

# SAFETY DATA SHEET

**Chemsol, 12944 Farmington Rd, Livonia, MI 48150**

2500 HARDENER PART B - BAG

Date Printed: 3/16/2018

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## 1. Product and Company Identification

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Product Name : 2500 HARDENER PART B - BAG

Product Code : PTB-2500-BG

Recommended Use: Please refer to Product Information/Technical Data Sheet.

Company Identification:

Chemsol

12944 Farmington Rd.

Livonia, MI 48150

Information Phone: 888-697-6001

Emergency Phone: 703-527-3887

## 2. Hazards Identification

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EMERGENCY OVERVIEW

DANGER

Acute Toxicity, Category 1

Skin Corrosion, Category 1A

Serious Eye Damage, Category 1

Causes severe skin burns and eye damage, Category 1

Chronic, Respiratory Sensitizer, Category 1; Skin Sensitizer, Category 1B

May be corrosive to metals



Potential Health Effects

Eye:

This product is a primary eye irritant and corrosive effects were indicated by animal studies. Can cause eye irritation.

Skin:

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

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## Ingestion:

If swallowed, call a poison control center or physician if you feel unwell.  
Rinse mouth.

## Inhalation:

May cause an allergic respiratory response in some susceptible individuals.  
This response can range from mild wheezing  
to a severe asthmatic type attack. May cause drowsiness or dizziness.

## Chronic (Cancer) Information:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probably, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## Teratology (Birth Defects) Information:

INFORMATION NOT AVAILABLE.

## Reproduction Information:

INFORMATION NOT AVAILABLE.

## Aggravation of Pre-Existing Conditions:

Dermatitis or other skin conditions.

### 3. Composition/Information on Ingredients

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Component	CAS#	% by Wt.
POLYAMIDO AMINE	68605-86-7	49
NONE ESTABLISHED; CAUSES SEVERE SKIN AND EYE IRRITATION OR BURNS		
TOFA REACTION PRODUCTS W/TEPA	68953-36-6	27
EPOXIDIZED OLEIC ACID REACTION PRODUCTS W/TEPA	68298-14-6	9
AMORPHOUS SILICA	67762-90-7	7
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	4
NONE ESTABLISHED		
M-XYLENEDIAMINE	1477-55-0	2
OSHA OEL: 0.1 mg/m3 (CEILING); SKIN DESIGNATION		

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ACGIH TLV: 0.1 mg/m3 (CEILING); SKIN DESIGNATION  
CAUSES SEVERE IRRITATION AND BURNS, POSSIBLE ALLERGIC REACTION  
1,5-PENTANEDIAMINE, 2-METHYL 15520-10-2 1  
CAUSES RESPIRATORY SENSITIZATION  
CAUSES SEVERE IRRITATION AND BURNS

## 4. First Aid Measures

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### Eyes:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

### Skin:

If on skin: wash with plenty of soap & water. If skin irritation occurs: Get Medical advice/attention.

Take off contaminated clothing and wash it before reuse.

### Ingestion:

If swallowed: Immediately call a poison center/physician.  
Do NOT induce vomiting.

### Inhalation:

If inhaled: Remove person to fresh air and keep comfortable for breathing.  
Call a poison control center/get medical attention if you feel unwell.

### Note to Physicians:

INFORMATION NOT AVAILABLE.

## 5. Fire Fighting Measures

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### Flammable Properties:

Flash Point: 220 F Method:

### Explosive Limits:

Lower explosive limit: n/a

Upper explosive limit: n/a

### Autoignition Temperature:

INFORMATION NOT AVAILABLE.

### Hazardous Combustion Products:

Smoke, soot and carbon dioxide, carbon monoxide.

### Extinguishing Media:

Dry chemical, CO2, Halon, Foam

### Firefighting Procedures:

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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. Vapors are heavier than air and can travel some distance away and flash back.

Sensitivity to Static Discharge: Material may accumulate a static charge which could act as an ignition source.

Precautions should be taken when pouring to minimize splash/free fall.

## **6. Accidental Release Measures**

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Small Spill:

See Information for Large Spill, below:

Large Spill:

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental Precautions:

INFORMATION NOT AVAILABLE.

Methods/Materials for Containment and Cleaning Up:

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/state/federal regulations.

## **7. Handling and Storage**

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Handling:

INFORMATION NOT AVAILABLE.

Storage:

Prevent unauthorized access.

Store in a well ventilated place.

Keep container tightly closed.

Keep cool.

## **8. Exposure Controls/Personal Protection**

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Airborne Exposure Limits:

SEE SECTION 3 FOR THIS INFORMATION

Engineering Controls:

Ventilation: Good general ventilation (typically 10 air changes per hour) should be used.

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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.

## Personal Protective Equipment

### 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**

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Boiling Point: n/a

Melting Point:

INFORMATION NOT AVAILABLE.

Freezing Point: n/a

Vapor Pressure:

Information not available for mixture

Vapor Density:

HEAVIER THAN AIR

Solubility in Water:

NEGLIGIBLE

Evaporation Rate: SLOWER THAN ETHER

Specific Gravity: 1.001

Coating VOC: 0.03 lb/gl

Material VOC: 0.03 lb/gl

Odor:

INFORMATION NOT AVAILABLE.

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Appearance:

Liquid.

Partition Coefficient:

INFORMATION NOT AVAILABLE.

## **10. Stability and Reactivity**

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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**

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Eye Irritation/Damage:

Component 1477-55-0:

Serious eye damage, Category 1

Component 67762-90-7:

Non-irritating.

Component 15520-10-2:

Serious eye damage, Category 1

Component 68605-86-7:

Serious eye damage, Category 1

Components 68953-36-6 & 68298-14-6:

Serious eye damage, Category 1

Component 98-54-4:

Serious eye damage, Category 1

Skin Irritation/Damage:

Component 1477-55-0:

LD50: no data

Corrosive to skin, Category 1A

Component 67762-90-7:

LD50: No data, Non-irritating.

Component 15520-10-2:

LD50: no data

Corrosive to skin, Category 1A

Component 68605-86-7:

LD50: 800 mg/kg, rat. Category 3

Extremely corrosive to skin, Category 1B

Components 68953-36-6 & 68298-14-6:

LD50: 1700 mg/kg, rat. Category 4

Extremely corrosive to skin, Category 1B

Component 98-54-4:

LD50: no data

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Corrosive to skin, Category 1A

## Acute Oral Toxicity:

Component 1477-55-0:

LD50: no data

Component 67762-90-7:

LD50: >5000 mg/kg, rat. Not Categorized.

Component 15520-10-2 :

LD50: 1.69 mg/kg, rat. Category 1.

Component 68605-86-7:

LD50: 4340, rat. Not categorized.

Components 68953-36-6 & 68298-14-6:

LD50: 1200-1600, rat. Category 4.

Component 98-54-4:

LD50: no data

## Acute Inhalation Toxicity:

Component 1477-55-0:

LC50: no data

Component 67762-90-7:

No data

Component 15520-10-2:

LC50: 4.9 mg/L (1029 ppm), rat. Category 3.

Component 68605-86-7:

No data

Components 68953-36-6 & 68298-14-6:

No data

Component 98-54-4:

LC50: no data

## Respiratory/Skin Sensitization:

Component 1477-55-0:

May cause skin sensitization and/or respiratory sensitization, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING.

Component 67762-90-7:

No evidence of respiratory or skin sensitization.

Component 15520-10-2:

May cause skin sensitization and/or respiratory sensitization, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING.

May cause skin sensitization and/or respiratory sensitization, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING.

Components 68953-36-6 & 68298-14-6:

May cause skin sensitization and/or respiratory sensitization, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING.

Component 98-54-4:

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May cause skin sensitization and/or respiratory sensitization, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING.

## Carcinogenicity:

Component 1477-55-0:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

Component 67762-90-7:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

Component 15520-10-2:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

Component 68605-86-7:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

Components 68953-36-6 & 68298-14-6:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

Component 98-54-4:

Not listed as a carcinogen by IARC, NTP, OSHA or ACGIH.

## Reproductive Toxicity:

Component 1477-55-0:

No data

Component 67762-90-7:

No evidence of human reproductive toxicity.

Component 15520-10-2:

No data

Component 68605-86-7:

No data.

Components 68953-36-6 & 68298-14-6:

No data.

Component 98-54-4:

No data

## Germ Cell Mutagenicity:

Component 1477-55-0:

No data

Component 67762-90-7:

No data

Component 15520-10-2:

No data

Component 68605-86-7:

No data

Components 68953-36-6 & 68298-14-6:

No data

Component 98-54-4:

No data

## Aspiration Toxicity:

Component 1477-55-0:

Not classified as an Aspiration Hazard.

Component 67762-90-7:



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Not classified as an Aspiration Hazard.

Component 15520-10-2:

Not classified as an Aspiration Hazard.

Component 68605-86-7:

Not classified as an Aspiration Hazard.

Components 68953-36-6 & 68298-14-6:

Not classified as an Aspiration Hazard.

Component 98-54-4:

Not classified as an Aspiration Hazard.

STOT-single exposure

Component 1477-55-0

No data

Component 67762-90-7:

No data

Component 15520-10-2:

No data

Component 68605-86-7:

No data

Components 68953-36-6 & 68298-14-6:

No data

Component 98-54-4:

No data

STOT-repeated exposure

Component 1477-55-0:

No data

Component 67762-90-7:

No data

Component 15520-10-2:

No data

Component 68605-86-7:

No data

Components 68953-36-6 & 68298-14-6:

No data

Component 98-54-4:

No data

Routes of Exposure:

Inhalation of vapors, skin/eye/mucous membrane absorption, ingestion.

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## 12. Ecological Information

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Environmental Toxicity:

Component 1477-55-0:

No data

Component 67762-90-7:

LC50: <10,000 mg/l (fish); EC50: <1,000 mg/l (daphnia); EC50: <10,000 mg/l (algae)

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Component 15520-10-2:

No data

Component 68605-86-7:

No data

Components 68953-36-6 & 68298-14-6:

No data

Component 98-54-4:

No data

Persistence & degradability:

Component 1477-55-0:

No data

Component 67762-90-7:

No data

Component 15520-10-2:

No data

Component 68605-86-7:

No data

Components 68953-36-6 & 68298-14-6:

No data

Component 98-54-4:

No data

Bioaccumulative potential:

Component 1477-55-0:

No data.

Component 67762-90-7:

Not expected to bioaccumulate.

Component 15520-10-2:

No data.

Component 68605-86-7:

No data

Components 68953-36-6 & 68298-14-6:

No data

Component 98-54-4:

No data.

Mobility in soil:

Component 1477-55-0:

No data

Component 67762-90-7:

No data

Component 15520-10-2:

No data

Component 68605-86-7:

No data

Components 68953-36-6 & 68298-14-6:

No data

Component 98-54-4:

No data

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Other Adverse Ecological Effects:

No information

## **13. Disposal Considerations**

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Waste Disposal Method:

Discharge, treatment or disposal is subject to national, state, or local laws. When a decision is made to discard this material as supplied, it meets RCRA's characteristic definition of ignitability. 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**

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Domestic (Land, DOT), International (Water, IMO/IMDG), International (Air, ICAO) Road and Rail (ADR/RID), Air (ICAO/IATA), Vessel (IMO/IMDG):  
DOT (USA) Shipping Name: PAINT RELATED MATERIAL, CORROSIVE  
UN/NA ID No: UN3066  
Hazard Class: Class 8 (IATA/49CFR)  
Packing Group: II

Environmental Hazards:

INFORMATION NOT AVAILABLE.

Marine Pollutant:

Components of this product do not appear on the list of Marine Pollutants (49CFR 172.101)

Special Precautions for User:

INFORMATION NOT AVAILABLE.

## **15. Regulatory Information**

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U.S. Federal Regulations:

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

OSHA:

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This product is hazardous under OSHA's Hazard Communication Std. Not regarded as a health hazard under current legislation.

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.

Volatile Organic Compounds:

COATING VOC content is being expressed as mass of VOC per unit volume of coating less water and exempt solvents, where applicable.

MATERIAL VOC content is the actual weight of VOC per unit volume.

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## 16. Other Information

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Date Revised: 08/03/17

Prepared By: Regulatory Compliance

Information Contact: Regulatory Compliance 413-592-4191 ext 106

Manufacturer Disclaimer:

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

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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