

FENG HSIN CHEMICAL INDUSTRIAL FACTORY

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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

Chemical Name: MgO, Mn, Zn, N, P, K, Ca, Cu, Fe.

Composition / Information on Ingredients:

= Guaranty Active Ingredients:

Chemical Name	%w/w	CAS#
Organic Matter	21.3%	66455-26-3
Organic Nitrogen	2.4%	7727-37-9
Total Nitrogen N	2.7%	7727-37-9
Total P2O5	less 0.2%	7440-09-7
Total K2O	less 0.2%	7723-14-0

= Other Ingredients:

Chemical Name	%w/w	CAS#
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	none known.
Media	
Special exposure hazards	In case of fire and/or explosion do not breathe fumes.
Hazardous decomposition/combustion product	
	Nitrous gases may be produced
Protective equipment	Use self-contained respiratory equipment.

6.ACCIDENTAL LEAKAGE MEASURES

Personal precautions	For personal protection see Section 8
Environmental precautions (preferable)	Collect as much as possible in a clean container for 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	
Storage requirements	Store in a cool, dry, well-ventilated place.
Other information	Keep container tightly closed and dry when not in use.

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

Appearance	Aqueous
Color	Brown
Odor	Smell of raw materials origin.
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

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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	Nitrous gases may be produced
Products	

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
No.		No.	
TREM-Card	not relevant	UN number	not
relevant			
Proper shipping name	not relevant		
National regulations			
Other information			

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See 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

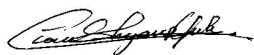
Product label name	SUPER LINK Condensed Solution
Labeling according to EC directives	
EC-number	not applicable
Symbol (s)	none
R (isk) phrase (s)	none
S (afety) phrase(s)	none
Other information	
Wassergefährdungsklasse (WGK) (Germany)	2 (Internal assessment)

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