

**SECTION 1 : Identification of the substance/preparation and of the company / undertaking**

**(a) GHS product identifier**

Hydrocal 105

**(e) Emergency phone number**

CHEMTREC 1-800-424-9300  
CCN9105

**(b) Other means of identification**

NA

**(c) Recommended use of the chemical and restrictions on use**

For professional dental applications.

**(d) Supplier's details**

Garreco, LLC.  
430 Hiram Road  
Heber Springs, AR 72543  
Phone: 1-800-334-1443

**SECTION 2: Hazards identification**

**(a) GHS classification of the substance/mixture**

**Substance Name**

1. Plaster of Paris (Calcium Sulfate Hemihydrate CAS 10034-76-1)

**(b) Label Elements**

**Hazard statements**

None

**Precautionary statements**

None

**Hazard Symbol(s)**

NONE

**Signal Word(s)**

NONE

**(c) Other hazards which do not result in classification**

**IF ON SKIN:** Material hardens and becomes hot when mixed with water. SHOULD NOT be used to make a cast enclosing part of the body. Failure to follow these instructions can cause severe burns that may require surgical removal of affected tissue or amputation of limb. Contact with skin may cause irritation and abrasions.

**IF INHALED:** May irritate the nose, throat, lungs, and upper respiratory tract. Persons subject to large amounts will be forced to leave area because of nuisance conditions. Labored breathing may occur after excessive inhalation.

**IF SWALLOWED:** May cause gastric disturbances. Ingestion could lead to mechanical obstruction of the gut, especially the pyloric region.

**IF IN EYES:** Contact can cause mechanical irritation of eyes.

IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans; NTP National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS): 1- Known to be carcinogen

ACGIH American Conference of Governmental Industrial Hygienists: A2 Suspected human carcinogen

CAL-65: Listed as Chemical known to the State of California to Cause Cancer

**SECTION 3: Composition/information on ingredients**

**(a) Chemical(s) Identity:**

**(b) Common Name:**

1. Plaster of Paris (Calcium Sulfate Hemihydrate)

**(c) CAS No.**

10034-76-1

**Mixture:**

**Concentration (Percentage)**

>95%

**SECTION 4: First-aid measures**

**(a) Description of first aid measures:**

**IF ON SKIN (or hair):** Rinse with water then wash skin thoroughly with mild soap and water. May dry skin.

**IF INHALED:** Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under supervision. Get medical attention if symptoms persist.

**IF SWALLOWED:** If gastric disturbance occurs, consult physician.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. May cause mechanical irritation of eyes. If burning, redness, itching, pain persist or develop, consult a physician.

**(b) Most important symptoms and effects, both acute and delayed:**

**IF INHALED:** Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under supervision.

**IN EYES:** Burning, redness, itching, pain or other symptoms.

**(c) Indication of any immediate medical attention and special treatment needed:**

ND

**SECTION 5: Fire-fighting measures**

**(a) Suitable extinguishing media:**

Water or use extinguishing media appropriate for surrounding fire.

**(b) Special hazards arising from the chemical or mixture:**

None known

**(c) Special protective equipment and precautions for fire-fighters:**

Wear appropriate personal protective equipment.

**SECTION 6: Accidental release measures**

**(a) Personal precautions, protective equipment and emergency procedures:**

No special precautions. Wear appropriate personal protective equipment.

**(b) Environmental precautions:**

Toxicity studies performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect.

**(c) Methods and material for containment and cleaning up:**

Remove by dry-sweeping or vacuum. Avoid creating excessive dust. Do not wash down drains; it could plug drains.

**SECTION 7: Handling and storage**

**(a) Precautions for safe handling:**

Use an OSHA/NIOSH approved respirator if necessary.

**(b) Conditions for safe storage, including any incompatibilities:**

Store in a dry area to minimize potential for clumping due to moisture absorption.

**SECTION 8: Exposure controls/Personal protection**

**(a) Control parameters:**

Chemical	ACGIH TLV	OSHA PEL TWA
1. Plaster of Paris	10 mg/m <sup>3</sup> Inhalable fraction	15 mg/m <sup>3</sup> total dust, 5 mg/m <sup>3</sup> respirable

**(b) Appropriate Engineering Controls:**

Ventilate to keep exposures below TLV requirements. Use local exhaust ventilation if necessary to control dust.

**(c) Individual protection measures:**

**RESPIRATORY:** None required where adequate ventilation conditions exist. Wear a NIOSH/OSHA approved dust respirator in poorly ventilated areas or if TLV requirements are exceeded.

**OTHER PROTECTIVE EQUIPMENT:** No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate governing standards. An eyewash station and a safety shower are recommended.

**SECTION 9: Physical and chemical properties**

(a) Appearance:	White to off-white powder
(b) Odor:	None
(c) Odor threshold:	ND
(d) pH:	7.5 - 8.5
(e) Melting point / freezing point:	1,450 Degrees Celsius
(f) Initial boiling point and boiling range:	ND
(g) Flash point	Not Combustible
(h) Evaporation rate (BuAc=1):	ND
(i) Flammability:	ND
(j) Upper/lower flammability or explosive limits:	ND
(k) Vapor Pressure:	ND
(l) Vapor density:	ND
(m) Relative density:	ND
(n) Solubility:	ND
(o) Partition coefficient: n-octanol/water:	ND
(p) Auto-ignition temperature:	ND
(q) Decomposition temperature:	1,450 Degrees Celsius
(r) Viscosity:	ND

**SECTION 10: Stability and reactivity**

(a) Reactivity:	Low, HMIS 0
(b) Chemical stability:	Stable
(c) Possibility of hazardous reactions:	Low
(d) Conditions to avoid:	Incompatible with Acids
(f) Hazardous decomposition products:	Decomposes to Calcium Oxide and Sulfur Dioxide at 1,450°C

**SECTION 11: Toxicological information**

Acute toxicity	NE
Skin corrosion/irritation	NE
Serious Eye Damage / Irritation	NE
Respiratory or skin sensitization	NE
Germ cell mutagenicity	NE
Carcinogenicity	NE
Reproductive toxicity	NE
STOT-single exposure	NE
STOT-repeated exposure	NE
Aspiration Hazard	NE

(a) Exposure route:	inhalation, skin and/or eye contact
(b) Symptoms related to the physical, chemical and toxicological characteristics:	difficulty breathing, rashes or irritations
(c) Delayed and immediate effects and also chronic effects from short and long tem exposure:	difficulty breathing, rashes or irritations
(d) Numerical measures of toxicity:	See control parameters above

**SECTION 12: Ecological information**

(a) Ecotoxicity:	ND
(b) Persistence and degradability:	ND
(c) Bioaccumulative potential	ND
(d) Mobility in soil:	ND
(e) Other adverse effects:	ND

**SECTION 13: Disposal considerations**

**Product:**

**Recommendation**

Sweep and dispose of material in accordance with all applicable federal, state and local regulations.

**SECTION 14: Transport information**

**(a) UN Number**

Not regulated.

**(b) UN Proper shipping name**

NA

**(c) Transport hazard class(es)**

NA

**(d) Packing Group**

NA

**(e) Environmental hazards**

NA

**(f) Transport in bulk**

NA

**(g) Other Information**

NA

**SECTION 15: Regulatory information**

**SARA Reporting Requirements:**

NA

**SARA Threshold Planning Quantity:**

NA

**TSCA Inventory Status:**

ND

**Other Federal Requirements:**

NA

**Other Canadian Regulations:**

NA

**State Regulatory Information:**

NA

**SECTION 16: Other information**

**PREPARED BY:**

Kristofer Mainar

**GAR QMS SDS REFERENCE:**

A732

**HAZARDOUS MATERIAL IDENTIFICATION (HMIS) RATING:**

Health	0
Flammability	0
Reactivity	0
Other	NA

**REVISION NUMBER:**

210601

**CHANGES FROM PREVIOUS VERSION:** Added Chemtrec account number on 4/12/17.

Note; on 11/22/19 this SDS was corrected to show CHEMTREC instead of CHEMTRAC

6/1/2021 - Updated to reflect supplier SDS.

**Safety Data Sheet**

Form No. A731

**Date Prepared:****6/1/2021****ABBREVIATIONS**

NA Not Applicable

ND Not Determined

NE Not Established

ppm parts per million

G Gallon

mg Milligram

L Liter

gm Gram

mol Mole

kg Kilogram

 $\mu$  Micro

mm Millimeter

p Pico

Pa Pascals

c cent

LC Lethal Concentration

ACGIH American Conference of Governmental Industrial Hygienist

CPR Controlled Product's Regulation

DSL Canadian Domestic Substances List

NDSL Canadian Non-domestic Substance List

IARC International Agency for Research for Cancer

LD Lethal Dose

TC Toxic Concentration

TD Toxic Dose

BOD Biological Oxygen Demand

COD Chemical Oxygen Demand

Lo Lowest

ThOD Theoretical Oxygen Demand

TLm Threshold Limit

IC Inhibitory Concentration

DOC Dissolved Organic Carbon

H Hours

M Months

D Days

Y Years

W Weeks

NOEL No Observed Effect Level

NOAEL No Observed Adverse Effect Level

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

TLV Threshold Limit Value

THIS MATERIAL SAFETY DATA SHEET IS PREPARED IN COMPLIANCE WITH FEDERAL REGULATIONS (29 CFR 1910.1200) OF CHEMICALS AND THE GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING REVISION 5. ANY APPLICABLE STATE AND LOCAL REGULATIONS SHOULD BE CONSULTED.

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