



# SAFETY DATA SHEET

---

## SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

---

**Product ID :** 20741 (R), 20745C (R), 207455 (R)  
**Product Name :** ALUMINATE  
**Revision Date :** Feb 15, 2017  
**Version:** 1.0  
**Distributor's Name :** WELL-WORTH PRODUCTS, INC.  
**Address :** 180 DUTTON AVE - BUFFALO, NY 14211  
**Emergency Phone :** 1-800-424-9300  
**Information Phone :** (716) 597-0214  
**Fax :** (716) 597-0217  
**Product Use:** CLEANING COMPOUND, N.O.I.

**Supersedes Date :** Nov 14, 2016

**DATE PRINTED:** 4/24/19

---

## SECTION 2) HAZARDS IDENTIFICATION

---

### Classification:

Skin Corrosion - Category 1A  
Serious Eye Damage - Category 1  
Corrosive to metals Category 1  
Acute toxicity Oral Category 4

### Pictograms:



### Signal Word:

Danger

### Hazardous Statements - Physical:

H290 - May be corrosive to metals

### Hazardous Statements - Health:

H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage

### Precautionary Statements - General:

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read label before use.

### Precautionary Statements - Prevention:

P264 - Wash thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P234 - Keep only in original packaging.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

**Precautionary Statements - Response:**

- P390 - Absorb spillage to prevent material damage.
- P305 - IF IN EYES:
- P351 - Rinse cautiously with water for several minutes.
- P338 - Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 - Immediately call a POISON CENTER or doctor/physician.
- P301 - IF SWALLOWED:
- P330 - Rinse mouth.
- P331 - Do NOT induce vomiting.
- P310 - Immediately call a POISON CENTER or doctor.
- P303 - IF ON SKIN (or hair):
- P361 - Take off immediately all contaminated clothing.
- P353 - Rinse skin with water or shower.
- P363 - Wash contaminated clothing before reuse.
- P304 - IF INHALED:
- P340 - Remove person to fresh air and keep comfortable for breathing.

**Precautionary Statements - Storage:**

- P406 - Store in a corrosive resistant container with a resistant inner liner.
- P405 - Store locked up.

**Precautionary Statements - Disposal:**

- P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

---

**SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS**

---

| CAS          | Chemical Name       | % by Weight |
|--------------|---------------------|-------------|
| 0007732-18-5 | WATER               | 60% - 99%   |
| 0007664-93-9 | SULFURIC ACID       | 6% - 17%    |
| 0007664-38-2 | PHOSPHORIC ACID     | 2% - 5%     |
| 0001341-49-7 | AMMONIUM BIFLUORIDE | 1% - 4%     |

---

**SECTION 4) FIRST-AID MEASURES**

---

**Inhalation:**

Remove source of exposure or move person to fresh air and keep comfortable for breathing.  
 Get medical advice/attention if you feel unwell or are concerned.

**Eye Contact:**

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 30 minutes or until medical aid is available. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER/doctor.

**Skin Contact:**

Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse skin with lukewarm, gently flowing water/shower for a duration of 30 minutes or until medical aid is available. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before re-use or discard.

**Ingestion:**

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If swallowed, concentrate may be corrosive to gastrointestinal system. Dilute stomach by giving water or milk. If vomiting occurs naturally, lie on your side, in the recovery position.

---

**SECTION 5) FIRE-FIGHTING MEASURES**

---

**Suitable Extinguishing Media:**

Dry chemical, foam, carbon dioxide water spray or fog is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

**Unsuitable Extinguishing Media:**

No data available.

**Specific Hazards in Case of Fire:**

As with any acidic solution, a chemical reaction with some metals (i.e. copper and zinc) will generate hydrogen gas which is flammable/explosive in the presence of an ignition source. Therefore, extinguish all nearby ignition sources.

**Fire-Fighting Procedures:**

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

**Special Protective Actions:**

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

---

**SECTION 6) ACCIDENTAL RELEASE MEASURES**

---

**Emergency Procedure:**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

Prevent run-off to sewers, streams, or other bodies of water. Neutralize with mild base (i.e. sodium bicarbonate). Absorb material using sand, clay, earth, floor absorbent, or other absorbent material and place into polyethylene containers.

**Recommended Equipment:**

Wear face shield with eye protection, gloves, and apron.

**Personal Precautions:**

Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

**Environmental Precautions:**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

---

**SECTION 7) HANDLING AND STORAGE**

---

**General:**

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

**Ventilation Requirements:**

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

**Storage Room Requirements:**

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY. FOR USE BY TRAINED PERSONNEL ONLY. KEEP FROM FREEZING.

---

**SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION**

---

**Eye Protection:**

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

**Skin Protection:**

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

**Respiratory Protection:**

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.

**Appropriate Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

| Chemical Name       | OSHA TWA (ppm) | OSHA TWA (mg/m3) | OSHA STEL (ppm) | OSHA STEL (mg/m3) | OSHA-Tables-Z1,2,3 | OSHA Carcinogen | OSHA Skin designation | NIOSH TWA (ppm) | NIOSH TWA (mg/m3) | NIOSH STEL (ppm) | NIOSH STEL (mg/m3) | NIOSH Carcinogen |
|---------------------|----------------|------------------|-----------------|-------------------|--------------------|-----------------|-----------------------|-----------------|-------------------|------------------|--------------------|------------------|
| AMMONIUM BIFLUORIDE |                |                  |                 |                   |                    |                 |                       |                 |                   |                  |                    |                  |
| PHOSPHORIC ACID     |                | 1                |                 |                   | 1                  |                 |                       |                 | 1                 |                  | 3                  |                  |
| SULFURIC ACID       |                | 1                |                 |                   | 1                  |                 |                       |                 | 1                 |                  |                    |                  |

| Chemical Name       | ACGIH TWA (ppm) | ACGIH TWA (mg/m3) | ACGIH STEL (ppm) | ACGIH STEL (mg/m3) |
|---------------------|-----------------|-------------------|------------------|--------------------|
| AMMONIUM BIFLUORIDE |                 | 2.5               |                  |                    |
| PHOSPHORIC ACID     |                 | 1                 |                  | 3                  |
| SULFURIC ACID       |                 | 0.2 (T)           |                  |                    |

---

**SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

---

**Physical and Chemical Properties**

|                |               |
|----------------|---------------|
| Density        | 9.32 lb/gal   |
| Density VOC    | 0.1165 lb/gal |
| % VOC          | 1.25000%      |
| VOC Actual     | 0.1165 lb/gal |
| VOC Regulatory | 0.1165 lb/gal |

---

|                       |             |
|-----------------------|-------------|
| Appearance            | Pink Liquid |
| Odor Threshold        | N.A.        |
| Odor Description      | N.A.        |
| pH                    | 1           |
| Water Solubility      | Soluble     |
| Flammability          | N/A         |
| Flash Point Symbol    | N.A.        |
| Flash Point           | N.A.        |
| Viscosity             | N.A.        |
| Lower Explosion Level | N.A.        |
| Upper Explosion Level | N.A.        |
| Vapor Pressure        | N.A.        |
| Melting Point         | N.A.        |

|                                |        |
|--------------------------------|--------|
| Vapor Density                  | N.A.   |
| Freezing Point                 | N.A.   |
| Low Boiling Point              | 220 °F |
| High Boiling Point             | N.A.   |
| Decomposition Pt               | N.A.   |
| Auto Ignition Temp             | N.A.   |
| Evaporation Rate               | N.A.   |
| VOC Composite Partial Pressure | N.A.   |

---

## SECTION 10) STABILITY AND REACTIVITY

---

### Stability:

Stable.

### Conditions to Avoid:

Keep from freezing.

### Incompatible Materials:

Strong bases (alkalines), bleach (chlorine), reducing agents, and oxidizing agents.

### Hazardous Reactions/Polymerization:

Will not occur.

### Hazardous Decomposition Products:

Acidic vapors in a fire and some metals may liberate hydrogen gas.

---

## SECTION 11) TOXICOLOGICAL INFORMATION

---

### Skin Corrosion/Irritation:

Causes severe skin damage rapidly which may not be immediately painful.

Causes severe skin burns and eye damage

### Serious Eye Damage/Irritation:

Causes severe eye damage rapidly. May cause blindness.

### Carcinogenicity:

No data available

### Germ Cell Mutagenicity:

No data available

### Reproductive Toxicity:

No data available

### Respiratory/Skin Sensitization:

No data available

### Specific Target Organ Toxicity - Single Exposure:

No data available

### Specific Target Organ Toxicity - Repeated Exposure:

No data available

### Aspiration Hazard:

No data available

### Acute Toxicity:

Do not breathe vapors. Vapors are corrosive to the lungs.

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER

LC50 (female rat): 450 ppm (4-hour exposure) (2)  
LC50 (male rat): 486 ppm (4-hour exposure) (2)  
LD50 (oral, male weanling rat): 3000 mg/kg (1)  
LD50 (oral, 6-week old male rat): 2400 mg/kg (1)  
LD50 (oral, yearling male rat): 560 mg/kg (1)  
LD50 (oral, female rat): 530 mg/kg; 2500 mg/kg (1) LD50 (oral, male mouse): 1230 mg/kg (1)  
LD50 (oral, rabbit): 320 mg/kg (1)  
LD50 (dermal, male rabbit): 406 mg/kg (cited as 0.45 mL/kg) (1)

0007664-93-9 SULFURIC ACID

LC50 (rat): 510 mg/m3 (2 hour-exposure) (255 mg/m3 - equivalent 4-hour exposure) (1)  
LC50 (mouse): 320 mg/m3 (2-hour exposure) (160 mg/m3 - equivalent 4-hour exposure) (1)  
LD50 (oral, rat): 2140 mg/kg (2)

0007664-38-2 PHOSPHORIC ACID

LC50 (mouse): 25.5 mg/m3 (duration of exposure not specified) (4)  
LD50 (oral, rat): 3500 mg/kg (85% aqueous solution); 4200 mg/kg (80% aqueous solution)

**Potential Health Effects - Miscellaneous**

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER

Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

0007664-38-2 PHOSPHORIC ACID

Ingestion may cause any of the following: burns to mouth and stomach. Inhalation of vapor may cause any of the following: burns to respiratory system. Skin or eye contact may cause any of the following: burns.

---

**SECTION 12) ECOLOGICAL INFORMATION**

---

**Toxicity:**

No data available.

**Persistence and Degradability:**

No data available.

**Bio-Accumulative Potential:**

No data available.

**Mobility in Soil:**

No data available.

**Other Adverse Effects:**

No data available.

---

**SECTION 13) DISPOSAL CONSIDERATIONS**

---

**Water Disposal:**

Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

---

**SECTION 14) TRANSPORT INFORMATION**

---

**U.S. DOT Information:**

Compound, Cleaning, Liquid, 8, NA1760, PGII (Contains: Sulfuric acid and Phosphoric acid)

**IMDG Information:**

Compound, Cleaning, Liquid, 8, NA1760, PGII (Contains: Sulfuric acid and Phosphoric acid)

**IATA Information:**

Compound, Cleaning, Liquid, 8, NA1760, PGII (Contains: Sulfuric acid and Phosphoric acid)

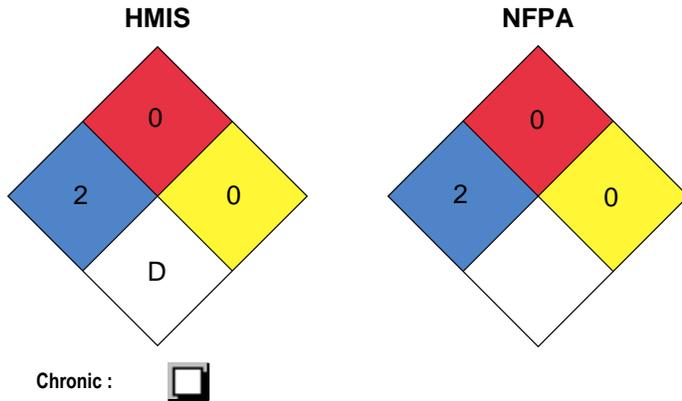
## SECTION 15) REGULATORY INFORMATION

| CAS          | Chemical Name       | % By Weight | Regulation List   |
|--------------|---------------------|-------------|---|
| 0001341-49-7 | AMMONIUM BIFLUORIDE | 1% - 4%     | CERCLA,SARA312,SARA313,TSCA,ACGIH   |
| 0007664-38-2 | PHOSPHORIC ACID     | 2% - 5%     | CERCLA,SARA312,TSCA,ACGIH,OSHA  |
| 0007664-93-9 | SULFURIC ACID       | 6% - 17%    | CERCLA,SARA312,SARA313,TSCA,ACGIH,CA_Prop65 - California Proposition 65,CA_Prop65_Type_Toxicity_Cancer - CA Proposition65_Type_Toxicity_Cancer,OSHA |
| 0007732-18-5 | WATER               | 60% - 99%   | TSCA  |

## SECTION 16) OTHER INFORMATION

### Glossary:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.



## DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.