

MATERIAL SAFETY DATA SHEET (MICRO 5 5 PLUS)

SECTION 1)

CHEMICAL NAME Boric acid, copper sulfate, iron sulfate, iron organic acid, manganese sulfate, manganese organic acid, zinc organic acid and zinc sulfate.

ACTIVITY: 5.0% Zn, 5% Mn, 1.5% Fe, 1.0% Cu, 1.0% B.

PRODUCT NAME: MICRO-55 PLUS

FORMULATED FOR: **AGSCITECH Inc.**

ADDRESS: **365 NORTH 600 WEST
LOGAN, UT 84321**

Emergency Phone Number **1-435-757-7585**

Product Use **WATER SOLUBLE FERTILIZER FOR PLANTS**

SECTION 2) HAZARDOUS INGREDIENTS

Hazardous Ingredients: (Specific Chemical Identity; OSHA PEL ACGIH TLV C

common name	C.A.S. / N.A. / UN No.	%	LD ₅₀
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SECTION 3) PHYSICAL/CHEMICAL DATA

Physical State:	Odor and Appearance:
SOLID	FINE YELLOWISH POWDER, No Odor
Odor Threshold: NA	Specific Gravity: NA
Vapor Pressure: ND	Vapor Density: ND
Evaporation Rate: ND	Boiling Point: NA
Freezing Point: NA	Density: ND

pH: (**10% SOLUTION**) **5.5 +/- 1.0**

SECTION 4)

FIRE AND EXPLOSION HAZARD

Flammability: **NON-FLAMMABLE**

Means of Extinction:

USE FLOODING QUANTITIES OF WATER. DO NOT USE WATER JET. WEAR FULL PROTECTIVE CLOTHING IF PRODUCT IS INVOLVED IN A FIRE.

Flashpoint: **NA** UEL: **NA** LEL: **NA**

Auto-ignition Temperature: **ND** TDG Flammability Class: **NON-FLAMMABLE**

Hazardous Combustion Products:

AMMONIA, OXIDES OF NITROGEN, CO₂

SECTION 5)

REACTIVITY DATA

Chemical Stability: **STABLE WHEN DRY**

Incompatibility: **STRONG ACIDS, STRONG ALKALIES, OXIDIZERS, ORGANICS**

Conditions of Reactivity: **MOIST, WET CONDITIONS OR WHEN HEATED**

Hazardous Decomposition Products: **Sulfur Oxide, CO₂**

SECTION 6) HEALTH HAZARD DATA

TOXICOLOGICAL PROPERTIES

Route of Entry: Effects of Acute or Chronic Exposure:

SKIN CONTACT - IRRITATION COULD OCCUR WITH PROLONGED EXPOSURE TO DRY FERTILIZER OR FERTILIZER SOLUTION.

SKIN ABSORPTION - NOT KNOWN TO BE ABSORBED THROUGH THE SKIN.

EYE CONTACT - IRRITATION COULD OCCUR IF FERTILIZER SOLUTION IS SPLASHED IN EYES OR DRY PRODUCT CONTACTED.

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.

Exposure Limits:

ND

Synergistic Products:

ND

Sensitization / Irritancy:

ND

Carcinogenicity / Teratogenicity / Mutagenicity / Reproductive Effects:

NONE KNOWN

SECTION 7)

PRECAUTION FOR SAFE HANDLING AND USE

Personal Protective Equipment:

**RESPIRATORY -- WEAR DUST MASK WHILE HANDLING AND MIXING.
EYES - WEAR SAFETY GLASSES TO AVOID EYE CONTACT. DO NOT
WEAR CONTACT LENSES.**

GLOVES - WEAR IMPERMEABLE GLOVES TO AVOID SKIN CONTACT.

Engineering Controls:

VENTILATE TO CONTROL DUST.

Leak or Spill Procedure:

**CONTAIN THE SPILL. SWEEP UP SPILLED MATERIAL AND USE OR
DISPOSE OF IN APPROVED MANNER. PREVENT ENTRY INTO
WATERWAYS.**

Disposal:

**DISPOSE OF IN NON CROP AREAS AWAY FROM WATERWAYS, IN
ACCORDANCE WITH FEDERAL AND LOCAL REGULATIONS.**

Handling Procedures and Equipment:

AVOID DIRECT AND PROLONGED CONTACT WITH SKIN.

Storage Requirements:

KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL, DRY PLACE.

Shipping Information:

NOT REGULATED.

SECTION 8:

FIRST AID MEASURES:

**SKIN - WASH WITH SOAP AND WATER. FLUSH AFFECTED AREAS WITH LARGE
AMOUNT OF COLD WATER.**

**EYES - FLUSH IMMEDIATELY WITH LARGE AMOUNT OF WATER FOR 15 MINUTES OR
UNTIL IRRITATION SUBSIDES. SEEK ATTENTION IF IRRITATION PERSISTS.**

**INHALATION - IF AMMONIA GAS IS INHALED FROM HEATED FERTILIZER AND
BREATHING HAS STOPPED BEGIN ARTIFICIAL RESPIRATION. IF BREATHING IS
LABOURED GIVE OXYGEN. SEEK MEDICAL ATTENTION.**

INGESTION - FOR LARGE AMOUNTS SEEK MEDICAL ATTENTION IMMEDIATELY.

SECTION 9

ADDITIONAL INFORMATION:

PREPARATION INFORMATION:

Department:

TECHNICAL

Phone Number:

435-750-0959 x314

Date:

Feb. 2013