

Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 11-Apr-2016

Revision date 21-Nov-2016

Revision Number: 3

1. Identification of the Substance/Preparation and of the Company/Undertaking

Product identifier Product Description:	STartUP METXL SEED TREATMENT
<u>Other means of identification</u> Item#: Registration number(s)	ST-001 70506-325
Recommended use of the chemical Recommended use Uses advised against	and restrictions on use Insecticide. Activities contrary to label recomendation
Details of the Supplier of the Safety Supplier Address United Phosphorus Inc. 630 Freedom Business Center Suite 402 King of Prussia, PA 19406	Data Sheet
Emergency telephone number Company Phone Number Emergency telephone number	1-800-438-6071 Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887 Medical: Rocky Mountain Poison Control Center (866) 673-6671 (24hrs)

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 4

Label elements

EMERGENCY OVERVIEW

WARNING

Hazard Statements Harmful in contact with skin HARMFUL IF INHALED		
Appearance light brown	Physical state Liquid	Odor faint

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection Do not get in eyes, on skin, or on clothing Use only outdoors or in a well-ventilated area

IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor if you feel unwell Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor if you feel unwell

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

OTHER INFORMATION

· May be harmful in contact with skin

3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Metalaxyl	57837-19-1	28.98	
Kaolinite, Hydrous Aluminum Silicate	1332-58-7	2.84	

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First aid measures

FIRST AID MEASURES

Eye contact	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Call a poison control center or doctor for treatment advice.
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
Most Important Symptoms and Effe	ects, Both Acute and Delayed
Most Important Symptoms and Effects	No information available.
Indication of Any Immediate Medic	al Attention and Special Treatment Needed
Notes to physician	Treat symptomatically.
	5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

No information available.

Explosion data Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

	6. Accidental release measures
Personal precautions, protectiv	e equipment and emergency procedures
Personal Precautions	Provide adequate ventilation. Avoid contact with skin and eyes. Remove all sources of ignition.
Environmental Precautions	
Environmental precautions	Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinenet environmental permits.
Methods and material for contain	inment and cleaning up
Methods for Clean-Up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.
	7. Handling and Storage
Precautions for safe handling	
Handling	Wear personal protective equipment. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep out of reach of children.
Conditions for safe storage, inc	luding any incompatibilities
Storage	Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. Keep in a dry, cool and well-ventilated place.
incompatible materials	Incompatible with oxidizing agents. Strong acids, Strong bases,

8. Exposure Controls/Personal Protection

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL
Kaolinite, Hydrous Aluminum Silicate	TWA: 2 mg/m ³ particulate	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction
	matter containing no	(vacated) TWA: 10 mg/m ³ total dust (vacated) TWA: 5 mg/m ³ respirable
	asbestos and <1%	fraction
	crystalline silica, respirable	
	fraction	
Engineering controls	Investigate engineering te	chniques to reduce exposures. Local mechanical exhaust
0 0	ventilation is preferred. C	onsult ACGIH ventilation manual or NFPA Standard 91 for design
	of exhaust systems.	5
Personal protective equipment	·	
Eye/Face Protection	Avoid contact with eyes. Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact.	
Skin protection	Wear protective gloves/clopus socks.	othing. Chemical resistant gloves. Chemical resistant footwear
Respiratory protection	Where airborne exposure	is likely, use NIOSH approved respiratory protection equipment

appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state Appearance color	Liquid light brown Tan	Odor	faint
Property pH Melting point/freezing point Boiling Point/Range Flash Point Evaporation Rate Flammability (solid, gas) Flammability limit in air Upper Flammability Limit Lower Flammability Limit vapor pressure Vapor Density Specific gravity Water solubility Solubility in Other Solvents Partition coefficient: n-octanol/wate Autoignition temperature Decomposition temperature Viscosity, kinematic Dynamic viscosity Explosive properties Oxidizing properties	VALUES 7.7 No information available No information available >100 C/ >212 F No information available No information available <td< th=""><th>Remarks/ • Method (1% aq)</th><th></th></td<>	Remarks/ • Method (1% aq)	
OTHER INFORMATION Softening point molecular weight VOC Content density Public density	No information available No information available No information available No information available		
Bulk density	9.13 lb/gal		

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

incompatible materials

Incompatible with oxidizing agents. Strong acids, Strong bases,

Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx).

11. Toxicological Information

Information on Likely Routes of Exposure

Product information	Metalaxyl 317 FS : Oral LD50 (rat) >2,300 mg/kg Dermal LD50 (rabbit) >2,000 mg/kg Inhalation LC50 (rat) > 5.164 (4hr) mg/L Moderate eye and skin irritation
Inhalation	May cause irritation of respiratory tract.
Eye contact	May cause slight irritation.
Skin contact	May cause irritation.
Ingestion	MAY BE HARMFUL IF SWALLOWED.

Information on Toxicological Effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Mutagenic effects Carcinogenicity	No information available. No information available. The information below indicates whether any agency has listed any ingredient as a carcinogen.
Reproductive effects	Not Available.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Aspiration hazard	No information available.

Numerical Measures of Toxicity - Product information

LD50 Oral	> 2300 mg/kg
LD50 Dermal	> 2000 mg/kg
LC50 Inhalation	> 20 mg/l

12. Ecological Information

ecotoxicity

Metalaxyl FISH Rainbow trout = 96 hr LC50 130-132 mg/L AQUATIC INVERTEBRATES Daphnia magna = LC50 28-121 mg/L

Persistence/Degradability

No information available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

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Other Adverse Effects

No information available

13. Disposal Considerations			
Waste Treatment Methods			
Waste Disposal Method	Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.		
Contaminated packaging	Refer to product label.		

14. Transport Information

<u>DOT</u>	NOT REGULATED
IATA	NOT REGULATED
IMDG/IMO	NOT REGULATED

15. Regulatory Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

signal word	CAUTION
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Keep out of Reach of Children. Harmful if swallowed or absorbed through the skin.

International Inventories	
USINV	Does not comply
DSL/NDSL	Does not comply
EINECS/	Does not comply
ELINCS	
ENCS	Does not comply

China	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply
TSCA	Does not comply

 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

 EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

 ENCS - Japan Existing and New Chemical Substances

 IECSC - China Inventory of Existing Chemical Substances

 KECL - Korean Existing and Evaluated Chemical Substances

 PICCS - Philippines Inventory of Chemicals and Chemical Substances

 AICS - Australian Inventory of Chemical Substances

Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous	
Categorization	
Acute health hazard	yes
Chronic health hazard	yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CERCLA Not applicable

<u>CERCLA</u> <u>RCRA</u> Pesticide Information

State Regulations
Not applicable

State Right-to-KnowNot applicableInternational regulationsU.S. EPA Label informationEPA Pesticide registration number70506-325

16. Other Information					
NFPA	HEALTH 2	flammability 1	Instability 0	Physical hazard -	
Preparation Date	11-Ap	11-Apr-2016			
Revision date	21-No	21-Nov-2016			
Revision Summary					
Update Section 9 Upda	ate section 3				
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