MATERIAL SAFETY DATA SHEET

United States Gypsum Company
125 S. Franklin Street
Chicago, IL 60606-4678

Emergency No.: (312) 606-4542
Date Issued: August 7, 1992

SECTION I

PRODUCT GROUP: (HYDROCALS*: Primary Groups)

Dental and Orthopedic HYDROCALS:
- HYDROCAL* White
- HYDROCAL* X-21
- HYDROCAL* A-base
- HYDROCAL* J & J
- HYDROCAL* B-base
- HYDROCAL* SN
- HYDROCAL* C-base
- HYDROCAL* 105
- HYDROCAL* AC
- HYDROCAL* V & V
- HYDROCAL* 106
- HYDROCAL* C-base Yellow
- HYDROCAL* REV
- HYDROCAL* LP 105
- HYDROCAL* Marvel Special

HYDROCAL* GYPSUM CEMENT WFS-25

LOW Expansion HYDROCAL*:
- ULTRACAL* 30
- BAKAL* Model Plaster
- ULTRACAL* 60
- MERCURY* Model Plaster
- ULTRACAL* 30, Red
- ULTRACAL* 60, Red

Multipurpose HYDROCAL* Products:
- HYDROCAL* Medium Hi Expansion
- HYDROCAL* Boeing Special
- HYDROCAL* Gray
- Pattern Shop HYDROCAL*
- HYDROCAL* Brown General Purpose Gypsum Cement
- Building Grade HYDROCAL*
- HYDROCAL* LR Gypsum Cement
- HYDROCAL* FGR-95 Gypsum Cement
- HYDROCAL* FGR-95 LE Gypsum Cement
- HYDROCAL* F.G.R. L.S.S.
- HYDROCAL* CG Gypsum Cement
- HYDROCAL* MG Gypsum Cement
- Statuary HYDROCAL*
- HYDROCAL* CT
- Statuary HYDROCAL* S.C.
- HYDROCAL* Stm
- Ocean Wash HYDROCAL* 2000
- MD-89 Tooling
- TUF CAL Gypsum Cement

GARONITE* Products:
- GARONITE* SC-104

COECAL* Products:
- COECAL* 105
- COECAL* 106
- COE* SUPERCAL

* - Trademark of United States Gypsum Company or an affiliated company

CHEMICAL FAMILY: CaSO4 . 1/2H2O
SECTION II
INGREDIENTS

MATERIALS | % | PEL mg/m³ | TLV mg/m³ | CAS No.
--- | --- | --- | --- | ---
Plaster of Paris | 90-100 | 10 | 15/5(R) | 26499-65-0
Portland Cement | 0-8 | 10 | 15/5(R) | 65997-15-1
Ammonium Naphthalene Sulfonate | 0-4 | (NE) | (NE) | 9069-80-1
Polyvinyl Alcohol | 0-4 | (NE) | (NE) | 9002-89-5
Starch | 0-2 | 10 | 15/5(R) | 9005-25-8
Iron Oxide Colorant | 0-2 | (NE) | (NE) | 1309-37-1
Potassium Sulfate | 0-1 | (NE) | (NE) | 7778-80-5
Hydrolyzed Protein | 0-1 | (NE) | (NE) | 65997-21-9
Aluminum Foil-Scrim-Poly | 0-1 | (NE) | (NE) | 7429-90-5
Sodium Pot. Tartrate | 0-0.8 | (NE) | (NE) | 304-59-6
Pot. Naphthalene Sulfonate | 0-0.6 | (NE) | (NE) | 9069-79-8
Petroleum Distillate | 0-0.6 | 5(M) | .5(M) | 64741-89-5
Melamine Resin | 0-0.5 | (NE) | (NE) | 68002-20-0
Sodium Citrate | 0-0.5 | (NE) | (NE) | 77-92-9
Ammonium Chloride | 0-0.4 | 10(F) | (NE) | 12125-02-9
Lime (Hydrated) | 0-0.4 | 5(T) | 5(T) | 39445-23-3
Aluminum Sulfate | 0-0.3 | 2(T) | 2(T) | 10043-01-3
Succinimide Anhydride | 0-1 | (NE) | (NE) | 108-30-5
Tributyl Phosphate | 0-0.1 | 2.5(T) | 2.5(T) | 126-73-8
Hydroxypropylmethyl-Cellulose | 0-(Tr) | (NE) | (NE) | 9004-65-3

(T) Total | (R) Respirable | (NE) Not Established | (Tr) Trace | (M) Mist
(F) Fume

SECTION III
PHYSICAL DATA

MELTING POINT: 1450 ºC - decomposes
SPECIFIC GRAVITY: 2.7-3.0
APPEARANCE AND ODOR: White powder, low odor.
SOLUBILITY IN WATER: 0.2%
HARDENING TIME: Varies. Check usage and/or product specification data for each product.

SECTION IV
FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): None
EXTINGUISHING MEDIA: Not combustible
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE AND EXPLOSION HAZARDS: None
SECTION V
HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:
ACUTE:
EYES: Particles and Portland Cement may cause eye irritation.
SKIN: 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. Failure to follow these instructions may cause severe burns that may require surgical removal of affected tissue. May dry skin.
INHALATION: Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions: coughing, sneezing and nasal irritation from dust.
INGESTION: See Emergency and First Aid for Ingestion below.
CHRONIC: None known.

EMERGENCY AND FIRST AID PROCEDURES:
EYES: Flush eyes with water for 15 minutes. Call PHYSICIAN if irritation continues.
SKIN: Wash contaminated area with water.
INHALATION: Remove to fresh air.
INGESTION: Plaster hardens when wetted and, if ingested, may result in obstruction. See Physician.

TARGET ORGANS: Lungs.
MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Pre-existing upper respiratory and lung disease such as, but not limited to, bronchitis, emphysema and asthma.

PRIMARY ROUTE OF ENTRY: Inhalation.

CARCINOGENICITY OF INGREDIENTS:

<table>
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<tr>
<th>MATERIAL</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
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<td>Not listed</td>
<td>Not Listed</td>
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SECTION VI
REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY: Acids
HAZARDOUS DECOMPOSITION PRODUCTS: Above 1450°C - CaO and SO2
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VII
SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep or vacuum material from spillage into a waste container for disposal. Avoid dusting conditions. If washed down, may plug drains. If already mixed with water, scrape up and wash down residue.

WASTE DISPOSAL METHOD: This material can be disposed of as inert solid in a landfill or by other procedures which are accepted under federal, state and local regulations.
SECTION VIII
SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Provide general ventilation and local exhaust ventilation to meet TLV requirements. When dusty condition exists, wear an approved dust mask to guard against nuisance particles.

PROTECTIVE EQUIPMENT: Gloves or protective clothing are usually, but not necessarily, desirable in specific work situations. Eye protection (goggles) may be needed to avoid particulate irritation of the eye.

SECTION IX
SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Be sure proper ventilation and respiratory and eye protection are used in dusty conditions.