MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS: EMERGENCY TELEPHONE NUMBERS:

Albaugh, Inc. (800) 424-9300 (CHEMTREC, transportation and spills)

Ankeny, IA 50021

PRODUCT NAME : AGRISTAR SONOMA 40WSP

CHEMICAL NAME : Myclobutanil

a-butyl-a-(4-chlorophenyl)-1H-1,2,4, triazole-1-propanenitrile

CHEMICAL FAMILY : Triazole fungicide

PRODUCT CODE : EPA Reg. No 42750-141

SECTION 2 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER	OSHA PEL	ACIGH TLV
Myclobutanil	40.0 %	88671-89-0	Not Established	Not Established
Kaolin clay (contains trace	< 60.0%	1332-58-7	5 mg/M3	2 mg/M3
amounts of crystalline silica)		14808-60-7	0.1 mg/M3	0.1 mg/M3

SECTION 3 - HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

HEALTH HAZARDS: Moderate to Severe eye irritant. Can cause irreversible eye damage if not treated promptly.

PHYSICAL HAZARDS: May release toxic fumes if burned.

ENVIRONMENTAL HAZARDS: Myclobutanil is toxic to aquatic organisms.

SECTION 4 - FIRST AID MEASURES

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: 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.

NOTE TO PHYSICIAN: Careful evacuation of stomach is advised for oral ingestation.

SECTION 5 - FIRE FIGHTING MEASURES

FLASHPOINT (method): Not applicable. **FLAMMABLE LIMITS (LFL-UFL):** Unknown

FIRE AND EXPLOSION HAZARD: Dusts at sufficient concentrations can form an explosive mixture with air. Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

EXTINGUISHING MEDIA: Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

FIRE FIGHTING INSTRUCTIONS: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Dike and collect water used to fight fire to prevent environmental damage due to run off.

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full facepiece.

HAZARDOUS COMBUSTION PRODUCTS: Hydrogen chloride, Oxides of nitrogen, carbon monoxide.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Vacuum or sweep up material and place in a container for reuse or disposal. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container.

SECTION 7 - HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN!

HANDLING: Use only in a well-ventilated area. Wear appropriate safety equipment when handling. Do not allow dust to accumulate that can become airborne and create potentially explosive conditions. Use properly grounded equipment to prevent static electricity discharge.

STORAGE: Store in original container. Keep away from food, feed and drinking water. Store in a well ventilated, dry place away from heat and other sources of ignition. Minimum and maximum storage temperatures are 34 F to 120 F.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS (8 hour TWA, ppm): Refer to Section 3.

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION - Safety glasses or goggles.

CLOTHING - Long-sleeved shirt and long pants, Shoes plus socks.

GLOVES – Chemical-resistant gloves, such as barrier laminate, or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride or viton.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION: Off-white powder

ODOR: Mild to moderate aromatic

MOLECULAR WEIGHT (technical): 307.8

MOLECULAR FORMULA (technical): C16H22CIN3O

SPECIFIC GRAVITY: 1.53 g/ml

pH: 7.4

VAPOR PRESSURE (technical): 1.3 x 10-3 Pa @ 25 C

WATER SOLUBILITY: Dispersable

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal storage conditions. However may decompose if heated.

CONDITIONS TO AVOID: Avoid temperatures below 34 F and above 120 F **INCOMPATIBILITY WITH OTHER MATERIALS:** Acidic and oxidizing materials

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, Oxides of nitrogen

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Sensitization (guinea pig) - Non-sensitizer

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

CARCINOGEN STATUS:

OSHA - No NTP - No IARC - No

MUTAGENIC DATA: Preponderance of evidence indicates that myclobutanil is non-mutagenic

REPRODUCTIVE DATA: Myclobutanil exhibited reproductive toxicity in long term rat and rabbit studies at moderate doses.

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: Do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift or runoff from areas treated.

FISH TOXICITY: (technical)

96 hour LC_{50} , Rainbow trout - 3.9 mg/L 96 hour LC_{50} , Bluegill - 2.2 mg/L

AVIAN TOXICITY: (technical)

Oral LD_{50} , Bobwhite quail – 510 mg/Kg Dietary LC_{50} , Mallard duck - >5,000 ppm

BEE TOXICITY: (technical) Contact LD₅₀ - >100 ug/bee

SECTION 13 - DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty container into application equipment. Dispose of in a sanitary landfill

or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

SECTION 14 - TRANSPORT INFORMATION

DOT SHIPPING DESCRIPTION: Not regulated by DOT

DOT HAZARD CLASS: N/A
UN NUMBER: N/A
DOT PACKING GROUP: N/A
DOT PRIMARY/SECONDARY LABEL: N/A
DOT PRIMARY/SECONDARY PLACARD: N/A
DOT EMERGENCY RESPONSE GUIDE #: N/A

SECTION 15 - REGULATORY INFORMATION

CERCLA REPORTABLE QUANTITY: Not listed

SARA TITLE III STATUS:

311/312 Hazard Categories – Immediate, Delayed 313 Toxic Chemicals – Myclobutanil (88671-89-0)

CALIFORNIA PROP 65: Myclobutanil

SECTION 16 - OTHER INFORMATION

HMIS HAZARD RATINGS	HEALTH		3			
	FLAMMABILITY			0		
	PHYSICAL HAZARD			1		
	4=Severe	3=Serious	2=Moderate	1=Slight	0=Minimal	

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REVISED DATE: January, 2008

REFERENCE: Revised Section 16 HMIS Table