



THE POWER OF THREE<sup>3</sup>

# PHARMCO-AAPER

AND COMMERCIAL ALCOHOLS

Product Information (203) 740-3471

Emergency Assistance CHEMTREC 1-800-424-9300

Manufacturer: PHARMCO-AAPER.  
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Brookfield, Connecticut  
Phone (203) 740-3471  
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06804, USA  
Phone (502) 633-0650  
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Emergency Contact:  
CHEMTREC 1-800-424-9300

## SODIUM ALUMINATE 38% SOLUTION

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### PRODUCT IDENTIFICATION

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PRODUCT NAME: Sodium Aluminate 38% Solution CAS NO.: Unassigned  
COMMON NAMES/SYNONYMS: USALCO 38; Aluminum sodium oxide; Sodium Aluminate Solution;  
Sodium aluminum dioxide;  
FORMULA: Mixture DATE  
MOLECULAR WEIGHT: Not Applicable

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### EMERGENCY OVERVIEW

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NFPA RATING 49 HMIS HAZARD RATING  
HAZARD RATING SCALE  
HEALTH: 3 HEALTH: 3  
FIRE: 0 0 = MINIMAL 3 = SERIOUS FIRE: 0  
REACTIVITY: 1 1 = SLIGHT 4 = SEVERE REACTIVITY: 1  
SPECIAL: None 2 = MODERATE

Protective equipment can  
only be assigned on a case  
by case basis.

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### HAZARDOUS INGREDIENTS

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EXPOSURE LIMITS, PPM  
OSHA ACGIH OTHER  
COMPONENT(s) CAS No. % Wt. PEL TLV LIMIT HAZARD  
Sodium Aluminate 1302-42-7 38 None None None Corrosive  
Water 7732-18-5 62 None None None None

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### HEALTH HAZARD INFORMATION

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PRIMARY ROUTES OF EXPOSURE: Swallowed, Inhalation, skin or eye contact  
SIGNS AND SYMPTOMS OF EXPOSURE  
INHALATION: Vapors and mists are extremely corrosive to the nose, throat  
and mucous membranes. Bronchitis, pulmonary edema, and chemical  
pneumonitis may occur. Irritation, coughing, chest pain and difficulty in

breathing may occur with brief exposure while prolonged exposure may result in more severe irritation and tissue damage. Breathing high concentrations may result in death.

**EYE CONTACT:** Vapors, liquid and mists are extremely corrosive to the eyes. Brief contact of the vapors will be severely irritating. Brief contact of the liquid or mist will severely damage the eyes and prolonged contact may cause permanent eye injury which may be followed by blindness.

**SKIN CONTACT:** Vapors, mists and liquid are extremely corrosive to the skin. Vapors will severely irritate the skin and liquid and mists will severely burn the skin. Prolonged liquid contact will burn or destroy surrounding tissue and death may accompany burns which extend over large portions of the body.

**SWALLOWED:** Vapors, mists and liquid are extremely corrosive to the mouth and throat. Swallowing the liquid burns the tissues, causes severe abdominal pain, nausea, vomiting and collapse. Swallowing large quantities can cause death.

**CHRONIC EFFECTS OF EXPOSURE:** No specific information available.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None reported.

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#### **FIRST AID MEASURES**

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**IF INHALED:** Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

**IN CASE OF EYE CONTACT:** Immediately flush eyes with lots of running water for 15 minutes, lifting the upper and lower eyelids occasionally. Get immediate medical attention.

**IN CASE OF SKIN CONTACT:** Immediately flush skin with lots of water for 15 minutes. Remove contaminated clothing and shoes; wash before reuse. Get medical attention if irritation persists after washing.

**IF SWALLOWED:** Do not induce vomiting. If conscious, give lots of water or milk. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.

**NOTES TO PHYSICIAN:** None

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#### **FIRE AND EXPLOSION INFORMATION**

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**FLASH POINT, DEG. F:** None

**METHOD USED:** Not Applicable **FLAMMABILITY LIMIT (% VOL.):**

**UEL:** Not Applicable **LEL:** Not Applicable

**AUTOIGNITION TEMPERATURE, DEG. F:** Not Applicable

**EXTINGUISHING MEDIA:** This material is not combustible. Use extinguishing media appropriate for surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** Fire-fighter should wear self-contained breathing apparatus and full protective clothing. Use water spray to cool nearby containers and structures exposed to fire.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

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#### **HAZARDOUS REACTIVITY**

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**OTHER PRECAUTIONS:** Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

**Special Shipping Information:** Use mechanical pumps to transport material between delivery containers and storage tanks. Transporting material by means of compressed air can lead to reduced stability of solution (material can precipitate from solution).

**Handling Procedure and Equipment:** Product can react explosively with

acids, aldehydes, and many other organic chemicals. Always empty and clean containers of all residues before adding product.

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**PHYSICAL PROPERTIES**

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BOILING POINT, DEG F.: 239  
FREEZING POINT, DEG F.: 32  
SPECIFIC GRAVITY (WATER = 1): 1.45  
VAPOR PRESSURE, mm Hg: No Data Available pH: 12.0 (1.0%)  
VAPOR DENSITY (AIR=1): No Data Available WATER SOLUBILITY %: 100  
EVAPORATION RATE (BUTYL ACETATE = 1): No Data Available  
% VOLATILE (by VOLUME): No Data Available  
APPEARANCE AND ODOR: Clear amber liquid

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**TOXICITY DATA**

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ORAL: No Data Available  
DERMAL: No Data Available  
INHALATION: No Data Available  
CARCINOGENICITY: This material is not considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer or OSHA.  
OTHER DATA: None

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**ECOLOGICAL INFORMATION**

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No Data Available

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**OTHER REGULATORY INFORMATION**

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SECTION 313 (WITH CHEMICALS LISTED): None  
PROPOSITION 65 (WITH CHEMICALS LISTED): None  
MASSACHUSETTS: None  
PENNSYLVANIA: None  
CALIFORNIA SCAQMD: None  
TSCA: The ingredients of this product are on the TSCA inventory.  
**Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA):** No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA.

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The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.