

## MATERIAL SAFETY DATA SHEET-AFB SET (6300)

### **Section I: IDENTIFICATION**

*Product Name:* Acid Fast, Carbol Fuchsin

*Date Prepared:* 4/16/03

*Item Number:* 6300

*Emergency Phone:* 800-424-9300

### **Section II: HAZARDOUS INGREDIENTS**

<i>Hazardous Component(s):</i>	<i>CAS#</i>	<i>OHSA PEL, ACGIH TLV/STEL</i>	<b>NFPA</b>
Phenol < 7%	108-95-2	5 5/250 ppm	Health 1
Methanol < 5%	67-56-1	200 200/250 ppm	Flammability 1
Ethanol < 20%	64-17-5 1000	1000/NR ppm	Reactivity 0
Basic Fuchsin < 1%	632-99-5	NR	

### **Section III: PHYSICAL DATA**

<i>Boiling Point:</i>	~210°F	<i>Specific Gravity (H<sub>2</sub>O = 1):</i>	~1
<i>Vapor Pressure mm Hg/20°C:</i>	79	<i>Percent Volatile by Vol:</i>	10%
<i>Vapor Density (Air 1:1):</i>	>1	<i>Evaporation Rate (ether = 1):</i>	>1
<i>Solubility in H<sub>2</sub>O:</i>	Complete	<i>Appearance &amp; Odor:</i>	Reddish liquid, phenolic odor

### **Section IV: FIRE/EXPLOSION HAZARD**

*Flash Point:* 62°F      *Flammable Limits:* LEL, NA      UEL, NA  
*Extinguishing Media:* Water spray, dry chemical, CO<sub>2</sub> and foam for alcohol  
*Special Fire Fighting Procedures:* Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.  
*Unusual Fire & Explosion Hazards:* Eliminate potential sources of ignition.

### **Section V: REACTIVITY**

*Stability:* Stable      *Material to Avoid:* Strong oxidizers, chromic anhydride, perchloric acids etc.  
*Hazardous Decomposition or Byproducts:* Oxides of carbon  
*Hazardous Polymerization:* Does not occur      *Conditions to Avoid:* Excessive heat

### **Section VI: HEALTH HAZARDS**

*Routes of Entry:* Inhalation, Skin and Ingestion  
*Acute:* Vapors may cause eyes, skin and respiratory irritation, drowsiness, nausea, headache and vomiting.  
*Chronic:* May cause liver, heart and kidney damage. May cause gastrointestinal disturbances and convulsions.  
*Carcinogenicity:* Not classified as a human carcinogen.  
*Signs/Symptoms of Exposure:* Vision blurring, drowsiness and headache.

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### **Section VI: HEALTH HAZARDS**

*Emergency First Aid:*

**Skin:** Remove contaminated clothing. Wash affected area with soap and water.

**Eyes:** Thoroughly flush eyes with water. Contact a physician if irritation persists.

**Ingestion:** Rinse mouth thoroughly with water, provided person is conscious and contact a physician.

**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

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### **Section VII: SAFE HANDLING**

*Chemical Release or Spill:* Eliminate source of ignition in the vicinity of the spill or released vapor. Isolate the spill area with sand, or other absorbent material. Place all contaminated material in closed container for disposal.

*Waste Disposal Method:* All liquid and or contaminated material should be disposed of in DOT approved waste containers. Incineration for liquids is the suggest method of disposal. Comply with all Federal, State and Local regulations for disposal.

*Precautions for Handling and Storing:* Use precautions for combustible liquids. Avoid excessive heat and sources of ignition. Use in ventilated area.

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### **Section VIII: CONTROL MEASURES**

*Respiratory Protection:* Not normally required. If used in a poorly ventilated area use under an approved fume hood or NIOSH approved respirator.

*Ventilation:* Mechanical exhaust is sufficient.

*Protective Gloves:* Chemical resistant      *Eye Protection:* Safety glasses

*Other Protective Clothing or Equipment:* Normal laboratory apparel suggested by Good Laboratory Practices

*Work/Hygienic Practices:* Wash thoroughly with soap and water after handling.

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The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Astral Diagnostics shall not be held liable for any damage resulting from handling or contact with this product.

## MATERIAL SAFETY DATA SHEET

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### Section I: IDENTIFICATION

*Product Name:* **Acid Fast Decolorizer**

*Date Prepared:* 04/16/03

*Item Number(s):* 6300, 6320, 6509, 6520, 6881,

*Emergency Phone:* 800-424-9300

### Section II: COMPOSITION

<i>Hazardous Component(s):</i>	<i>CAS Number</i>	<i>OHSA PEL, ACGIH TLV/STEL(PPM)</i>		<i>NFPA</i>	
Methanol < 4%	67-56-1	200	200/250	Health	1
Ethanol ~67%	64-17-5	1000	1000/NA	Flammability	3
Sulfuric ~ 1%	7664-93-9	1	3/NA	Reactivity	0

### Section III: PHYSICAL DATA

<i>Boiling Point:</i>	83°F	<i>Specific Gravity (H<sub>2</sub>O = 1):</i>	~0.9
<i>Vapor Pressure mm Hg/20°C:</i>	40	<i>Percent Volatile by Vol:</i>	91%
<i>Vapor Density (Air 1:1):</i>	1.6	<i>Evaporation Rate (ether = 1):</i>	>1
<i>Solubility in H<sub>2</sub>O:</i>	Complete	<i>Appearance &amp; Odor:</i>	Colorless liquid/alcohol odor

### Section IV: FIRE/EXPLOSION HAZARD

*Flash Point:* 55°F TCC      *Flammable Limits:* LEL 3.3      UEL 1.9

*Extinguishing Media:* Water spray, dry chemical, CO<sub>2</sub> and foam for alcohol

*Special Fire Fighting Procedures:* Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.

*Unusual Fire & Explosion Hazards:* Eliminate sources of ignition. Burns with invisible flame.

### Section V: REACTIVITY

*Stability:* Stable      *Material to Avoid:* Strong oxidizers, chromic anhydride, perchloric acids etc.

*Hazardous Decomposition or Byproducts:* Oxides of carbon and nitrogen

*Hazardous Polymerization:* Does not occur      *Conditions to Avoid:* Excessive heat, sparks or flames

### Section VI: HEALTH HAZARDS

*Routes of Entry:* Inhalation, Skin and Ingestion      *Target Organs:* Kidneys, nervous system, liver and eyes

*Acute:* Vapors may cause eyes, skin and respiratory irritation, drowsiness, nausea, headache and vomiting.

*Chronic:* May cause liver, heart and kidney damage. May cause gastrointestinal disturbances and convulsions.

*Carcinogenicity:* Not classified as a human carcinogen.

*Signs/Symptoms of Exposure:* Slightly hazardous to skin in the concentration provided. Protect eyes and respiratory system from mist. Vision blurring, burning sensation, drowsiness and headache.

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### **Section VI: HEALTH HAZARDS**

*Emergency First Aid:*

**Skin:** Remove contaminated clothing. Wash affected area with soap and water.

**Eyes:** Thoroughly flush eyes with water. Contact a physician if irritation persist.

**Ingestion:** Rinse mouth thoroughly with water, provided person is conscious and contact a physician.

**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

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### **Section VII: SAFE HANDLING**

*Chemical Release or Spill:* Eliminate source of ignition in the vicinity of the spill or released vapor. Isolate the spill area with sand, or other absorbent material. Place all contaminated material in closed container for disposal.

*Waste Disposal Method:* All liquid and or contaminated material should be disposed of in DOT approved waste containers. Incineration for liquids is the suggested method of disposal. Comply with all Federal, State and Local regulations for disposal.

*Precautions for Handling and Storing:* Use precautions for flammable liquids. Avoid excessive heat and sources of ignition. For large quantities, store in flammable safety cabinet. Use in well-ventilated area.

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### **Section VIII: CONTROL MEASURES**

*Respiratory Protection:* Not normally required. If used in a poorly ventilated area use under an approved fume hood or NIOSH approved respirator.

*Ventilation:* Special flammable exhaust hood if vapor concentration is high. In well-ventilated areas, mechanical exhaust is sufficient.

*Protective Gloves:* Chemical resistant      *Eye Protection:* Safety glasses

*Other Protective Clothing or Equipment:* Normal laboratory apparel suggested by Good Laboratory Practices

*Work/Hygienic Practices:* Wash thoroughly with soap and water after handling.

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## MATERIAL SAFETY DATA SHEET

### Section I: IDENTIFICATION

*Product Name:* **Acid Fast Brilliant Green**

*Date Prepared:* 04/16/03

*Item Number(s):* 6300, 6330, 6089

*Emergency Phone:* 800-424-9300

### Section II: HAZARDOUS INGREDIENTS

<i>Non-Hazardous Component(s):</i>	<i>CAS Number</i>	<i>OHSA PEL, ACGIH TLV/STEL(PPM)</i>	<i>NFPA</i>
Brilliant Green	1% 663-03-8	NA	<b>Health</b> 1 <b>Flammability</b> 0 <b>Reactivity</b> 0
<i>Hazardous Component</i>			
Sodium Azide	Trace 26628-22-8	0.29TWA	

### Section III: PHYSICAL DATA

<i>Boiling Point:</i>	100°F	<i>Specific Gravity (H<sub>2</sub>O = 1):</i>	~1
<i>Vapor Pressure mm Hg/20°C:</i>	NE	<i>Percent Volatile by Vol:</i>	NA
<i>Vapor Density (Air 1:1):</i>	NE	<i>Evaporation Rate (ether = 1):</i>	>1
<i>Solubility in H<sub>2</sub>O:</i>	Complete	<i>Appearance &amp; Odor:</i>	Green liquid/odorless

### Section IV: FIRE/EXPLOSION HAZARD

*Flash Point:* Non-Flammable      *Flammable Limits:* LEL: NA      UEL: NA

*Extinguishing Media:* Water spray, dry chemical, CO<sub>2</sub> and foam

*Special Fire Fighting Procedures:* Wear protective clothing with NIOSH approved breathing apparatus. Products of combustion may be harmful in a fire situation. Do not use direct water stream.

*Unusual Fire & Explosion Hazards:* May give-off toxic fumes under fire conditions.

### Section V: REACTIVITY

*Stability:* Stable      *Material to Avoid:* Some metallic oxides/metals (not in the concentration present)

*Hazardous Decomposition or Byproducts:* Oxides of carbon, nitrogen

*Hazardous Polymerization:* Does not occur      *Conditions to Avoid:* Normal Laboratory Care

### Section VI: HEALTH HAZARDS

*Routes of Entry:* Inhalation, Skin and Ingestion

*Acute/Chronic:* Product is not expected to cause health hazards when utilizing good laboratory practices and the concentration present in the product. Eye and skin irritant. Poisonous if swallowed.

*Carcinogenicity:* Not classified as a human carcinogen.

*Signs/Symptoms of Exposure:* Vision blurring, drowsiness and headache.

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### Section VI: HEALTH HAZARDS

*Emergency First Aid:*

**Skin:** Remove contaminated clothing and change. Wash affected skin area with soap and water.

**Eyes:** Thoroughly flush eyes with water. Contact a physician if irritation persist.

**Ingestion:** Rinse mouth thoroughly with water, provided person is conscious and contact a physician.

**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration and contact physician.

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### Section VII: SAFE HANDLING

*Chemical Release or Spill:* Isolate the spill area with sand, or other absorbent material. Place all contaminated material in closed container for disposal.

*Waste Disposal Method:* All liquid and or contaminated material should be disposed of in DOT approved waste containers. Comply with all Federal, State and Local regulations for disposal.

*Precautions for Handling and Storing:* Normal Laboratory Care

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### Section VIII: CONTROL MEASURES

*Respiratory Protection:* Not normally required.

*Ventilation:* Mechanical exhaust is sufficient

*Protective Gloves:* Chemical resistant      *Eye Protection:* Safety glasses

*Other Protective Clothing or Equipment:* Normal laboratory apparel suggested by Good Laboratory Practices

*Work/Hygienic Practices:* Wash thoroughly with soap and water after handling.

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