

# MATERIAL SAFETY DATA SHEET

S-400, 500, 600, 4500, 5000 PART A

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MANUFACTURER:** SUMMITVILLE LABORATORIES, INC.  
PO BOX 90  
81 ARBOR ROAD  
MINERVA, OH 44657

**INFORMATION PHONE:** 330-868-6463  
**EMERGENCY PHONE:** 330-223-1511  
**PRODUCT NAME:** S-400, 500, 600, 4500, 5000 PART A  
**PRODUCT NUMBER:** 52-00-9045A  
**UPC NUMBER:**

**PREPARED BY:** Safety Manager

**DATE PREPARED:** 3/29/00

**LAST REVISION:** 4/6/99  
**SYNONYMS:** DIGLYCIDYL ETHER OF BISPHENOL A

**PROPER SHIPPING NAME:**  
Not Regulated

**UN NUMBER:**  
**UN NUMBER:** Not Reg  
**HAZARD CLASS:** Not Reg  
**PACKING:** Not Reg

**HMIS INFORMATION:**  
**HEALTH:** 2

**FLAMMABILITY:** 1

**REACTIVITY:** 0

**PROTECTIVE:** C

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	%	OSHA PEL	ACGIH TLV
bisphenol A Diglycidyl Ether Resin	25068386			
STYRENE POLYMER	9003536		N/A	N/A
ALIPHATIC EPOXIDE	68609961			
SILICA, AMORPHOUS, FUMED	7631869		N/A	TLV = 2mg/M3 FOR RESPIRABLE FRACTION OF DUST

## 3. HAZARDOUS IDENTIFICATION

**EMERGENCY OVERVIEW:** This material is not flammable or reactive; but should be stored in a dry area to preserve material.

### POTENTIAL HEALTH EFFECTS

**EYE CONTACT:** Can cause severe eye irritation

**INHALATION:** Inhalation by sensitized individual(s) may cause asthmatic symptoms to occur.

**INGESTION:** May cause severe and permanent damage to mouth, throat, stomach, and digestive tract.

**SKIN CONTACT:** Prolonged exposure may cause skin irritation.

### SIGNS AND SYMPTOMS OF EXPOSURE:

Shortness of breathing, confused behavior, redness of skin, swelling of tissues, watery eyes, nausea.

## 4. FIRST AID MEASURES

**EYE CONTACT:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

**INGESTION:** If swallowed, drink large amounts of water and induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

**SKIN CONTACT:** Wash affected area with soap and water. If irritation persists, get medical attention.

**AGGRAVATED MEDICAL CONDITIONS:**

Frequent and prolonged contact with eyes and skin can cause irritation. Inhalation by sensitized persons may cause asthmatic, or other reactions. Sensitized persons may experience eczema reactions with exposure by skin contact.

**SUPPLEMENTAL HEALTH INFORMATION:**

This material may cause sensitization from repeated handling without the use of proper protective equipment. Sensitized individuals will have varied allergic reactions to this material or vapors from this material as a life-long, temporary allergic reaction once sensitized.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES**

**FLASH POINT:** 300 F

**FLASH POINT METHOD USED:** Tag Closed Cup

**AUTO IGNITION:**

**LEL:**

**UEL:**

**EXTINGUISHING MEDIA:**

Dry chemical, foam, co2.

**SPECIAL FIRE FIGHTING PROCEDURES:**

The use of a positive pressure, SCBA is recommended for firefighters.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

None known.

**COMBUSTION PRODUCTS:**

none known

**6. ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:**

Small spills: Mop up, wipe up or soak up immediately. Large spills: Contain liquid; transfer to closed containers. Keep out of water supply.

**7. HANDLING AND STORAGE**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Keep container closed when not in use.

**OTHER PRECAUTIONS:**

N/A

**8. EXPOSURE CONTROL/PERSONAL PROTECTION**

**RESPIRATORY PROTECTION:**

Proper ventilation required. Wear an appropriate cartridge respirator when strong odor and poor ventilation are present.

**VENTILATION:**

Provide adequate ventilation.

**PROTECTIVE GLOVES:**

Impervious gloves and splash aprons recommended.

**EYE PROTECTION:**

Safety glasses with side shields (or goggles) as appropriate.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**

Protective splash apron recommended.

**WORK / HYGIENIC PRACTICES:**

Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.

**ENGINEERING CONTROLS:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**EXPOSURE GUIDELINES:**

N/A

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**SOLUBILITY IN WATER:** N/A

**APPEARANCE AND ODOR:** Off white, milky liquid, slight odor.

**BOILING POINT:** N/A

**VAPOR PRESSURE:** N/A

**EVAPORATION:** N/A

**POUNDS PER GALLON:**

**SPECIFIC GRAVITY:** 1.0

**MELTING POINT:**

**FREEZING POINT:**

**PERCENT VOLATILE:**

**PH:**

**MOLECULAR WEIGHT:**

**VAPOR DENSITY:** N/A

**OTHER PROPERTIES:**

**10. STABILITY AND REACTIVITY****STABLE:**

Stable

**INCOMPATIBILITY:**

Avoid uncontrolled contamination with Amines, Bases, Mercaptans, and Strong acids.

**HAZARDOUS DECOMPOSITION OR BY PRODUCTS:**

N/A

**HAZARDOUS POLYMERIZATION:**

Will Not Occur

**11. TOXICOLOGY INFORMATION**

N/A

## 12. ECOLOGICAL INFORMATION

N/A

## 13. DISPOSAL CONSIDERATIONS

The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

## 14. TRANSPORTATION INFORMATION

**DOT CLASS:** Not Regulated  
**HAZARD CLASS:** Not Reg  
**UN NUMBER:** Not Reg  
**PACKING:** Not Reg  
**GUIDE NUMBER:** N/R  
**PROPER SHIPPING NAME:** Not Regulated

## 15. REGULATORY INFORMATION

No information available.

## 16. OTHER INFORMATION

**HMIS INFORMATION:**   **HEALTH:** 2   **FLAMMABILITY:** 1   **REACTIVITY:** 0   **PROTECTIVE:** C

### Disclaimer

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.

### Active MSDS statement

This MSDS was reviewed on 08/22/2012 and was determined to be up to date. No changes are needed so no new revision is to be issued at this time. This MSDS is the current active revision.

# MATERIAL SAFETY DATA SHEET

S-4500 Furaset Part B

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MANUFACTURER:** SUMMITVILLE LABORATORIES, INC.  
PO BOX 90  
81 ARBOR ROAD  
MINERVA, OH 44657

**INFORMATION PHONE:** 330-868-6463  
**EMERGENCY PHONE:** 330-223-1511  
**PRODUCT NAME:** S-4500 Furaset Part B  
**PRODUCT NUMBER:**  
**UPC NUMBER:**

**PREPARED BY:** Safety Manager

**DATE PREPARED:** 10/31/02

**LAST REVISION:** 10/31/02

**SYNONYMS:**

### PROPER SHIPPING NAME:

Corrosive Liquid, n.o.s. (nonylphenol, triethylenetetramine mixture)

### UN NUMBER:

**UN NUMBER:** 1760

**HAZARD CLASS:** 8

**PACKING:** 11

### HMIS INFORMATION:

**HEALTH:** 3

**FLAMMABILITY:** 1

**REACTIVITY:** 0

**PROTECTIVE:** H

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	%	OSHA PEL	ACGIH TLV
TRIETHYLENE TETRAMINE	112243		N/A	N/A
PHENOL, NONYL-	25154523		N/A	N/A

## 3. HAZARDOUS IDENTIFICATION

**EMERGENCY OVERVIEW:** Corrosive to eyes, skin, respiratory and digestive tracts. Can cause sensitization. Skin exposure may be of sufficient quantities or duration to become toxic. Ignition will cause class B fires. Large fires, use alcohol foam or water spray. Small fires: use carbon Dioxide(CO2), dry chemical, dry sand or limestone.

### POTENTIAL HEALTH EFFECTS

**EYE CONTACT:** Corrosive to the eyes and may cause severe damage including blindness.

**INHALATION:** Irritating to the nose, throat, and respiratory tract. Choking, coughing, and headache may occur.

**INGESTION:** May cause severe and permanent damage to mouth, throat, stomach, and digestive tract.

**SKIN CONTACT:** Severely irritating; may cause permanent skin damage. Prolonged skin contact may also cause harmful/potentially toxic amounts of material to be absorbed into the skin. Prolonged and repeated contact will cause lifetime sensitization to occur. Material is corrosive and can cause pain, redness, and burns. Possible necrosis and permanent injury.

### SIGNS AND SYMPTOMS OF EXPOSURE:

Shortness of breathing, confused behavior, redness of skin, nausea, headache, burning sensation on skin, eyes, nasal passages, mouth, digestive tract, general body discomfort (ill feeling).

## 4. FIRST AID MEASURES

- EYE CONTACT:** Immediately flush eyes with plenty of water. Get medical attention if irritation persists.
- INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
- INGESTION:** If swallowed, do NOT induce vomiting. Give victim two glasses of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
- SKIN CONTACT:** Remove contaminated clothing and shoes. Wash affected area with soap and water. Cover clean affected areas with sterile dressing if necessary. Do not apply greases or ointments. Seek medical attention if irritation persists.

### AGGRAVATED MEDICAL CONDITIONS:

Sensitization/allergic reaction development can occur from prolonged repeated contact without use of proper protective equipment. Corneal damage, rash, tightness of chest, coughing, and nasal passage dryness may occur as a result of prolonged and repeated exposure to this product without the use of proper protective equipment. Persons with a history of chronic respiratory or skin conditions may be at increased risk of inflammation of their condition from exposure to this product.

### SUPPLEMENTAL HEALTH INFORMATION:

Repeated and/or long term exposure to this material in liquid form may aggravate the following medical conditions: Asthma, chronic respiratory diseases, eye diseases, skin disorders and allergies.

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

**FLASH POINT:** 280

**FLASH POINT METHOD USED:** Closed Cup

**AUTO IGNITION:** Not Determined

**LEL:** **UEL:**

### **EXTINGUISHING MEDIA:**

Large fires, use water spray, alcohol foam. Small fires may use carbon dioxide (CO<sub>2</sub>), dry chemical, dry sand, or limestone.

### **SPECIAL FIRE FIGHTING PROCEDURES:**

The use of a positive pressure, SCBA is recommended for firefighters. Butyl rubber boots, gloves, and body suit. Retain expended liquids from fire for later disposal.

### **UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Personnel in vicinity and downwind should be evacuated. Burning material may generate toxic or irritating combustion products including; carbon monoxide gas, nitrogen oxide gasses, ammonia gas, possible nitric acid.

### **COMBUSTION PRODUCTS:**

Nitrogen oxide, carbon monoxide, ammonia, nitrosamines, nitric acid, and oxides of nitrogen gasses.

## 6. ACCIDENTAL RELEASE MEASURES

### **STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:**

Small spills: Mop up, wipe up or soak up immediately. Large spills: Ventilate area and remove ignition sources. Water spray/fog may be used to reduce vapor spreading. Dike to prevent further spread of material. Wear appropriate protective equipment during clean up. Transfer to closed containers for disposal.

## 7. HANDLING AND STORAGE

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in a cool, dry, well ventilated area in closed containers. Separate from acids, acidic catalysts, and oxidizers. Use adequate ventilation to keep exposure below TLV.

### OTHER PRECAUTIONS:

Empty containers retain product residue and can be dangerous. Follow all hazard precautions given even on empty containers. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to flame, sparks, static electricity, or other sources of ignition.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### RESPIRATORY PROTECTION:

Proper ventilation required. Wear an appropriate cartridge respirator when strong odor and poor ventilation are present.

### VENTILATION:

Controlling airborne concentration below the ACGIH TLV exposure guideline is recommended. Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

### PROTECTIVE GLOVES:

Wear rubber or latex gloves to reduce skin exposure.

### EYE PROTECTION:

Safety glasses with side shields (or goggles) as appropriate.

### OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Where splashing is possible, full chemically resistant protective clothing (e.g., acid/solvent suit) and boots are recommended.

### WORK / HYGIENIC PRACTICES:

Use good personal hygiene when handling this product. Wash hands after use, before eating, smoking, or using the toilet.

### ENGINEERING CONTROLS:

Maintain air levels below established TLVs for this material. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### EXPOSURE GUIDELINES:

Not Available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**SOLUBILITY IN WATER:** Infinite in water

**APPEARANCE AND ODOR:** Amber liquid, fishy or phenol odor.

<b>BOILING POINT:</b>	210	<b>PERCENT VOLATILE:</b>	Not Determined
<b>VAPOR PRESSURE:</b>	1.37	<b>PH:</b>	Not Determined
<b>EVAPORATION:</b>	Not Determined.	<b>MOLECULAR WEIGHT:</b>	Not Determined
<b>POUNDS PER GALLON:</b>	8.16455928	<b>VAPOR DENSITY:</b>	5.03
<b>SPECIFIC GRAVITY:</b>	0.97464	<b>OTHER PROPERTIES:</b>	Not Determined
<b>MELTING POINT:</b>	Not Determ		

**FREEZING POINT:** Not Determ

## 10. STABILITY AND REACTIVITY

### STABLE:

Stable

### INCOMPATIBILITY:

Avoid uncontrolled contact with strong oxidizing agents, mineral acids, and epoxy resins.

### HAZARDOUS DECOMPOSITION OR BY PRODUCTS:

Burning may release carbon monoxide and dioxide, nitrogen oxides, which can mix with water to form nitric acid. Ammonia may be released. The oxides of nitrogen gasses emitted during decomposition are highly toxic.

## 11. TOXICOLOGY INFORMATION

Not Available

**HAZARDOUS POLYMERIZATION:** Will Not Occur

## 12. ECOLOGICAL INFORMATION

Not Available

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with all Federal, State, and Local regulations.

## 14. TRANSPORTATION INFORMATION

**DOT CLASS:** Corrosive Liquid, n.o.s. (nonylphenol, triethylenetetramine mixture)

**HAZARD CLASS:** 8

**UN NUMBER:** 1760

**PACKING:** 11

**GUIDE NUMBER:** 153

**PROPER SHIPPING NAME:** Corrosive Liquid, n.o.s. (nonylphenol, triethylenetetramine mixture)

## 15. REGULATORY INFORMATION

All of the components of this material are either listed on the TSCA Inventory, or are not subject to notification requirements (exempt). This material may contain trace amounts of chemicals known in the state of California to cause cancer, birth defects, or other reproductive toxicity.

## 16. OTHER INFORMATION

**HMIS INFORMATION:** **HEALTH:** 3 **FLAMMABILITY:** 1 **REACTIVITY:** 0 **PROTECTIVE:** H

### Disclaimer

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# MATERIAL SAFETY DATA SHEET

S-4500 PART C

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MANUFACTURER:** SUMMITVILLE LABORATORIES, INC.  
PO BOX 90  
81 ARBOR ROAD  
MINERVA, OH 44657

**INFORMATION PHONE** 330-868-6463  
**EMERGENCY PHONE** 330-223-1511  
**24 HOUR SPILL AND** 800-424-9300chemtrec  
**EMERGENCY PHONE:**

**PRODUCT NAME:** S-4500 PART C  
**PRODUCT NUMBER:** 52-00-9070C  
**UPC NUMBER:**  
**PREPARED BY:** Safety Manager  
**DATE PREPARED:** 10/18/00  
**LAST REVISION:** 6/30/94  
**SYNONYMS:** COLORQUARTZ AGGREGATE

**UN NUMBER:** Not Reg  
**N. AMER. EMER GUIDE #:** N/R  
**HAZARD CLASS:** Not Reg  
**PACKING GROUP:** Not Reg  
**PROPER SHIPPING NAME:**  
Not Regulated

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	OSHA PEL	ACGIH TLV
SILICA, CRYSTALLINE - QUARTZ	14808607	PEL = SEE TABLE Z-3	TLV = 0.1mg/M3 respirable dust
Natural Iron Oxide	1332372		5mg/M3 TWA
Synthetic Iron Oxide	1332372		
Cellulosic Based Fibers	65996614	15 mppcf	5mg/M3 (respirable)
Aluminum Silicate Hydrous	12141467	10 mg/m3	10 mg/m3

## 3. HAZARDOUS IDENTIFICATION

**EMERGENCY OVERVIEW:** This material is not flammable or reactive; but should be stored in a dry area to preserve material.

### POTENTIAL HEALTH EFFECTS

**EYE CONTACT:** No hazard in normal industrial use.

**INHALATION:** Irritating to the nose, throat, and respiratory tract.

**INGESTION:** No hazard in normal industrial use. Swallowing large amounts may cause damage.

**SKIN CONTACT:** Prolonged exposure may cause skin irritation.

### SIGNS AND SYMPTOMS OF EXPOSURE:

N/A

#### 4. FIRST AID MEASURES

- EYE CONTACT:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.
- INHALATION:** No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.
- INGESTION:** Seek medical attention if material is deliberately ingested.
- SKIN CONTACT:** Wash affected area with soap and water. If irritation persists, get medical attention.

**AGGRAVATED MEDICAL CONDITIONS:**

N/A

**SUPPLEMENTAL HEALTH INFORMATION:**

N/A

#### 5. FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES**

**FLASH POINT:** **FLASH POINT METHOD USED:** N/A

**AUTOIGNITION:** **LEL:** **UEL:**

**EXTINGUISHING MEDIA:**

Generally non-flammable. Use appropriate media for surrounding materials.

**SPECIAL FIRE FIGHTING PROCEDURES:**

The use of a positive pressure, SCBA is recommended for firefighters.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

None known.

**COMBUSTION PRODUCTS:**

none known

#### 6. ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:**

Keep dust to a minimum. Material may be swept by personnel wearing appropriate protective equipment.

#### 7. HANDLING AND STORAGE

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Keep container closed when not in use.

**OTHER PRECAUTIONS:**

N/A

#### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**RESPIRATORY PROTECTION:**

Wear appropriate respirator complying with NIOSH and other appropriate regulations.

**VENTILATION:**

Provide adequate ventilation.

**PROTECTIVE GLOVES:**

Wear gloves as appropriate for sensitive skin.

**EYE PROTECTION:**

Safety glasses with side shields (or goggles) as appropriate.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:**

N/A

**WORK / HYGENIC PRACTICES:**

Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.

**ENGINEERING CONTROLS:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**EXPOSURE GUIDELINES:**

Not Available

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**SOLUABILITY IN WATER:** Not soluble in most cases

**APPEARANCE AND ODOR:** Powder. Little to no odor. Color varies with pigment added.

<b>BOILING POINT:</b> N/A	<b>PERCENT VOLATILE:</b>
<b>VAPOR PRESSURE:</b>	<b>PH:</b>
<b>EVAPORATION:</b> N/A	<b>MOLECULAR WEIGHT:</b>
<b>POUNDS PER GALLON:</b>	<b>VAPOR DENSITY:</b> Not Determined
<b>SPECIFIC GRAVITY:</b>	<b>OTHER PROPERTIES:</b>
<b>MELTING POINT:</b> 1300	
<b>FREEZING POINT:</b>	

**10. STABILITY AND REACTIVITY**

**STABLE:** Stable

**INCOMPATIBILITY:**

None Known.

**HAZARDOUS DECOMPOSITION OR BY PRODUCTS:**

None

**HAZARDOUS POLYMERIZATION:** Will Not Occur

**11. TOXICOLOGY INFORMATION**

Not Available

**12. ECOLOGICAL INFORMATION**

Not Available

**13. DISPOSAL CONSIDERATIONS**

May be disposed of in a sanitary landfill. Always follow appropriate Federal, District, State, Regional, and Local disposal regulations.

**14. TRANSPORTATION INFORMATION**

**DOT CLASSIFICATION:** Not Regulated

**UN NUMBER:** Not Reg

**HAZARD CLASS:** Not Reg

**PACKING:** Not Reg

**GUIDE NUMBER:** N/R

**PROPER SHIPPING NAME:** Not Regulated

**15. REGULATORY INFORMATION**

All of the materials of this product are either listed on the TSCA Inventory, or are not subject to the notification requirements. (are exempted)

**16. OTHER INFORMATION**

**HMS INFORMATION:** HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 PROTECTIVE: E

**Disclaimer**

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