DEPENDABLE CHEMICAL CO., INC.

Material Safety Data Sheet

MSDS DATE 4/17/97 Rev. 10/6/2003

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **Deep Rock**

PRODUCT USE: Pourable fill material used for anchoring metal posts and bolts.

MANUFACTURED BY: Dependable Chemical Co., Inc.
PO Box 16334
Rocky River, OH 44116
440-333-1123 or 800-227-3434

24 Hour Emergency:
CHEMTREC: 800-424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT (NOTE 1)	CAS NUMBER	AMOUNT (% w/w)	NOTE
Perlite	N.A.	<20	2
Portland cement	65997-15-1	<50	2
Calcium Sulfate	7778-18-9	<100	2
Calcium Carbonate	1317-65-3	<100	2
Starch	9005-25-8	<15	2

NFPA RATING: HEALTH 1 FIRE 0 REACTIVITY 0

NOTES:

1. The OSHA Permissible Exposure Limit (PEL) for silica uses an equation to reduce the 8-hour average respirable dust PEL according to the percentage of quartz silica in the airborne dust. The equation is:

$$\textbf{Respirable dust (containing >1\% silica) PEL} = \frac{10}{(2 + \%\ \text{silica})}$$

The Threshold Limit Value (TLV) published by the American Conference of Governmental Industrial Hygienists (ACGIH) is 0.1 milligrams per cubic meter (MG/M^3) of silica quartz as an 8-hour, time-weighted average exposure.

The dust is considered to be particulate matter not otherwise classified (PNOC). The OSHA PEL for total dust PNOC is 15 mg/m^3 as an 8-hour average. The corresponding ACGIH TLV is 10 mg/m^3 . The OSHA PEL for respirable dust PNOC is 5 mg/m^3 as an 8-hour average. The corresponding ACHIG TLV is 3 mg/m^3 .

3. PHYSICAL DATA

DESCRIPTION: Medium gray powder

PHYSICAL STATE: Solid

pH: Slightly alkaline

Solubility in water: < 1% at 22°C

SPECIFIC GRAVITY: 2.7

VAPOR PRESSURE: Not applicable

4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not applicable

FLAMMABLE LIMITS: Not combustible

HAZARDOUS COMBUSTION PRODUCTS: None

5. REACTIVITY DATA

CHEMICAL STABILITY: Stable HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY: Avoid contact with hydrofluoric acid, strong oxidizing agents, and concentrated acids.

HAZARDOUS DECOMPOSITION PRODUCTS: None

6. HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Inhalation, skin contact, and eye contact

INHALATION: Repeated and prolonged excessive exposure to respirable crystalline silica dust can cause silicosis, a disabling lung disease that causes fibrosis (scarring of the lung tissue) and may take years to develop. Silicosis can make a person more susceptible to other lung ailments.

SKIN CONTACT: Handling may cause dry skin. Skin contact with a large mass of wet Deep Rock during hardening can develop sufficient heat to cause severe burns, possibly resulting in a permanent injury.

EYE CONTACT: Dust particles can cause irritation of the eye surface due to mechanical action.

CARCINOGENICITY: Crystalline silica is on the carcinogen lists of the Int'l Agency for Research on Cancer (IARC class 2A) and the National Toxicology Program (NTP). OSHA does not regulate any ingredients as carcinogens.

INGESTION: In the unlikely event of massive exposure by ingestion, the product may cause obstruction. See a physician.

7. FIRST AID

SKIN: Wash affected areas with mild soap and water. If irritation persists or excessive redness occurs, apply sterile dressings and get medical attention.

EYES: Flush eyes with water for at least 15 minutes. If irritation persists, transport victim to medical attention.

INHALATION: For gross inhalation of dust, remove to fresh air. If severe coughing or breathing difficulty persists, get medical attention.

8. HANDLING PRECAUTIONS AND CONTROLS (Keep out of reach of children)

DUST CONTAINMENT: Avoid excessive dust generation such as blowing off surfaces with compressed air or forceful dry sweeping. If needed, use water sprays and other dust suppression methods. Use local exhaust ventilation at the source of dust emissions when dumping or spilling large quantities of the dry product and when cutting, grinding or breaking the hardened product. Use air cleaning devices as components of the ventilation system to avoid contaminating other areas with dust. Always work with the product in areas that have sufficient room ventilation.

RESPIRATORY PROTECTION: When excessive dust generation occurs in a work area, wear respirators approved for crystalline silica dust protection at the relevant exposure concentration. The employer must have a respirator program in place that satisfies the OSHA requirements for a minimally acceptable program (e.g., 29 CFR 1910.134).

SKIN AND EYE CONTACT: Avoid contact with large amounts of product. Use gloves, goggles and other protective apparel when excessive contact cannot be avoided. Wash hands and forearms with water and mild soap after use.

9. ENVIRONMENTAL AND DISPOSAL INFORMATION

DISPOSAL CONSIDERATIONS: Avoid disposing of the product into drains since the wet slurry can harden and clog the pipes. Place the dry or wet product in waste containers.

DISPOSAL METHOD: The preferred method is disposal in a landfill. The disposal method should comply with applicable federal, state and local laws and regulations regarding management use, handling, treatment, storage, disposal, and transportation of used chemicals.

9. REGULATORY INFORMATION

NOTICE: Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities comply with federal, state, or local laws. The following specific information is not meant to be a comprehensive list of applicable regulations.

WORKPLACE CLASSIFICATION: The product is considered hazardous under the OSHA Hazard Communication Standards 29 CFR 1910.1200.

SARA TITLE 3: The product does not contain chemicals listed in the Superfund Amendments and Reauthorization Act, Section 313 at or above the de minimis concentrations.

TSCA: All components are included in the EPA Toxic Substances Control Act Chemical Substance Inventory.

RCRA: The product is not considered hazardous waste by the EPA Resource Conservation and Recovery Act 40 CFR 261. Please be advised that chemical additions to, processing of, or otherwise altering this material may make this waste information inaccurate or inappropriate. State and local waste disposal requirements may be more restrictive or different from the federal regulations.

IMPORTANT: The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage, and handling of the product in compliance with applicable federal, state and local laws and regulations. DEPENDABLE CHEMICAL COMPANY, INC. makes no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. DEPENDABLE CHEMICAL COMPANY, INC. will not be liable for claims relating to any party's use or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate, incomplete or otherwise misleading.