SAFETY DATA SHEET

AMERICO SOAK CLEAN BD-317
Product ID: MC533000
Revised: 10-01-2014
Replaces: 06-24-2014

1. IDENTIFICATION

Product Name: AMERICO SOAK CLEAN BD-317
Synonyms: MIXTURE
CAS Number: No data available.
Recommended Use: No data available.
Restrictions on Use: No data available.

American Chemical Products, Inc.
551 Kimberly Drive
Carol Stream, IL 60188
(630) 588-0830

EMERGENCY RESPONSE NUMBER:
CHEMTREC Emergency #: (800) 424-9300

2. HAZARD(S) IDENTIFICATION

Signal Word: Danger
GHS Classification:
- Substance or mixture corrosive to metals Category 1
- Skin Corrosion/Irritation Category 1B
- Serious Eye Damage/Eye Irritation Category 1

Hazard Statements:
May be corrosive to metals.
Causes severe skin burns and eye damage.

Precautionary Statements:
Prevention:
- Keep only in original container.
- Do not breathe dust, fume, gas, mist, vapors or spray.
- Wash thoroughly after handling.
- Wear gloves, eye and face protection and protective clothing.

Response:
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.
- Specific treatment (see First Aid on SDS or on this label).
- Wash contaminated clothing before reuse.
- Absorb spillage to prevent material damage.

Storage:
Store in a secure manner.
Store in corrosive resistant container with a resistant inner liner.

Disposal:
Dispose of in accordance with local, regional and international regulations.
Hazards Not Otherwise Classified: May react with various food sugars to form carbon monoxide.

Percentage of Components with Unknown Acute Toxicity:
Dermal: 12.4 %
Inhalation Vapor: 19.3 %
Inhalation Dust/Mist: 19.3 %

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>% by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Hydroxide</td>
<td>1310-58-3</td>
<td>&lt; 15 %</td>
</tr>
<tr>
<td>Sodium Tripolyphosphate</td>
<td>7758-29-4</td>
<td>&lt; 5 %</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl),alpha-(nonylphenyl)-omega-hydroxy-, Butanedic Acid, Octenyl-</td>
<td>9016-45-9</td>
<td>&lt; 5 %</td>
</tr>
<tr>
<td>Polyethylene Glycol Trimethylene Ether</td>
<td>28805-58-5</td>
<td>&lt; 5 %</td>
</tr>
<tr>
<td></td>
<td>60828-78-6</td>
<td>&lt; 5 %</td>
</tr>
</tbody>
</table>

Note: This product may contain one or both CAS#’s, 9016-45-9 and/or 127087-87-0.

4. FIRST-AID MEASURES

Eye Contact: If in eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Till head to avoid contaminating unaffected eye. Get immediate medical attention. Washing eyes within several seconds is essential to achieve maximum effectiveness. Remove contact lens if easy to do.

Skin Contact: If on skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Do not reuse clothing and shoes until cleaned. Wash with soap and water. If skin feels slippery, caustic may still be present in sufficient quantities to cause rash or burn. Continue washing skin until slick feeling is gone. Discard footwear which cannot be decontaminated. Discard contaminated leather articles such as shoes and belt.

Inhalation: If inhaled: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

Ingestion: If swallowed: If fully conscious, drink a quart of water. DO NOT induce vomiting. CALL A PHYSICIAN IMMEDIATELY. If unconscious or in convulsions, take immediately to a hospital or a physician. NEVER induce vomiting or give anything by mouth to an unconscious victim. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Note to Physicians: Probable mucosal damage may contraindicate the use of gastric lavage. The absence of visible signs or symptoms of burns does not reliably exclude the presence of actual tissue damage.

Most Important Symptoms/Effects:

Eye Contact: CORROSIVE-Causes severe irritation and burns. May cause: corneal damage, impaired vision, eye damage, permanent eye damage, blindness.

Skin Contact: CORROSIVE-Causes severe irritation and burns. Contact may cause: redness, swelling, dermatitis (inflammation of the skin), scab formation, ulceration, permanent skin damage. Effects from chronic skin exposure would be similar to those from single exposure and may include effects secondary to tissue destruction.

Skin Absorption:

Inhalation: CORROSIVE-Causes severe irritation and burns. May irritate or damage: nose, mouth, throat, lungs. Vapors or mists may damage: respiratory tract. May cause: shortness of breath, wheezing, coughing, sneezing, choking, chest pain, ulceration and perforation of the nasal septum, impaired lung function, pulmonary edema, pneumonitis, death.

Ingestion: CORROSIVE-Causes severe irritation and burns. May cause damage to the: mouth, throat, stomach, gastrointestinal tract. May cause: nausea, vomiting, diarrhea, vomiting (bloody), abdominal pain, bleeding, ulcerations, severe gastrointestinal damage, perforation of the intestinal tract, death. Blood loss through
damaged tissue can lead to low blood pressure and shock. Effects from chronic exposure would be similar to those from single exposure and may include effects secondary to tissue destruction. Aspiration into the lungs may cause chemical pneumonia and lung damage.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Not combustible. For fires in area use appropriate media. For example: Dry chemical. Water spray. Foam. Carbon dioxide.

Fire Fighting Methods: Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers. Move containers from fire area if possible without hazard. Run-off from fire control may cause pollution.

Fire and Explosion Hazards: Product may react with some metals (ex.: Aluminum, Zinc, Tin, etc.) to release flammable hydrogen gas. Product generates heat upon addition of water, with possible spattering. Fire or intense heat may cause violent rupture of packages.


6. ACCIDENTAL RELEASE MEASURES

Spill Clean-Up Procedures: CORROSIVE MATERIAL. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit. CAUTION: This product may react violently with acids and water. Contain spill, place into drums for proper disposal. Soak up residue with inert absorbent material. Place in non-leaking containers for immediate disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling. When mixing, slowly add to water to minimize heat generation and spattering. Do not add large quantities of water, excessive heat formation will cause boiling and spattering.

Storage: CORROSIVE MATERIAL. Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Do not store in aluminum container or use aluminum fittings or transfer lines. Highly corrosive to most metals with evolution of hydrogen gas. Never enter a pit or tank without following safety procedures-never alone, always with a lifeline and positive pressure supplied air. Contact of caustic potash cleaning solutions with food and beverage products (in enclosed vessels or spaces) can produce lethal concentrations of carbon monoxide gas. See Section 10 for incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA Exposure Guidelines:
Component

Limits

No components found.

ACGIH Exposure Guidelines:
Component

Limits

Potassium Hydroxide

2 mg/m3 Ceiling

Engineering Controls: General room ventilation and local exhaust are required. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating dust or mist. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly. NOTE: Where carbon monoxide may be generated, special ventilation may be required.
**9. PHYSICAL AND CHEMICAL PROPERTIES**

- **Physical State:** Liquid.
- **Color:** Clear. Light yellow.
- **Odor:** Mild odor.
- **Odor Threshold:** N.D.
- **pH:** > 13.00 (as is)
- **Freezing Point (deg. F):** N.D.
- **Melting Point (deg. F):** N.D.
- **Initial Boiling Point or Boiling Range:** N.D.
- **Flash Point:** N.A.
- **Flash Point Method:** N.A.
- **Evaporation Rate (nBuAc = 1):** N.D.
- **Flammability (solid, gas):** N.D.
- **Lower Explosion Limit:** N.A.
- **Upper Explosion Limit:** N.A.
- **Vapor Pressure (mm Hg):** N.D.
- **Vapor Density (air=1):** N.D.
- **Specific Gravity or Relative Density:** 1.13 @ 25 Deg. C
- **Solubility in Water:** Complete
- **Partition Coefficient (n-octanol/water):** N.D.
- **Autoignition Temperature:** No Data
- **Decomposition Temperature:** N.D.
- **Viscosity:** N.D.
- **% Volatile (wt%):** N.D.
- **VOC (wt%):** N.D.
- **VOC (lbs/gal):** N.D.
- **Fire Point:** N.D.

**10. STABILITY AND REACTIVITY**

- **Reactivity:** No data available.
- **Chemical Stability:** Stable under normal conditions.
- **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur under normal conditions. Produces Chloroacetylene with chlorinated alkenes and heat. Reactions with various food sugars may form carbon monoxide.
- **Conditions to Avoid:** Contact with water may cause violent reaction with evolution of heat. To dilute: Add product slowly to lukewarm water; not water to product. Contact with acid or incompatible materials may cause a
violent reaction with evolution of heat. Product may react with some metals (ex.: Aluminum, Zinc, Tin, etc.) to release flammable hydrogen gas. Corrosive to steels at elevated temperatures. Contact of caustic potash cleaning solutions with food and beverage products (in enclosed vessels or spaces) can produce lethal concentrations of carbon monoxide gas.


---

**11. TOXICOLOGICAL INFORMATION**

<table>
<thead>
<tr>
<th>Component</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Hydroxide</td>
<td>Rat: 214 mg/kg</td>
<td>No Data</td>
<td>No Data</td>
</tr>
<tr>
<td>Sodium Tripolyphosphate</td>
<td>Rat: 3100 mg/kg</td>
<td>Rabbit: &gt; 7940 mg/kg</td>
<td>No Data</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl),alpha-</td>
<td>No Data</td>
<td>Rabbit: 1780 μL/kg</td>
<td>No Data</td>
</tr>
<tr>
<td>(nonylphenyl)-omega-hydroxy-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyethylene Glycol Trimethylinonyl Ether</td>
<td>No Data</td>
<td>Rabbit: 4780 μL/kg</td>
<td>No Data</td>
</tr>
</tbody>
</table>

**Acute Toxicity Estimate (ATE):**

| Oral                                         | 2,378 mg/kg  |
| Dermal                                       | 82,047 mg/kg |

**Routes of Exposure:** Eyes. Ingestion. Inhalation. Skin. Absorption.

**Eye Contact:** CORROSIVE-Causes severe irritation and burns. May cause: corneal damage. impaired vision. eye damage. permanent eye damage. blindness.

**Skin Contact:** CORROSIVE-Causes severe irritation and burns. Contact may cause: redness. swelling. dermatitis (inflammation of the skin). scab formation. ulceration. permanent skin damage. Effects from chronic skin exposure would be similar to those from single exposure and may include effects secondary to tissue destruction.

**Skin Absorption:**

**Inhalation:** CORROSIVE-Causes severe irritation and burns. May irritate or damage: nose. mouth. throat. lungs. Vapors or mists may damage: respiratory tract. May cause: shortness of breath. wheezing. coughing. sneezing. choking. chest pain. ulceration and perforation of the nasal septum. impaired lung function. pulmonary edema. pneumonitis. death.

**Ingestion:** CORROSIVE-Causes severe irritation and burns. May cause damage to the: mouth. throat. stomach. gastrointestinal tract. May cause: nausea. vomiting. diarrhea. vomiting (bloody). abdominal pain. bleeding. ulcerations. severe gastrointestinal damage. perforation of the intestinal tract. death. Blood loss through damaged tissue can lead to low blood pressure and shock. Effects from chronic exposure would be similar to those from single exposure and may include effects secondary to tissue destruction. Aspiration into the lungs may cause chemical pneumonia and lung damage.

**Medical Conditions Aggravated by Exposure to Product:** Asthma. Respiratory system disorders. Eye disorders. Cardiovascular disorders.
AMERICO SOAK CLEAN BD-317
Product ID: MC533000

Other: This material will affect all tissues with which it comes into contact. The severity of the tissue damage is a function of concentration, the length of tissue contact time, and local tissue conditions. After exposure, there may be a time delay before irritation and other effects occur.

Cancer Information:
This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data available.
Chemical Fate Information: No data available.

13. DISPOSAL CONSIDERATIONS

Hazardous Waste Number: D002
Disposal Method: Dispose of in a permitted hazardous waste management facility following all local, state and federal regulations. Do NOT dump into any sewers, on the ground, or into any body of water. Since emptied containers retain product residue, follow label warnings even after container is emptied. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The information offered here is for the product as shipped. Use and/or alteration to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

14. TRANSPORT INFORMATION

DOT (Department of Transportation):
Identification Number: UN3266
Proper Shipping Name: Corrosive Liquid, Basic, Inorganic, N.O.S. (Contains Potassium Hydroxide)
Hazard Class: 8
Packing Group: II
Label Required: CORROSIVE
Reportable Quantity (RQ): 1000# (Potassium Hydroxide); 5000# (Sodium phosphate, tribasic)

15. REGULATORY INFORMATION

TSCA Inventory Status: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA Title III Section 311/312 Category Hazards:
<table>
<thead>
<tr>
<th>Immediate (Acute)</th>
<th>Delayed (Chronic)</th>
<th>Fire Hazard</th>
<th>Pressure Release</th>
<th>Reactive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Regulated Components:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>CERCLA RQ</th>
<th>SARA EHS</th>
<th>SARA 313</th>
<th>U.S. HAP</th>
<th>WI HAP</th>
<th>Prop 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Hydroxide</td>
<td>1310-58-3</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Sodium Tripolyphosphate</td>
<td>7758-29-4</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

*Prop 65 - May Contain the Following Trace Components:
This product may contain a detectable level of other chemical(s) subject to California’s Proposition 65.
Ethylene Oxide
1,4-Dioxane
Acetaldehyde
Formaldehyde

16. OTHER INFORMATION
AMERICO SOAK CLEAN BD-317
Product ID: MC533000

Hazard Rating System
Health: 3
Flammability: 0
Reactivity: 1
* = Chronic Health Hazard

NFPA Rating System
Health: 3
Flammability: 0
Reactivity: 1
Special Hazard: None

SDS Abbreviations
N.A. = Not Applicable
N.D. = Not Determined
HAP = Hazardous Air Pollutant
VOC = Volatile Organic Compound
C = Ceiling Limit
N.E./Not Estab. = Not Established

SDS Prepared by: NAO

Reason for Revision: New format. Changes made throughout the SDS.

Revised: 10-01-2014
Replaces: 06-24-2014

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which AMERICO CHEMICAL PRODUCTS, INC. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.