O.C.

**FENG HSIN CHEMICAL
INDUSTRIAL FACTORY**



S.Y. LIAU DIRECTOR