

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-400, 500, 600, 5000 PART B

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: SUMMITVILLE LABORATORIES, INC.

PO BOX 90
81 ARBOR ROAD
MINERVA, OH 44657

PROPER SHIPPING NAME:

Polyamines, liquid, corrosive, n.o.s. (Ethyleneamines)

INFORMATION PHONE: 330-868-6463

EMERGENCY PHONE: 330-223-1511

PRODUCT NAME: S-400, 500, 600, 5000 PART B

PRODUCT NUMBER: 52-00-9045B

UPC NUMBER:

PREPARED BY: Safety Manager

DATE PREPARED: 2/17/00

LAST REVISION: 10/10/96

SYNONYMS: REACTION PRODUCT OF TEPA AND TALL OIL

UN NUMBER: UN 2735

HAZARD CLASS: 8

PACKING: III

HMS INFORMATION:

HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

PROTECTIVE: G

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS # | OSHA PEL | ACGIH TLV |
|------------------------------|----------|--|--------------------------------|
| ALIPHATIC AMINE ADDUCT | 68400668 | | |
| GLYCERIN | 56815 | PEL = Total dust 15 mg/M3 Respirable fraction 5mg/M3 | TLV = 10mg/M3 as mist |
| SILICA, CRYSTALLINE - QUARTZ | 14808607 | PEL = SEE TABLE Z-3 | TLV = 0.1mg/M3 respirable 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: Corrosive and may cause severe and permanent damage to mouth, throat, and stomach.

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 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, 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: 400

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

COMBUSTION PRODUCTS:

N/A

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. Remove to out of doors. Large spills: Contain liquid; transfer to closed metal 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.

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:

Nitrile gloves are recommended.

EYE PROTECTION:

Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

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: SLIGHT

APPEARANCE AND ODOR: Heavy granular paste with slight ammonia odor. (Color Varies)

| | | | |
|---------------------------|-----|--------------------------|------------------|
| BOILING POINT: | | PERCENT VOLATILE: | 0 |
| VAPOR PRESSURE: | | PH: | |
| EVAPORATION: | N/A | MOLECULAR WEIGHT: | |
| POUNDS PER GALLON: | | VAPOR DENSITY: | Heavier Than Air |
| SPECIFIC GRAVITY: | 1.7 | OTHER PROPERTIES: | |
| MELTING POINT: | | | |
| FREEZING POINT: | | | |

10. STABILITY AND REACTIVITY

STABLE:

Stable

OTHER PRECAUTIONS:

INCOMPATIBILITY:

Oxidizing materials and 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: Polyamines, liquid, corrosive, n.o.s. (Ethyleneamines)

HAZARD CLASS: 8

UN NUMBER: UN 2735

PACKING: III

GUIDE NUMBER: 60

PROPER SHIPPING NAME: Polyamines, liquid, corrosive, n.o.s. (Ethyleneamines)

15. REGULATORY INFORMATION

16. OTHER INFORMATION

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

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

MATERIAL SAFETY DATA SHEET

S-28, S-29, 500, 5000 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
PRODUCT NAME: S-28, S-29, 500, 5000 PART C
PRODUCT NUMBER: 52-00-9070C
UPC NUMBER:

PREPARED BY: Safety Manager

DATE PREPARED: 9/20/01

LAST REVISION: 4/5/00
SYNONYMS: COLORED QUARTZ AGGREGATE

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: 1

PROTECTIVE: C

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS # | % | OSHA PEL | ACGIH TLV |
|--|----------|---|--|--|
| SILICA, AMORPHOUS, FUMED | 7631869 | | N/A | TLV = 2mg/M3 FOR RESPIRABLE FRACTION OF DUST |
| SODIUM SILICATE | 1344098 | | NONE | NONE |
| KAOLIN | 1332587 | | PEL = (TOTAL DUST) 15 MG/M3; (RESPIRABLE FRACTION) 5mg/M3 | TLV = 2mg/M3 RESPIRABLE FRACTION OF DUST |
| C.I. PIGMENT BLUE 28 | 1345160 | | NONE | NONE |
| RUTILE TITANIUM DIOXIDE | 1317802 | | 10MG./M3 | 10MG./M3 |
| IRON OXIDE | 1309371 | | PEL = (TOTAL PARTICULATE) 10mg/M3 | TLV = 5mg/M3 FUME |
| IRON ZINC OXIDE (FE2ZNO4) | 12063193 | | N/A | N/A |
| CHROMIUM (III) OXIDE | 1308389 | | PEL = 0.5mg/M3 | TLV = 0.5mg/M3 as CHROMIUM |
| CARBON BLACK | 1333864 | | PEL = 3.5mg/M3 | TLV = 3.5mg/M3 |
| HYDROTREATED HEAVY NAPHTHENIC PETROLEUM DISTILLATES | 64742525 | | N/I | N/I |
| SILICA, CRYSTALLINE - QUARTZ | 14808607 | | PEL = SEE TABLE Z-3 | TLV = 0.1mg/M3 respirable 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: No hazard in normal industrial use.

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

INGESTION: No hazard in normal industrial use.

SKIN CONTACT: No hazard in normal industrial use.

SIGNS AND SYMPTOMS OF EXPOSURE:

N/A

4. FIRST AID MEASURES

EYE CONTACT: N/A

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: N/A

SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

AGGRAVATED MEDICAL CONDITIONS:

Frequent and prolonged contact with eyes and skin can cause irritation. Prolonged exposure above guidelines may cause silicosis.

SUPPLEMENTAL HEALTH INFORMATION:

N/A

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT:

FLASH POINT METHOD USED: N/A

AUTO IGNITION:

LEL:

UEL:

EXTINGUISHING MEDIA:

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

SPECIAL FIRE FIGHTING PROCEDURES:

N/A. Will not burn.

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:

Follow OSHA or other applicable exposure guidelines. Use respirator protection based upon anticipated or actual exposure monitoring results. Local exhaust may or may not be sufficient.

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 / HYGIENIC PRACTICES:

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

ENGINEERING CONTROLS:

Good ventilation should be sufficient to control airborne levels.

EXPOSURE GUIDELINES:

N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

SOLUBILITY IN WATER: N/A

APPEARANCE AND ODOR: Granules

| | |
|------------------------------|---------------------------|
| BOILING POINT: N/A | PERCENT VOLATILE: |
| VAPOR PRESSURE: | PH: |
| EVAPORATION: N/A | MOLECULAR WEIGHT: |
| POUNDS PER GALLON: | VAPOR DENSITY: N/A |
| SPECIFIC GRAVITY: 2.6 | OTHER PROPERTIES: |
| MELTING POINT: | |
| FREEZING POINT: | |

10. STABILITY AND REACTIVITY

STABLE:

Stable

INCOMPATIBILITY:

None Known.

HAZARDOUS DECOMPOSITION OR BY PRODUCTS:

None

HAZARDOUS POLYMERIZATION:

Will Not Occur

11. TOXICOLOGY INFORMATION

N/A

12. ECOLOGICAL INFORMATION

N/A

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 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: 1 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 2/01/2012 & reapproved and is the current MSDS.