

ISSUE DATE: 1/15/1990

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**1. PRODUCT AND COMPANY IDENTIFICATION****GHS PRODUCT IDENTIFIER:**

TRADE NAME; CHEMSAFE 400

**OTHER MEANS OF IDENTIFICATION:****RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:**

RECOMMENDED USE: ADHESIVE REMOVER

**SUPPLIER'S DETAILS:**

1480 GRANDVIEW AVE.  
THOROFARE, NJ 08086  
(800)767-6933

**EMERGENCY PHONE NUMBER:**

COMPANY PHONE NUMBER: (800)767-6933

(24HR) EMERGENCY NUMBER: CHEM-TREC (800)424-9300

**2. HAZARD IDENTIFICATION****GHS CLASSIFICATION:**

GHS CLASSIFICATION SCALE: (1=SEVERE HAZARD, 4=SLIGHT HAZARD)

ACUTE TOXICITY-ORAL	CATEGORY 4
SKIN CORROSION IRRITATION	CATEGORY 1B
SERIOUS EYE DAMAGE IRRITATION	CATEGORY 1
SPECIFIC TARGET ORGAN SYSTEMIC	CATEGORY 3
TOXICITY-SINGLE EXPOSURE, CENTRAL NERVOUS SYSTEM, RESPIRATORY TRACT	

**LABEL ELEMENTS:****SIGNAL WORD: DANGER****HAZARD STATEMENTS:**

Harmful if swallowed  
Causes severe skin burns and eye damage  
Causes serious eye damage  
May cause respiratory irritation  
May cause drowsiness or dizziness

**HAZARD SYMBOLS:****PRECAUTIONARY STATEMENTS:**

Keep container tightly closed.  
 Do not breathe dust/fume/gas/mist/vapors/spray.  
 Wash hands, face and all exposed skin areas after handling.  
 Do not eat, drink, or smoke when using this product.  
 Use only outdoors or in a well ventilated area.  
 Wear protective gloves/protective clothing/eye protection/face protection

**PRECAUTIONARY STATEMENTS (RESPONSE):**

**IF SWALLOWED:** Rinse mouth. Do not induce vomiting. Immediately call a doctor or physician

**IF ON SKIN:** Rinse skin with water shower. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Immediately call a doctor or physician.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor or physician.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately call a doctor or physician.

**IN CASE OF FIRE:** Use media suitable for surrounding fire.

**PRECAUTIONARY STATEMENTS (STORAGE):**

Store in a well ventilated place, keep container tightly closed. Store locked up.

**PRECAUTIONARY STATEMENTS (DISPOSAL):**

Dispose of contents/container to an approved waste disposal plant in accordance with applicable local/regional/national and international regulations and product characteristics at time of disposal.

**OTHER HAZARDS:**

Repeated or prolonged exposure can cause skin dryness or cracking.

### 3. COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENT IDENTITY	CAS NUMBER	PERCENTAGE
2-BUTOXYETHANOL	111-76-2	PROPRIETARY
MONOETHANOLAMINE	141-43-5	PROPRIETARY

REMAINING INGREDIENTS ARE PROPRIETARY OR NOT REPORTABLE UNDER OSHA/SDS GUIDELINES. THE EXACT PERCENTAGES OF SOME INGREDIENTS HAVE BEEN WITHHELD AS (CBI) CONFIDENTIAL BUSINESS INFORMATION TRADE SECRET.

### 4. FIRST AID MEASURES

**INGESTION:** If swallowed, call a poison control center immediately. Wash out mouth with water. Do not induce vomiting. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lung. Never give anything by mouth to an unconscious person.

**SKIN CONTACT:** Remove contaminated clothing. Wash with soap and plenty of water for 15 minutes. Wash contaminated clothing before reuse. If irritation occurs get medical advice.

**INHALATION:** Move individual away from exposure and into fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician if you feel unwell.

**EYE CONTACT:** Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. Get medical attention/advice.

### **Most Important Symptoms and Effects, Acute and Delayed**

**INGESTION:** Symptoms may include diarrhea, gastric pain, and vomiting.

**SKIN CONTACT:** Symptoms may include redness, dryness and cracking of skin.

**INHALATION:** Symptoms may include irritation of respiratory tract and/or CNS symptoms such as dizziness, confusion, drowsiness or fatigue.

**EYE CONTACT:** Symptoms may include stinging, tearing, redness and blurred vision.

### **Indication of immediate medical attention and special treatment needed, if necessary.**

Treat Symptomatically.

## **5. FIRE FIGHTING MEASURES**

**Suitable extinguishing media:** Use methods suitable for surrounding fire  
**Unsuitable extinguishing media-** Not flammable.

**Specific hazards arising from the chemical:** No further relevant information available.

**Hazardous thermal decomposition products:** carbon monoxide and CO<sub>2</sub>

**Special protective actions for fire-fighters:** Keep product containers and surrounding areas cool with water spray. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters:** Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures:**

**For non-emergency personnel:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material.

Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders:** If specialized clothing is required to deal with the spillage, take note of information in section 8 for further information. See also information in non-emergency personnel above.

**Environmental precautions:** Avoid dispersal of spilled material with waterways, drains and sewers. See section 12 for additional ecological information.

### **Methods and materials for containment and cleaning up.**

**Small spill:** Stop leak if without risk. Move containers from the spill area. Absorb with an inert dry material such as diatomaceous earth or vermiculite and place in an appropriate waste disposal container. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

**Large spill:** Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, drains, water courses and confined areas. Wash spillages into an effluent treatment plant or absorb with an inert dry material such as diatomaceous earth or vermiculite and place in a appropriate waste disposal containers. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

## **7. HANDLING AND STORAGE**

### **Precautions for Safe Handling:**

**Safe Handling Advice:** Utilize appropriate personal protective equipment when handling product. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mists. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container and tightly closed when not in use. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection and face protection during use.

**Advice on general occupational hygiene:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional hygiene information.

### **Conditions for safe storage including any incompatibilities:**

Store in original container in a dry, cool and well ventilated area away from strong oxidizing agents (see section 10) and food and drink. Keep container tightly closed when not in use. Do not store in unlabeled containers. Keep away from children.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Control Parameters

#### Occupational Exposure Limits

<u>Ingredient Identity</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>NIOSH IDLH</u>
2-butoxyethanol 111-76-2	TWA 20ppm	TWA 50ppm TWA 240mg/m <sup>3</sup>	IDLH 700ppm
Monoethanolamine	TWA 3ppm 8 hours	TWA 3ppm 8 hours	

### Appropriate Engineering Controls

**Engineering Controls:** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants and maintain air concentrations below occupational exposure standards.

### Individual protection measures, such as personal protective equipment. (PPE)

**Eye/Face Protection:** Wear approved tightly sealed safety goggles

**Skin & Body Protection:** Wear chemical resistant, impervious gloves at all times when handling chemical products. Check during use that gloves are still retaining their impervious properties, as the time for breakthrough can change from different manufacturers and chemical mixtures cannot always be accurately measured. Appropriate footwear and suitable protective clothing should be worn for the degree and risk of exposure.

**Respiratory Protection:** If workplace exposure limits of product or any component is exceeded, utilize proper respiratory protection program guidelines (see OSHA 1910.134 and American National Standard ANSI Z88.2) Use a properly fitted NIOSH/MSHA air-purifying or air-fed respirator in compliance with the above mentioned standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: straw colored liquid

Odor: mild detergent

Odor threshold: not available

pH: 10.8-11.4

Melting Point/Freezing Point: Not Determined

Initial Boiling Point/Range: Not Determined

Flash Pt: Not Applicable

Evaporation Rate: Not Determined (butyl acetate=1)

Lower explosive limits: Not Applicable

Upper explosive limits: Not Applicable

Vapor Pressure: Not Determined

Vapor Density: Not Determined (air=1)

Relative Density: 1.1

Solubility in water: Soluble

Partition coefficient: not applicable

Auto ignition temp: not applicable

Decomposition Temp: not available

Viscosity: water thin

## 10. STABILITY AND REACTIVITY

Reactivity: Stable in normal ambient temperature and pressure

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: not under normal conditions of storage and use.

Conditions to Avoid: No further relevant information available.

Incompatible Materials: Oxidizing materials

Hazardous Decomposition Products: Carbon monoxide and Carbon Dioxide

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity: classified, oral category 4**

Monoethanolamine, 141-43-5    Oral    LD50    1089 mg/kg rat

2-butoxyethanol 111-76-2:    Oral    LD50    1414mg/kg guinea pig

**Skin corrosion irritation: classified, Category 1B, Causes severe skin burns and eye damage, Monoethanolamine, 141-43-5**

**Serious Eye damage: classified, Category 1, Causes serious eye damage, Monoethanolamine, 141-43-5**

**Sensitization: Not classified**

**Mutagenicity: Not classified**

**Carcinogenicity: Not classified**

**Reproductive Toxicity: Not Classified**

**Teratogenicity: Not Available**

**Specific target Organ Toxicity (single exposure):**

Name	category	route of exposure	target organs
2-butoxyethanol 111-76-2,	3,	inhalation	narcotic effects, drowsiness or dizziness
Monoethanolamine,	3,	inhalation	irritation of respiratory tract

**Specific target Organ Toxicity (repeated exposure)**

**Not Classified**

**Aspiration Hazard: No data**

**Information on the likely routes of exposure:****Ingestion:** Harmful if swallowed**Inhalation:** May cause respiratory irritation. May cause drowsiness or dizziness**Skin:** Causes severe skin burns and eye damage.**Eye:** Causes serious eye damage.**Symptoms related to the physical, chemical and toxicological characteristics****Ingestion:** See section iv, most important symptoms and effects, acute and delayed.**Inhalation:** See section iv, most important symptoms and effects, acute and delayed.**Skin:** See section iv, most important symptoms and effects, acute and delayed.**Eye:** See section iv, most important symptoms and effects, acute and delayed.**Delayed and immediate effects and also chronic effects from short and long term exposure.**

General: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis

Carcinogenicity: no known significant effects or critical hazards. Not classifiable.

**Numerical measures of Toxicity**

Not Available

**12. ECOLOGICAL INFORMATION****Toxicity:**

<u>Ingredient name</u>	<u>Result</u>	<u>Species</u>	<u>Exposure</u>
Monoethanolamine, EC50	65mg/l	daphnia	48 hrs

**Persistence and degradability:**

Monoethanolamine: &gt;90% readily biodegradable after 21 days

2-butoxyethanol: 90.4% readily biodegradable after 28 days.

**Bioaccumulation Potential:**

Monoethanolamine: low

2-butoxyethanol: BCF 3.16, This material is not expected to bioaccumulate

**Mobility in Soil:**

2-butoxyethanol: low adsorption to soil particulates predicted

**Other adverse Effects:**

No further information.

**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with applicable federal, state and local regulations.

**14. TRANSPORTATION INFORMATION**

DOT: NOT REGULATED

IATA: NOT REGULATED

IMDG: NOT REGULATED

**15. REGULATORY INFORMATION**

U.S. FEDERAL REGULATIONS: All ingredients are listed or exempted with TSCA.

SARA 302/304: no products were found.

SARA 311/312: acute health hazard: yes

Ingredient	%	FIRE HAZARD	PRESSURE RELEASE	REACTIVE	IMMEDIATE ACUTE	DELAYED CHRONIC
monoethanolamine	PROPRIETARY				YES	
2-butoxyethanol 111-76-2	PROPRIETARY	YES			YES	YES

SARA 313

2-butoxyethanol 111-76-2 PROPRIETARY, REPORTING THRESHOLD-1%

STATE REGULATIONS:

Ingredient	New York	New Jersey	Massachusetts	Pennsylvania
Monoethanolamine 141-43-5		yes	yes	yes
2-butoxyethanol 111-76-2	No	Yes	Yes	yes

California Prop 65: none known to meet requirements.



**16. OTHER INFORMATION**

HMIS RATING: HEALTH (2) FIRE (0) REACTIVITY (0)  
4=EXTREME, 3=HIGH, 2=MODERATE, 1=SLIGHT, 0=INSIGNIFICANT

**NOTICE TO READER:**

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