

Chemsol, 8423 Boettner Rd, Bridgewater, MI 48115**Product Code:** 2500-MG-GL**Product Name:** 2500 GRAY PART A - GALLON

24-hour Emergency Phone: ChemTrec 703-627-3887

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

(See top of page)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component/Exposure Limits	CAS#	% by Wt.
NEPHELINE SYENITE	37244-96-5	26
OSHA: 5MG/M3 TWA (RESPIRABLE FRACTION)		
ACGIH: 10 MG/M3 TWA (INHALABLE FRACTION)		
MSHA 5 MG/M3 TWA (RESPIRABLE FRACTION)		
MICROCRYSTALLINE SILICA (QUARTZ)	14808-60-7	25.016
ACGIH TLV: 0.10 MG/M3		
ACGIH TLV: 0.05 MG/M3, RESPIRABLE FRACTION		
OSHA PEL: 0.10 MG/M3, RESPIRABLE DUST		
NIOSH: 0.05 MG/M3 TWA, RESPIRABLE DUST		
ALUMINUM OXIDE	1344-28-1	21
OSHA PEL: 15 MG/M3 TWA		
ACGIH TLV: 10 MG/M3 TWA		
1-METHOXY 2-PROPANOL	107-98-2	1
ACGIH: 100 PPM TWA		
OSHA: 100 PPM TWA		
ACGIH: 150 PPM STEL		
OSHA: 150 PPM CEILING		
TITANIUM DIOXIDE	13463-67-7	.813
ACGIH: 10 MG/M3 TWA - NUISANCE DUST		
OSHA: 10 MG/M3 TWA - NUISANCE DUST		

3. HAZARDS IDENTIFICATION**CAUTION!**

PROLONGED EXPOSURE MAY CAUSE EYE, NOSE AND RESPIRATORY TRACT IRRITATION.
MAY CAUSE MECHANICAL EYE IRRITATION. MAY CAUSE MECHANICAL SKIN IRRITATION.
DO NOT SWALLOW.

TARGET ORGANS/CHRONIC EFFECTS: Lungs and respiratory system. Eyes.

Potential Health Effects

EYE: May cause mechanical irritation.

SKIN: May cause mechanical skin irritation.

INGESTION: Not hazardous in normal industrial use.

INHALATION: Can be irritating to the eyes, nose and respiratory tract

Chemsol, 8423 Boettner Rd, Bridgewater, MI 48115**Product Code:** 2500-MG-GL**Product Name:** 2500 GRAY PART A - GALLON**24-hour Emergency Phone:** ChemTrec 703-627-3887

following prolonged exposure. Can cause wheezing, coughing, shortness of breath and tightness in the chest.

CHRONIC (CANCER) INFORMATION: Contains Crystalline Silica. Long term overexposure to products containing Crystalline Silica may cause silicosis. Crystalline Silica is listed as a carcinogen by the NTP and IARC.

TERATOLOGY (BIRTH DEFECT) INFORMATION: INFORMATION NOT AVAILABLE.

REPRODUCTION INFORMATION: INFORMATION NOT AVAILABLE.

4. FIRST AID MEASURES

EYES: Any material that contacts the eye should be washed out immediately with water. Flush with water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

SKIN: Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

INGESTION: Do NOT induce vomiting. Drink 1 or 2 glasses of milk or water to dilute. Call a poison control center or get medical attention immediately. Never give anything by mouth to an unconscious person.

INHALATION: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

NOTE TO PHYSICIANS: INFORMATION NOT AVAILABLE.

5. FIRE FIGHTING MEASURES**FLAMMABLE PROPERTIES:**

FLASH POINT: > 200 F **Method:**

FLAMMABLE LIMITS:

Lower flammable limit: 6.0

Upper flammable limit: 13.8

AUTOIGNITION TEMPERATURE: INFORMATION NOT AVAILABLE.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, soot and carbon dioxide, carbon monoxide.

Chemsol, 8423 Boettner Rd, Bridgewater, MI 48115

Product Code: 2500-MG-GL

Product Name: 2500 GRAY PART A - GALLON

24-hour Emergency Phone: ChemTrec 703-627-3887

EXTINGUISHING MEDIA: Waterbased material will not burn until all water has boiled away. Residual solids and/or product container may support combustion. Use water, foam, dry chemical or CO2.

FIREFIGHTING INSTRUCTIONS: Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards: High temperatures can cause sealed containers to rupture due to a build up of internal pressure. Cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

See Information for Large Spill, below:

LARGE SPILL:

Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Safely stop discharge. Cover spills with absorbent and sweep or scoop up and place in closed chemical waste containers. Dispose of according to local, state and federal regulations.

7. HANDLING AND STORAGE

HANDLING: TRANSFER: No special precautions are needed. Follow good manufacturing and handling practices. If container is warm, open bung slowly to release internal pressure.

STORAGE: Store in a cool, dry, well ventilated area. Keep containers tightly closed.

EMPTY CONTAINER PRECAUTIONS: Attention! This container is hazardous when empty. Follow label warnings even after container is emptied since empty containers may retain product residues. Do not re-use empty container without professional cleaning for food, clothing or products. for human or animal consumption or where skin contact can occur.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Ventilation should be explosion proof. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, spray painting, mechanical generation of dusts, heating, drying,

Chemsol, 8423 Boettner Rd, Bridgewater, MI 48115**Product Code:** 2500-MG-GL**Product Name:** 2500 GRAY PART A - GALLON**24-hour Emergency Phone:** ChemTrec 703-627-3887

etc.

RESPIRATORY PROTECTION: If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 CFR 1152, January 8, 1998. Respirator type: Organic Vapor.

SKIN PROTECTION: Wear impervious gloves to prevent skin contact.
Recommended Decontamination Facilities: eye bath, washing facilities, safety shower.

EYE PROTECTION: Chemical safety goggles or glasses with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: 212 F
SPECIFIC GRAVITY (H2O=1): 1.995
WEIGHT PER GALLON (US): 16.614 lb/gal
EVAPORATION RATE: SLOWER THAN ETHER
COATING VOC: 0.25 lb/gal
MATERIAL VOC: 0.25 lb/gal
SOLUBILITY IN WATER: SOLUBLE
% VOLATILE, WT: 1.76%
%VOLATILE, VOL: 3.7%
APPEARANCE & ODOR: Liquid, mild odor

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): Stable under normal storage/use conditions.

INCOMPATIBILITY: Avoid strong oxidizing agents, acids and alkalies.

HAZARDOUS DECOMPOSITION PRODUCTS: INFORMATION NOT AVAILABLE.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

EYE: SEE SECTION 3

SKIN: SEE SECTION 3

INGESTION: SEE SECTION 3

INHALATION: SEE SECTION 3

Chemsol, 8423 Boettner Rd, Bridgewater, MI 48115**Product Code:** 2500-MG-GL**Product Name:** 2500 GRAY PART A - GALLON**24-hour Emergency Phone:** ChemTrec 703-627-3887**SUBCHRONIC: INFORMATION NOT AVAILABLE.****CHRONIC/CARCINOGENICITY: SEE SECTION 3****TERATOLOGY: SEE SECTION 3****REPRODUCTION: SEE SECTION 3****MUTAGENICITY: INFORMATION NOT AVAILABLE.****12. ECOLOGICAL INFORMATION**

ECOTOXICOLOGICAL INFORMATION: INFORMATION NOT AVAILABLE.
This material has not been tested for environmental effects.

CHEMICAL FATE INFORMATION: INFORMATION NOT AVAILABLE.

13. DISPOSAL CONSIDERATIONS

Discharge, treatment or disposal is subject to national, state, or local laws. The toxicity characteristic (TC) has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

Federal Regulations may apply to empty container. State and/or local regulations may be different.

Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) recycle or rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.

Be sure to contact the appropriate government environmental agencies if further guidance is required.

14. TRANSPORT INFORMATION(Not meant to be all inclusive)

DOT (USA) Shipping Name: Not regulated by DOT

UN/NA ID No: n/a

Hazard Class: n/a

Packing Group: n/a

15. REGULATORY INFORMATION(Not meant to be all inclusive - selected regulations represented)

U.S. FEDERAL REGULATIONS: All components of this material are on the US TSCA 8(b) Inventory or are exempt from listing.

OSHA: INFORMATION NOT AVAILABLE.

Chemsol, 8423 Boettner Rd, Bridgewater, MI 48115

Product Code: 2500-MG-GL

Product Name: 2500 GRAY PART A - GALLON

24-hour Emergency Phone: ChemTrec 703-627-3887

CERCLA: SARA HAZARD CATEGORY: INFORMATION NOT AVAILABLE.

SECTION 313: "*" Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: INFORMATION NOT AVAILABLE.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): INFORMATION NOT AVAILABLE.

EINECS: INFORMATION NOT AVAILABLE.

STATE REGULATIONS:

INFORMATION NOT AVAILABLE.

16. OTHER INFORMATION

MSDS Status: Active

MSDS Effective/Revision Date: 01/16/14

-

USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. These data relate only to the specific material designated herein and do not relate to use in combination with any other material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

Date Printed: 3/6/2014

Page: 7

Chemsol, 8423 Boettner Rd, Bridgewater, MI 48115

Product Code: 2500-MG-GL

Product Name: 2500 GRAY PART A - GALLON

24-hour Emergency Phone: ChemTrec 703-627-3887

End of Material Safety Data Sheet

Chemsol, 8423 Boettner Rd, Bridgewater, MI 48115**Product Code:** PTB-2500-QT**Product Name:** 2500 HARDENER PART B - QUART

24-hour Emergency Phone: ChemTrec 703-627-3887

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

(See top of page)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component/Exposure Limits	CAS#	% by Wt.
POLYAMIDO AMINE	68605-86-7	48
NONE ESTABLISHED; CAUSES SEVERE SKIN AND EYE IRRITATION OR BURNS		
AMIDOAMINE RESIN	68443-08-3	36
NONE ESTABLISHED; CAUSES SEVERE SKIN AND EYE IRRITATION WITH CORNEAL INJURY		
MAY CAUSE ALLERGIC SKIN RESPONSE; HARMFUL IF ABSORBED THROUGH SKIN		
MAY CAUSE ALLERGIC RESPIRATORY RESPONSE		
AMORPHOUS SILICA	67762-90-7	9
ACGIH: 10 MG/M3 TWA, TOTAL DUST		
ACGIH: 3 MG/M3 TWA, RESPIRABLE DUST		
OSHA PEL: 6 MG/M3 TWA		
4-TERT-BUTYLPHENOL	98-54-4	3
NONE ESTABLISHED		

3. HAZARDS IDENTIFICATION**CAUTION!**

GASTROINTESTINAL IRRITANT. RESPIRATORY SENSITIZER.
 SKIN IRRITANT. RESPIRATORY IRRITANT. SKIN SENSITIZER.
 EYE CORROSIVE.

TARGET ORGANS/CHRONIC EFFECTS: Lungs and respiratory system. Eyes.

Potential Health Effects

EYE: This product is a primary eye irritant and corrosive effects were indicated by animal studies.

SKIN: May cause mechanical skin irritation. May cause moderate irritation. May cause allergic skin reactions and sensitization. Can cause redness, itching, and burning sensation.

INGESTION: Not hazardous in normal industrial use.

INHALATION: Can be irritating to the eyes, nose and respiratory tract following prolonged exposure. Can cause wheezing, coughing, shortness of breath and tightness in the chest. May cause an allergic respiratory response in some susceptible individuals. This response can range from

Chemsol, 8423 Boettner Rd, Bridgewater, MI 48115**Product Code:** PTB-2500-QT**Product Name:** 2500 HARDENER PART B - QUART**24-hour Emergency Phone:** ChemTrec 703-627-3887

mild wheezing to a severe asthmatic type attack.

CHRONIC (CANCER) INFORMATION: INFORMATION NOT AVAILABLE.

TERATOLOGY (BIRTH DEFECT) INFORMATION: INFORMATION NOT AVAILABLE.

REPRODUCTION INFORMATION: INFORMATION NOT AVAILABLE.

4. FIRST AID MEASURES

EYES: Any material that contacts the eye should be washed out immediately with water. Flush with water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

SKIN: Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

INGESTION: Do NOT induce vomiting. Drink 1 or 2 glasses of milk or water to dilute. Call a poison control center or get medical attention immediately. Never give anything by mouth to an unconscious person.

INHALATION: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

NOTE TO PHYSICIANS: INFORMATION NOT AVAILABLE.

5. FIRE FIGHTING MEASURES**FLAMMABLE PROPERTIES:**

FLASH POINT: > 200 F **Method:** n/a

FLAMMABLE LIMITS:

Lower flammable limit: n/a

Upper flammable limit: n/a

AUTOIGNITION TEMPERATURE: INFORMATION NOT AVAILABLE.

HAZARDOUS COMBUSTION PRODUCTS: Smoke, soot and carbon dioxide, carbon monoxide.

EXTINGUISHING MEDIA: Waterbased material will not burn until all water has boiled away. Residual solids and/or product container may support combustion. Use water, foam, dry chemical or CO2.

Chemsol, 8423 Boettner Rd, Bridgewater, MI 48115

Product Code: PTB-2500-QT

Product Name: 2500 HARDENER PART B - QUART

24-hour Emergency Phone: ChemTrec 703-627-3887

FIREFIGHTING INSTRUCTIONS: Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.
Unusual Fire and Explosion Hazards: High temperatures can cause sealed containers to rupture due to a build up of internal pressure. Cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

See Information for Large Spill, below:

LARGE SPILL:

Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Safely stop discharge. Cover spills with absorbent and sweep or scoop up and place in closed chemical waste containers. Dispose of according to local, state and federal regulations.

7. HANDLING AND STORAGE

HANDLING: TRANSFER: No special precautions are needed. Follow good manufacturing and handling practices. If container is warm, open bung slowly to release internal pressure.

STORAGE: Store in a cool, dry, well ventilated area. Keep containers tightly closed.

EMPTY CONTAINER PRECAUTIONS: Attention! This container is hazardous when empty. Follow label warnings even after container is emptied since empty containers may retain product residues. Do not re-use empty container without professional cleaning for food, clothing or products. for human or animal consumption or where skin contact can occur.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Ventilation: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Ventilation should be explosion proof. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, spray painting, mechanical generation of dusts, heating, drying, etc.

RESPIRATORY PROTECTION: If engineering controls do not maintain airborne

Chemsol, 8423 Boettner Rd, Bridgewater, MI 48115**Product Code:** PTB-2500-QT**Product Name:** 2500 HARDENER PART B - QUART**24-hour Emergency Phone:** ChemTrec 703-627-3887

concentrations to an acceptable level, an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 CFR 1152, January 8, 1998. Respirator type: Organic Vapor.

SKIN PROTECTION: Wear impervious gloves to prevent skin contact.
Recommended Decontamination Facilities: eye bath, washing facilities, safety shower.

EYE PROTECTION: Chemical safety goggles or glasses with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: 212 F
SPECIFIC GRAVITY (H2O=1): 1.012
WEIGHT PER GALLON (US): 8.428 lb/gal
EVAPORATION RATE: SLOWER THAN ETHER
COATING VOC: 0.0 lb/gal
MATERIAL VOC: 0.0 lb/gal
SOLUBILITY IN WATER: SOLUBLE
% VOLATILE, WT: .%
%VOLATILE, VOL: .%
APPEARANCE & ODOR: Liquid, mild odor

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY (CONDITIONS TO AVOID): Stable under normal storage/use conditions.

INCOMPATIBILITY: Avoid strong oxidizing agents, acids and alkalies.

HAZARDOUS DECOMPOSITION PRODUCTS: INFORMATION NOT AVAILABLE.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

11. TOXICOLOGICAL INFORMATION

EYE: SEE SECTION 3

SKIN: SEE SECTION 3

INGESTION: SEE SECTION 3

INHALATION: SEE SECTION 3

SUBCHRONIC: INFORMATION NOT AVAILABLE.

CHRONIC/CARCINOGENICITY: SEE SECTION 3

Chemsol, 8423 Boettner Rd, Bridgewater, MI 48115**Product Code:** PTB-2500-QT**Product Name:** 2500 HARDENER PART B - QUART

24-hour Emergency Phone: ChemTrec 703-627-3887

TERATOLOGY: SEE SECTION 3**REPRODUCTION: SEE SECTION 3****MUTAGENICITY: INFORMATION NOT AVAILABLE.****12. ECOLOGICAL INFORMATION**

ECOTOXICOLOGICAL INFORMATION: INFORMATION NOT AVAILABLE.
This material has not been tested for environmental effects.

CHEMICAL FATE INFORMATION: INFORMATION NOT AVAILABLE.

13. DISPOSAL CONSIDERATIONS

Discharge, treatment or disposal is subject to national, state, or local laws. The toxicity characteristic (TC) has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP). Federal Regulations may apply to empty container. State and/or local regulations may be different. Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) recycle or rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility. Be sure to contact the appropriate government environmental agencies if further guidance is required.

14. TRANSPORT INFORMATION (Not meant to be all inclusive)

DOT (USA) Shipping Name: ORM-D CONSUMER COMMODITY
UN/NA ID No: N/A
Hazard Class: N/A
Packing Group: N/A

15. REGULATORY INFORMATION (Not meant to be all inclusive - selected regulations represented)

U.S. FEDERAL REGULATIONS: All components of this material are on the US TSCA 8(b) Inventory or are exempt from listing.

OSHA: INFORMATION NOT AVAILABLE.

CERCLA: SARA HAZARD CATEGORY: INFORMATION NOT AVAILABLE.

SECTION 313: "*" Indicates toxic chemical(s) subject to the reporting

Chemsol, 8423 Boettner Rd, Bridgewater, MI 48115**Product Code:** PTB-2500-QT**Product Name:** 2500 HARDENER PART B - QUART24-hour Emergency Phone: ChemTrec 703-627-3887

requirements of section 313 of Title III and of 40 CFR 372.

INTERNATIONAL REGULATIONS:

CANADIAN WHMIS: INFORMATION NOT AVAILABLE.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA): INFORMATION NOT AVAILABLE.

EINECS: INFORMATION NOT AVAILABLE.

STATE REGULATIONS:

INFORMATION NOT AVAILABLE.

16. OTHER INFORMATION

MSDS Status: Active

MSDS Effective/Revision Date: 02/14/14

-
USERS RESPONSIBILITY: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

DISCLAIMER OF LIABILITY: The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. These data relate only to the specific material designated herein and do not relate to use in combination with any other material. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.

End of Material Safety Data Sheet