

# Material Safety Data Sheet

## 24 Hour Emergency Phone Numbers:

Medical: 1-800-327-3874

1-513-558-5111

## Transportation:

1-800-535-5053

1-352-323-3500

•NOTE: National Response Center emergency numbers to be used  
•only in the event of chemical emergencies involving a spill, leak,  
•fire, exposure or accident involving chemicals.

**IMPORTANT:** Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

## Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.  
Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.  
Los Datos de Seguridad del Producto pueden obtenerse en Espanol si lo requiere.

**Product Name:** ACE Hydraulic Cement

**Revision Date:** 03/06/2006

**Supersedes:** N. A.

**Product Use/Class:** DM Water Putty Wood Repair

**MSDS Number:** 00079705251

**Manufactured for:** Ace Hardware Corporation

2200 Kensington Court

Oak Brook IL, 60521

630-990-6460 (non-emergency matters)

## Section 2 - Composition / Information On Ingredients

| Chemical Name           | CASRN      | WT%   | ACGIH TWA | ACGIH STEL | ACGIH CEIL | OSHA TWA                       | OSHA STEL | OSHA CEIL | Skin |
|-------------------------|------------|-------|-----------|------------|------------|--------------------------------|-----------|-----------|------|
| Portland cement         | 65997-15-1 | 30-60 | 10 MGM3   | N.E.       | N.E.       | 5 MGM3                         | N.E.      | N.E.      | No   |
| Silica, crystalline     | 14808-60-7 | 15-40 | 0.05 MGM3 | N.E.       | N.E.       | 10÷(%SiO <sub>2</sub> +2) MGM3 | N.E.      | N.E.      | No   |
| Fused calcium aluminate | 65997-16-2 | 10-30 | N.E.      | N.E.       | N.E.       | N.E.                           | N.E.      | N.E.      | No   |
| Calcium sulfate         | 7778-18-9  | 1-5   | 10 MGM3   | N.E.       | N.E.       | 5 MGM3                         | N.E.      | N.E.      | No   |
| Hydrated lime           | 39445-23-3 | 1-5   | N.E.      | N.E.       | N.E.       | N.E.                           | N.E.      | N.E.      | No   |

### Exposure Notes:

14808-60-7 The 2002 ACGIH Threshold Limit Values for Chemical Substances and Physical Agents lists the median Respirable Particulate Mass (RPM) point for crystalline silica at 4.0 microns in terms of the particle's aerodynamic diameter.

The TLVs for crystalline silica represent the respirable fraction.

OSHA PEL TWA for Quartz is calculated using the following formula: 10 mg/m<sup>3</sup>/(% SiO<sub>2</sub> + 2). Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size selector with the following characteristics.

| ----- -----                                              |                          |
|----------------------------------------------------------|--------------------------|
| -                                                        |                          |
| ..... Aerodynamic diameter ( unit density sphere ) ..... | Percent passing selector |
| 2 .....                                                  | .....90.....             |
| 2.5 .....                                                | .....75.....             |
| 3.5 .....                                                | .....50.....             |
| 5.0 .....                                                | .....25.....             |
| 10 .....                                                 | .....0.....              |

**Important:** Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

**Note:** An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices

## Section 3 - Hazards Identification

**Emergency Overview:** A gray powder with a little or none odor. **WARNING: INJURIOUS TO EYES. CAUSES SKIN IRRITATION.** Avoid skin and eye contact. Removal of this product after use or by dry sanding will generate dust and exposure to this dust may be irritating to the eyes, ears, nose and mouth. If dry-sanded, exposure to dust may result in build-up of material in eyes, ears, nose, and mouth. Contains Portland Cement. When mixed with water, this material hardens and then slowly becomes hot. **DO NOT** attempt to make a cast enclosing any part of the body using this material. Failure to follow these instructions may cause severe burns that may require surgical removal of affected tissues.

Refer to other MSDS sections for other detailed information.

**Effects Of Overexposure - Eye Contact:** Causes eye irritation.

**Effects Of Overexposure - Skin Contact:** Causes skin irritation. May cause dry skin. May develop enough heat to cause burns if a large mass such as a cast of hand or arm, is kept in contact with skin while hardening. Wet cement can dry skin and cause alkali burns.

**Effects Of Overexposure - Inhalation:** Prolonged, repeated, or high exposures may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

**Effects Of Overexposure - Ingestion:** Ingestion may result in obstruction when material hardens. Irritating to mouth, throat and stomach.

### Effects Of Overexposure - Chronic Hazards:

The International Agency for Research on Cancer (IARC) has determined that crystalline silica in the form of quartz or cristobalite that is inhaled from occupational sources is carcinogenic to humans (Group 1- carcinogenic to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (published in June 1997) in conjunction with the use of these materials. The National Toxicology Program (NTP) classifies respirable crystalline silica as "known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (Group A2).

Breathing dust containing respirable crystalline silica may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects: Excessive inhalation of respirable dust can cause pneumoconiosis, a respiratory disease, which can result in delayed, progressive, disabling and sometimes fatal lung injury. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Smoking exacerbates this disease. Individuals with pneumoconiosis are predisposed to develop tuberculosis. There is some evidence that

breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease.

**Primary Route(s) Of Entry:** Skin Contact, Inhalation, Eye Contact

**Medical Conditions which May be Aggravated by Exposure:** If dry sanded, asthma and asthma-like conditions may worsen from prolonged or repeated exposure to dust.

## Section 4 - First Aid Measures

**First Aid - Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

**First Aid - Skin Contact:** If skin irritation persists, call a physician. Wash thoroughly with soap and water.

**First Aid - Inhalation:** First Aid: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

**First Aid - Ingestion:** If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

**Note to Physician:** None.

**COMMENTS:** Call Medical Emergency at 1-800-327-3874 if any irritation or complication arises from any of the above routes of entry.

## Section 5 - Fire Fighting Measures

**Flash Point, F:** greater than 200  
**Method:** (Seta Closed Cup)

**Lower Explosive Limit, %:** Not Established  
**Upper Explosive Limit, %:** Not Established

**Extinguishing Media:** Carbon Dioxide, Dry Chemical, Foam

**Unusual Fire And Explosion Hazards:** None known. Material will not burn.

**Special Firefighting Procedures:** None known.

## Section 6 - Accidental Release Measures

**Steps To Be Taken If Material Is Released Or Spilled:** Wear proper protective equipment as specified in Section 8. Sweep up excess powder. Place remaining powder into containers.

## Section 7 - Handling And Storage

**Handling:** KEEP OUT OF REACH OF CHILDREN! Use in well ventilated area. Wash thoroughly after handling. Do not breathe dust. Do not get in eyes. Avoid prolonged or repeated contact with skin. Removal of this product after use will result in the generation of Dust. If dry-sanded, exposure to dust may result in the build-up of material in eyes, ears, nose, and mouth which may cause irritation. Prevent build up of dust by providing fresh air such that dust cannot be detected during use of this product or while sanding this product. While dry sanding, use of a NIOSH-approved dust mask is recommended.

**Storage:** Store away from caustics and oxidizers. Store containers away from excessive heat and freezing. Keep

containers tightly closed. Do not store at temperatures above 120 degrees F.

## Section 8 - Exposure Controls / Personal Protection

**Precautionary Measures:** Please refer to other sections and subsections of this MSDS.

**Engineering Controls:** If dry-sanding, provide sufficient mechanical ventilation to maintain exposure below PEL and TLV. While mixing, provide sufficient mechanical ventilation (local or general exhaust) to maintain exposure below PEL and TLV. Wet sanding is recommended to avoid generation of dust.

**Respiratory Protection:**

National Institute for Occupational Safety and Health (NIOSH) has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air (0.05 mg/m<sup>3</sup>) as determined by a full shift sample up to 10-hour work shift.

**Skin Protection:** Wear gloves with repeated or prolonged use.

**Eye Protection:** Goggles or safety glasses with side shields.

**Other protective equipment:** Provide eyewash. Provide coveralls if body contact may occur.

**Hygienic Practices:** Remove and wash contaminated clothing before re-use.

## Section 9 - Physical And Chemical Properties

|                                      |                 |                          |                 |
|--------------------------------------|-----------------|--------------------------|-----------------|
| <b>Boiling Range:</b>                | Not Established | <b>Vapor Density:</b>    | Not Established |
| <b>Odor:</b>                         | Little or None  | <b>Odor Threshold:</b>   | Not Established |
| <b>Appearance:</b>                   | Gray            | <b>Evaporation Rate:</b> | Not Established |
| <b>Solubility in H<sub>2</sub>O:</b> | Not Established | <b>Specific Gravity:</b> | 2.975           |
| <b>Freeze Point:</b>                 | Not Established | <b>pH:</b>               | Not Established |
| <b>Vapor Pressure:</b>               | Not Established | <b>Viscosity:</b>        | Not Established |
| <b>Physical State:</b>               | Powder          |                          |                 |

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

## Section 10 - Stability And Reactivity

**Conditions To Avoid:** Excessive heat and freezing.

**Incompatibility:** Incompatible with strong bases and oxidizing agents.

**Hazardous Decomposition Products:** Normal decomposition products, i.e., CO<sub>x</sub>, NO<sub>x</sub>.

**Hazardous Polymerization:** Hazardous polymerization will not occur under normal conditions.

**Stability:** Stable under recommended storage conditions.

## Section 11 - Toxicological Information

**Product LD<sub>50</sub>:** Not Established

**Product LC<sub>50</sub>:** Not Established

None

**Carcinogenicity:**

| CAS No.    | Chemical Name       | ACGIH                       | OSHA        | IARC              | NTP               | WT%   |
|------------|---------------------|-----------------------------|-------------|-------------------|-------------------|-------|
| 14808-60-7 | Silica, crystalline | Suspected human carcinogen. | Not Listed. | Human carcinogen. | Known carcinogen. | 15-40 |

**Significant Data with Possible Relevance to Humans:** None

## Section 12 - Ecological Information

**Ecological Information:** Ecological injuries are not known or expected under normal use.

## Section 13 - Disposal Information

**Disposal Information:** Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.**EPA Waste Code if Discarded (40 CFR Section 261):** none

## Section 14 - Transportation Information

|                                  |               |                          |      |
|----------------------------------|---------------|--------------------------|------|
| <b>DOT Proper Shipping Name:</b> | Not Regulated | <b>Packing Group:</b>    | N.A. |
| <b>DOT Technical Name:</b>       | N.A.          | <b>Hazard Subclass:</b>  | N.A. |
| <b>DOT Hazard Class:</b>         | N.A.          | <b>DOT UN/NA Number:</b> | N.A. |

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

## Section 15 - Regulatory Information

**CERCLA - SARA Hazard Category:**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

**SARA Section 313:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

None

**Toxic Substances Control Act:**

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

## U.S. State Regulations

### New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

None

### Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

None

### California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

| Chemical Name       | CAS Number | Definition    | Date Listed             | WT%   |
|---------------------|------------|---------------|-------------------------|-------|
| Silica, crystalline | 14808-60-7 | Carcinogenic. | Listed: October 1, 1988 | 15-40 |

Warning: The following ingredients present in the product are known to the State of California to cause birth defects or other reproductive harm:

None

## Section 16 - Other Information

### HMIS Ratings:

Health: 1                      Flammability: 0                      Reactivity: 0                      Personal Protection: X

**VOLATILE ORGANIC COMPOUNDS**, GR/LTR: 0.0      LB/GAL: 0.0      WT%: 0.0

**REASON FOR REVISION:** Periodic Update

### Legend:

N.A. – Not Applicable

ACGIH – American Conference of Governmental Industrial Hygienists

N.E. – Not Established

SARA – Superfund Amendments and Reauthorization Act of 1986

N.D. – Not Determined

NJRTK – New Jersey Right-to-Know Law

VOC – Volatile Organic Compound

OSHA – Occupational Safety and Health Administration

PEL – Permissible Exposure Limit

HMIS – Hazardous Materials Identification System

TLV – Threshold Limit Value

NTP – National Toxicology Program

STEL – Short Term Exposure Limit

CEIL – Ceiling Exposure Limit

LD50 – Lethal Dose 50

LC50 – Lethal Concentration 50

F – Degree Fahrenheit

C – Degree Celsius

MSDS – Material Safety Data Sheet

CASRN – The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. **NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS.** Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

&lt;End of MSDS&gt;