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AMVAC MSDS No.: 353\_3

# MATERIAL SAFETY DATA SHEET

#### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 1.

PRODUCT NAME: AZA 1.2% CF; ECOZIN PLUS 1.2% ME; ORNAZIN PLUS

1.2% ME; AMAZIN PLUS 1.2% ME

**GENERAL USE:** Bio-pesticide

**PRODUCT DESCRIPTION:** Dark brown liquid with a sweet odor

**EPA Registration Number: 5481-559** 

REGISTRATION NUMBER(s) (Under the Canadian Pest control Products Act): Not currently registered

MSDS No.: 353 3

Current MSDS Revision Date: 30 June, 2008

**MANUFACTURER:** AMVAC CHEMICAL CORPORATION

4100 E. Washington Blvd. Los Angeles, CA 90023-4406

Ph: 323-264-3910

FAX: 323-268-1028

**EMERGENCY TELEPHONE NUMBERS:** 

**MANUFACTURER: 323-264-3910 TRANSPORTATION (24 HOURS) CHEMTREC:** 800-424-9300

**OTHER:** 

**AMVAC:** 323-264-3910

#### 2. **COMPOSITION/INFORMATION ON INGREDIENTS**

WT %	CAS No.				
1.2%	11141-17-6				
98.8%					
OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)					
OSHA	ACGIH				
	98.8%				

Exposure Limits 8 hrs. TWA (ppm)

## 3. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW:**

CAUTION! May cause eye irritation. May cause skin irritation. May cause irritation of the respiratory system. May cause central nervous system effects. May cause adverse reproductive and fetal effects, as well as kidney and liver damage.

Toxic to fish.

#### POTENTIAL HEALTH EFFECTS

**ROUTE(S) OF ENTRY:** Potential routes of entry include skin and eye contact, ingestion, and inhalation of mists.

SIGNS OF ACUTE OVEREXPOSURE: May cause skin, eye and respiratory system irritation.

**SIGNS OF CHRONIC OVEREXPOSURE:** May cause central nervous system effects. May also cause liver and kidney damage, reproductive and fetal effects, and cardiac disturbances. May cause dermatitis.

**CARCINOGENICITY:** None of the components of this product are known to be carcinogenic.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Preexisting dermatitis may be aggravated..

### 4. FIRST AID MEASURES

**EYES:** Immediately flush the eyes with copious amounts of clear, cool running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyes and lids with water. Contact a physician immediately. If there will be a delay in getting medical attention, rinse the eyes for at least another 15 minutes.

**INHALATION:** Remove victim to fresh air. If breathing has ceased, clear the victim's airway and start mouth-to-mouth artificial respiration. If breathing is difficult, give oxygen. Contact a physician immediately. Be sure the contact areas are clean to prevent contamination of the rescuer.

**INGESTION:** Immediately dilute the swallowed product by giving large quantities of water, but do not induce vomiting. If vomiting occurs, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Never give anything by mouth to an unconscious person. Contact a physician immediately.

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## 4. FIRST AID MEASURES, cont'd

**SKIN:** Immediately flush all affected areas with large amounts of clear water for at least 15 minutes. Remove contaminated clothing. Do not attempt to neutralize with chemical agents. Wash clothing before reuse. If skin irritation develops, contact a physician immediately.

**NOTE TO PHYSICIANS:** Treat symptomatically. Contact your local POISON CONTROL Center for more information.

## 5. FIRE FIGHTING MEASURES

#### FLAMMABLE PROPERTIES

Flash Point (TCC): > 200°F

Autoignition Temperature: Not determined

Flammable Limits:

Lower flammable limit: Not available Upper flammable limit: Not available

#### **EXPLOSIVITY:**

Mechanical Impact: Will not occur Static Discharge: Will not occur

**HAZARDOUS COMBUSTION PRODUCTS:** Incomplete combustion of this product may result in fumes and vapors of unknown composition. Stay upwind and out of smoke in case of fire.

**EXTINGUISHING MEDIA:** Foam, carbon dioxide, dry chemical, water fog, water spray.

**FIRE FIGHTING INSTRUCTIONS:** Do not breathe fumes. Wear complete fire fighting gear, including protective gloves, eye protection, and self-contained breathing apparatus. Wash clothing before reuse.

## 6. ACCIDENTAL RELEASE MEASURES

- **GENERAL:** Evacuate personnel and thoroughly ventilate the area. Use adequate ventilation and appropriate personal protective equipment (PPE, Section 8). Keep bystanders upwind and away from the spill. Area of spill may be very slippery, especially if wet.
- **SMALL SPILL:** Cover with absorbent (clay, sawdust, straw, kitty litter, etc.), to absorb the liquid. Sweep into an open drum. Clean the area with common powdered household detergent and a stiff brush and just enough water to make a slurry. Absorb and sweep into the same open drum. Rinse with water, absorb, and add to the waste drum. Close the drum and dispose of properly.
- **LARGE SPILL:** Dike the spill to prevent contamination of local water sources. Siphon the majority of the liquid into drums for use or disposal, depending on the circumstances. Clean the area as described for a small spill.

## 7. HANDLING AND STORAGE

**HANDLING:** Wear recommended personal protective equipment (PPE) (See Section 8). Avoid breathing fumes or spray. Avoid contact with skin, eyes, or clothing. Wash PPE after each day of use and before reuse. Wash hands and face thoroughly after use.

**STORAGE:** Store product in original container in a secure, dry and temperate area. Do not freeze. Do not store above 100°F. Keep container closed when not in use. Do not store near food, feed, fertilizers, or seeds. Do not use or store around the home. Avoid contact with water. Keep away from children and pets.

## 8. <u>EXPOSURE CONTROLS/PERSONAL PROTECTION</u>

**ENGINEERING CONTROLS:** Provide fresh air or general ventilation during formulation, mixing, application and after application.

**RESPIRATORY PROTECTION:** There is no specific requirement for respiratory protection with this product. However, if misting or high vapor concentrations are present and ventilation is poor, a properly <u>FIT-TESTED</u> NIOSH/MSHA approved respirator fitted with organic vapor cartridges may be required. Specific use regulations are listed on the label.

**SKIN PROTECTION:** Long-sleeved shirt and long pants, chemical resistant gloves, and shoes plus socks are required when working with this product.

**EYE PROTECTION:** Safety glasses are required whenever a person is working with chemical solutions. If splashing or misting may occur, safety goggles or a full face shield should be used.

**OTHER PROTECTION**: An eyewash station and a safety shower should be located in the work area.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

APPEARANCE: Clear brown liquid
ODOR: Slightly pungent odor
ODOR THRESHOLD: Not determined

**BOILING POINT**: Mixture - boiling point not determined

FREEZING/MELTING POINT: Not determined

SPECIFIC GRAVITY: 1.05

**DENSITY:** 8.76 lb/gal

EVAPORATION RATE: < 1 (Butyl acetate)
VAPOR PRESSURE (mm Hg): Not available
VAPOR DENSITY: > 1 (air)
PERCENT VOLATILE BY VOL: Not determined

## 9. PHYSICAL AND CHEMICAL PROPERTIES, cont'd

**SOLUBILITY (Water):** Emulsifies

**SOLUBILITY (Other):** Soluble in alcohols and low molecular weight ketones

**PARTITION COEFFICIENT (O/W):** 4.1 as 1% emulsion Not available

## 10. STABILITY AND REACTIVITY

**CHEMICAL STABILITY (Conditions to avoid):** This product is stable under normal storage and use conditions. Avoid high temperatures and direct sunlight during storage.

**INCOMPATIBILITY:** Strong oxidizing agents, bases.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known from normal decomposition. Partial combustion may result in carbon monoxide and carbon dioxide, as well as unknown compounds.

**HAZARDOUS POLYMERIZATION:** This product will not polymerize.

## 11. TOXICOLOGICAL INFORMATION

**GENERAL:** Acute toxicity data are available for this product. Other data presented are based on information on the raw materials.

Skin irritation: Slightly irritating (Tox Cat IV)

**SENSITIZATION:** Skin sensitization: Sensitizer

(LLNA)

**TERATOGENICITY**: May cause adverse reproductive and fetal effects.

**MUTAGENICITY:** No evidence is available to indicate this product will be mutagenic. **CARCINOGENICITY:** None of the components of this product have been found to be

carcinogenic.

**REPRODUCTIVE TOXICITY**: May cause adverse reproductive and fetal effects. **TOXICOLOGICAL SYNERGISTIC PRODUCTS**: No information is available.

## 12. <u>ECOLOGICAL INFORMATION</u>

**GENERAL:** This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, 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.

### 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL**: Wastes resulting from the use of this product may be disposed by use according to the label instructions or at an approved waste disposal facility. Contact Federal, State, and local agencies for further information on disposal.

**CONTAINER DISPOSAL**: Triple rinse (or equivalent). Then offer container for recycling or reconditioning, or puncture and dispose in a sanitary landfill or by other approved methods. Contact Federal, State, and local agencies for further information on disposal.

## 14. TRANSPORTATION INFORMATION

DOT CLASS:

UN NUMBER:

IMDG CLASS (sea):

Not regulated

Not regulated

Not regulated

Not regulated

Not regulated

MARINE POLLUTANT: No

PACKING GROUP:

HAZARD LABEL(S):

Not regulated

Not regulated

Not regulated

Not regulated

**REPORTABLE QUANTITY:** No

### TYPICAL PACKAGING

**GENERAL DESCRIPTION:** 1 gallon bottles (4 per case)

## 15. **REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS:** This product is currently registered under EPA/FIFRA Regulations. It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

**CANADIAN REGULATIONS**: This product is not registered in Canada.

## 15. REGULATORY INFORMATION, cont'd

#### SARA TITLE III DATA

### Section 311 & 312 Hazard Categories:

Immediate Health Hazard:YesDelayed Health Hazard:YesFire Hazard:NoReactive Hazard:NoSudden Pressure Release Hazard:No

Section 302 Extremely Hazardous Substances: None

Section 313 Toxic Chemicals: None

### CERCLA/EPCRA REPORTABLE QUANTITIES (RQ): None

#### **STATE REGULATIONS:**

CALIFORNIA (Proposition 65): None

OTHERS: None

## 16. OTHER INFORMATION

#### **MSDS STATUS:**

Date This Revision: 30 June, 2008

Date Previous Revision: 24 January, 2007

Person Responsible for Preparation: Gary A. Braden

**REASONS FOR REVISION:** Registration of this product is complete. Changes have been made in sections 1, 3, 9, 11, 13, 14 and 15 to reflect the final information associated with the registered formulation.

believes that the information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information or the product to which the information relates.

# 16. OTHER INFORMATION, cont'd

# **ABBREVIATIONS:**

ACGIH	-	American Conference of Governmental Industrial Hygienists
ADR	-	European Agreement Concerning the International Carriage of
		<u>D</u> angerous Goods by <u>R</u> oad
CERCLA	-	Comprehensive Environmental Response, Compensation, and
		Liability Act
DOT	-	Department of Transportation
EPA	-	Environmental Protection Agency
EPCRA	-	Emergency Planning and Community Right-to-Know Act
FIFRA	-	Federal Insecticide, Fungicide, and Rodenticide Act
IARC	-	International Agency for Research on Cancer
IATA	-	International Air Transport Association
IMDG	-	International Maritime Dangerous Goods
LLNA	-	Local Lymph Node Assay (alternative skin test that does not use
		live animal testing)
NTP	-	National Toxicology Program
SARA	-	Superfund Amendments and Reauthorization Act
TSCA	-	Toxic Substances Control Act

This is the last page of this MSDS. There should be 8 pages.