

# SAFETY DATA SHEET



AGSCITECH

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: <b>STS SOIL ACTIVATOR</b>		WHMIS Classification:	
Product Use: Plant nutrients			
Manufacturer's Name: AGSCITECH Inc.		Supplier's Name:	
Street Address: 365 North 600 West		Street Address:	
City: Logan	State: UT	City:	State:
Postal Code: 84321	Emergency Ph: 1-435-757-7585	Postal Code:	Emergency Ph:
Date MSDS Prepared: December 1, 2015	MSDS Prepared By: Salam Awada	Phone No.: 435-757-7585	

## SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients ( <i>specific</i> )	%	CAS Number	LD <sub>50</sub> Ingredient ( <i>Specify species and route</i> )	LC <sub>50</sub> Ingredient ( <i>Specify species and route</i> )
Urea	< 10%	57-13-6	8450 mg/kg Rat (oral) 28000 mg/kg Sheep	
Ammonium nitrate	< 5%	6484-52-2	2217 mg/kg Rat (oral)	
Potassium nitrate	< 10%	7757-79-1	3750 mg/kg Rat (oral)	
Boric acid	< 2%	10043-35-3	2660 mg/kg Rat (oral)	
Ferrous sulfate	< 5%	7720-78-7	1520 mg/kg Mouse (oral)	
Manganese sulfate	< 1%	7785-87-7	2150 mg/kg Rat (oral)	
Zinc sulfate monohydrate	< 1%	7746-18-6	625 mg/kg Rat (oral)	

## SECTION 3 – HAZARDS IDENTIFICATION

Physical hazards:	Not classified	
Health hazards:	Acute toxicity, oral	Category 4
	Acute toxicity, dermal	Category 4
	Acute toxicity, inhalation	Category 4
Osha defined hazards:	Not classified.	

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Label Elements	
Signal word                      Warning	
Hazard Statements: Harmful if swallowed. Severe eye irritation could occur if solution is splashed in eyes. Harmful to aquatic life. Hazardous to the aquatic environment. Avoid release to the environment..	
Skin Contact:	Irritation could occur with prolonged exposure to solution.
Skin Absorption:	Not known to be absorbed through the skin.
Eye Contact:	Irritation could occur if solution is splashed in eyes.
Inhalation:	Very low vapor activity. If heated, could release ammonia gas. Can cause respiratory tract irritation.
Ingestion:	If swallowed, do not induce vomiting, consult a physician immediately.
Precautionary Statement	<b>Prevention:</b> Avoid breathing vapors. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well ventilated area. Avoid release to the environment. Wear protective gloves and protective clothing. <b>Storage:</b> Store away from incompatible materials. Products should be stored above 50° F. <b>Disposal:</b> Dispose of contents and container in accordance with local/state/national regulations.

## SECTION 4 – FIRST AID MEASURES

Inhalation:	Remove individual to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if needed. Seek medical attention if necessary.
Skin Contact:	Wash off with soap and water. Flush affected areas with large amount of cold water. Seek medical attention if you feel unwell.
Eye Contact:	Flush immediately with large amount of water for 15 minutes or until irritation subsides. Seek medical attention if irritation persists.
Ingestion:	May be harmful if ingested. Wash out mouth with plenty of water Do not induce vomiting. Seek medical attention immediately.

## SECTION 5 – FIRE FIGHTING MEASURES

Flammable:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, under which conditions:
Means of Extinction:	Use flooding quantities of water, dry chemical powder, carbon dioxide, foam. Do not use water jet	
Flashpoint (°C) and Method	Upper Flammable Limit (% by volume)	Lower Flammable Limit (% by volume)
N/A	N/A	N/A

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Auto-ignition Temperature (°C) N/A	Explosion Data - Sensitivity to Impact N/A	Explosion Data - Sensitivity to Static Discharge N/A
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Hazardous Combustion Products: Not known. During fire, hazardous gases may be formed.

**Protection for Firefighters:** Wear protective clothing and equipment.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

### Leak and Spill Procedures:

Contain the spill. Collect liquid with absorbent material and dispose of in approved manner. Prevent entry into waterways.

Dispose of in non-crop areas away from waterways, in accordance with Federal, State and Local regulations.

## SECTION 7 – HANDLING AND STORAGE

### Handling Procedures and Equipment:

Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing void prolonged exposure. Do not taste or swallow. When handling or using, do not eat, drink, or smoke. Use outdoors in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

### Conditions for Safe Storage including any incompatibilities:

Store in a cool, dry, well-ventilated area away from direct sunlight. Avoid overheating or freezing. Keep containers tightly closed when not in use. Refer to **SECTION 10** for incompatibilities.

## SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits:  ACGIH TLV  OSHA PEL  Other (specify)

Specific Engineering Controls (such as ventilation, enclosed process):  Ventilate

Personal Protective Equipment:  Gloves  Respirator  Eye  Footwear  Clothing  Other

If checked, please specify type:

Respiratory: Wear NIOSH/MSHA approved respirator for mists while mixing or spraying. Use with adequate ventilation.

Eyes: Wear safety glasses to avoid eye contact. Do not wear contact lenses.

Skin: Wear impermeable gloves to avoid skin contact.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid	Odor and Appearance: No offensive odor. Dark brown color.	Odor Threshold (ppm): N/A
Specific Gravity: 1.28	Vapor Density (air = 1): N/A	Vapor Pressure (mmHg): N/A
Evaporation Rate:	Boiling Point (°C) > 212° F	Freezing Point (°C): N/A
pH: 5.5 +/- 0.5	Coefficient of Water/Oil Distribution:	(Solubility in Water):

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		Soluble
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## SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions:
Incompatibility with Other Substances: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Incompatible with strong oxidizing agents or high pH chemicals.
Reactivity and under what conditions?	Stable under normal conditions of use, storage and transport.
Hazardous Decomposition Products:	No known hazardous decomposition products.

## SECTION 11 – TOXICOLOGICAL INFORMATION

Effects of Acute Exposure:	Not available		
Effects of Chronic Exposure:	Not available		
Irritancy of Product:	Not available		
Skin Sensitization:	Not available	Respiratory Sensitization:	Not available
Carcinogenicity – IARC:	Not expected to be carcinogen	Carcinogenicity – ACGIH:	Not expected to be carcinogen
Reproductive Toxicity:	Not expected to cause reproductive or developmental effects.	Teratogenicity:	Not available
Embryo toxicity:	Not expected to cause embryo toxicity.	Mutagenicity:	Not available
Name of Synergistic Products/Effects:	N/A		

## SECTION 12 – ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Harmful to aquatic life. Hazardous to the aquatic environment. Avoid release to the environment.
<b>Persistence and degradability:</b>	Not available
<b>Bioaccumulative potential:</b>	Not available
<b>Mobility in soil:</b>	Not available

## SECTION 13 – DISPOSAL CONSIDERATIONS

<b>Disposal instructions:</b> Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with
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chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.

**Hazardous waste code:** Not hazardous waste. Dispose in accordance of all applicable regulations.

**Waste from residue/unused containers:** Not hazardous material

Dispose of product in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its assigned container must be disposed of in a safer manner

**Contaminated packaging:**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14 – TRANSPORT INFORMATION

<b>UN number:</b> Not available	<b>UN proper shipping name:</b> Not available
<b>Transport hazard class(es)</b> Not hazardous product	<b>Packaging group:</b> Not available
<b>DOT</b> Not regulated as dangerous goods	<b>TDG:</b> Not regulated as dangerous goods

## SECTION 15 – REGULATORY INFORMATION

(WHMIS Classifications) N/A	(OSHA) Not regulated
(SARA Title III) Not regulated	(TSCA) Not regulated
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.	

## SECTION 16 – OTHER INFORMATION

Issue date: 12-01-2015 Version: 01

Disclaimer: The information provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge, information and belief at the date of its publication. The information in this SDS has been assembled by the manufacturer based on its own studies and the work of others. The information given is designed only as a guidance for safe handling, use, storage, transportation, disposal and release. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein. The manufacturer shall not be liable to the vendee, the vendee's employees, or anyone for any direct, special, or consequential damages arising out of or in connection with the accuracy, completeness, adequacy, or of furnishing of such information. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or products or in any process unless specified in the text.

### Legend:

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N/A = not applicable  
N/D = not determined