

SAFETY DATA SHEET

Section 1. Product Identification

Product identifier	Dynaplast® TSHR, Dynaplast® T-1, DynaPlast® LE, DynaPlast® RP, Anchoring Cement Industrial Plasters, Ready Set Cement & Grout.
Other means of identification	
SDS number	ACG 2002
Additional Products	
Synonyms	Mixture of Plaster of Paris, Portland Cement and Limestone
Recommended use	Specialty Applications for cast materials.
Recommended Restrictions	Use in accordance with manufacturer's recommendations.
Manufacturer/Importer/Supplier/Distributor information	
Company name	ACG Materials
Address	1550 Double Drive Norman, OK 73069
Telephone	1-800-624-5963
Website	www.ACGmaterials.com
Emergency phone number	1-800-624-5963

Section 2. Hazard(s) Identification

Physical hazards	Not classified
Health Hazards	Not classified
Acute:	
Eyes	Contact can cause mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician. Eye irritation Category 2, subcategory 2B.
Inhalation:	This material hardens and slowly become shot when mixed with water. Therefore, it SHOULD NOT be used to make a cast enclosing any part of the body. Failure to follow these instructions can cause burns that may require medical attention. Burns from exposure to Portland cement can occur 12 to 48 hours after exposures of 1 to 6 hours. Burns may occur without obvious pain at the time of exposure. Portland cement will not cause an alkaline burn by itself in dry form. However, direct prolonged or repeated contact with the skin may cause irritation. Rubbing of this product against the skin can result in abrasions. Rinse with water until free of material to avoid abrasions, and then wash skin thoroughly with mild soap and water. May dry skin. Mild Skin Irritation Category B.
Ingestion:	Harmful if swallowed. Plaster of Paris is non-toxic, however, ingestion of a sufficient quantity could lead to mechanical obstruction of the gut, especially the pyloric region. See Section 4.
Chronic:	Gypsum and Portland cement display no specific toxic properties. (Repeated Exposure: Category 2)
Inhalation	Bronchitis and emphysema have been reported after many years of exposure to Portland cement. Prolonged and repeated exposure to respirable crystalline silica can result in lung disease (i.e. silicosis) and /or lung cancer.
Skin:	Dermatitis.
Ingestion:	Burns to esophagus and stomach.
Environmental hazards	Not Classified
OSHA defined hazards	Not Classified

Label elements



Signal word	Warning
Hazard statement	This product can release nuisance dust in handling or during use. Eye, skin, nose, throat, and upper respiratory irritation may occur prolonged dust exposures.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Avoid breathing dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If exposed or concerned: Get medical advice/attention. If inhaled: If breathing is difficult remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor. If you feel unwell. If on skin: Wash with plenty of water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.

**Storage
Disposal**

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of in accordance with local, state, and federal regulations.

Hazard(s) not otherwise classified (HNOC)

None known.

Section 3. Composition/Information on Ingredients

Mixtures

Chemical name	CAS number	%
Calcium Sulfate Hemihydrate (Plaster of Paris)	26499-65-0	72-96
Portland Cement	65997-15-1	2-11
Silicon Dioxide (Crystalline Silica)	14808-60-7	<0.025
Calcium Carbonate	1317-65-3	0-15

Composition comments

All concentrations are in percent by weight unless ingredient is a gas.

Section 4. First-Aid Measures

Eye contact

Direct contact can cause mechanical irritation of eyes including: burning, redness, itching, pain or other symptoms. Flush thoroughly with water for 15 minutes. If irritation persists, consult physician. Contact lenses should not be worn while using Portland cement.

Skin contact

Direct, prolonged or repeated contact with the skin may cause irritation. Rubbing of this product against the skin can result in abrasions. Rinse with water until free of material to avoid abrasions, and then wash skin thoroughly with mild soap and water. May dry skin, and chronic exposure could lead to dermatitis. Wash with mild soap and water. Dry skin may be treated with a commercially available hand lotion. If skin has become cracked, take appropriate action to prevent infection and promote healing. If cement penetrates clothing, promptly remove clothing and flush with water. Affected clothing should be washed before wearing again.

Inhalation

Inhalation of dusts from this product may irritate the nose, throat, lungs, and upper respiratory tract. Leave the area of dust exposure and remain away until coughing and other symptoms subside. Bronchitis and emphysema have been reported after many years of exposure to Portland cement. Prolonged and repeated exposure to respirable crystalline silica can result in lung disease (i.e. silicosis) and/or lung cancer. While other measures are usually not necessary, consult a physician if conditions warrant.

Ingestion

Unlikely to occur, but may cause gastric disturbances if swallowed. Plaster of Paris is non-toxic; however, ingestion of a sufficient quantity could lead to mechanical obstruction of the gut, especially the pyloric region. Get medical attention immediately. Portland cement is highly alkaline (pH 12) and may cause burns to the esophagus and stomach. The use of diluents is controversial and neutralization is contraindicated.

Target Organs:

Eyes, skin and respiratory system.

Medical Conditions which may be aggravated

Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema, and asthma.



Primary Routes of entry: Inhalation, eyes and/or skin contact, ingestion.

Section 5. Fire and Explosion Hazard Data

Flash Point	Non-combustible
Auto-Ignition	Not applicable.
Flammable limit	Not applicable.
Fire Extinguishing Media	Use extinguishing media appropriate for surrounding fire.
Special Fire-fighting Procedures	Wear proper personal protective equipment as listed in Section 8.
Hazardous combustion procedures	Not applicable.
Explosion Hazards	None known.

Section 6. Accidental Release Measures

Methods and materials for containment and cleaning up	Remove by dry sweeping or vacuum. Avoid crating excessive dust. It is recommended that gloves and a mask be worn while cleaning the spill. If already mixed with water, scrape up and place in container. Wear appropriate protective equipment as described in Sections 7 & 8.
Environmental precautions	Dispose of material in accordance with all applicable federal, state and local regulations. Can be disposed as an inert solid in a landfill. Slurry may plug drains.

Section 7. Handling and Storage

Precautions for safe handling	Avoid contact with skin and eyes. Do not breathe dust. Use only in well ventilated areas. Wear appropriate eye and respiratory protection, including a NIOSH approved dust mask, if dust is generated. When using, do not eat or drink. Wash hands before eating, drinking or smoking.
Conditions for safe storage, including an incompatibilities	Keep out of reach of children. Keep the container tightly closed and dry. Store in a covered, dry climate controlled area, away from incompatibles listed in Section 10.

Section 8. Exposure Controls/Personal Protection

Occupational exposure limits
US. OSHA table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Plaster of Paris	PEL	5 mg/m3	Respirable.
Portland Cement	TWA	5 mg/m3	Respirable.
Crystalline Silica	TWA	5 mg/m3	Respirable
Calcium Silica	TWA	10 mg/m3	Respirable

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Plaster of Paris	TWA	10 mg/m3	Inhalable fraction.
Portland Cement	TWA	1 mg/m3	Respirable
Crystalline Silica	TWA	0.025 mg/m3	Respirable.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Plaster of Paris	TWA	5 mg/m3	Respirable
Portland Cement	TWA	5 mg/m3	Respirable
Crystalline Silica	TWA	.05 mg/m3	Respirable



TWA

10 mg/m³

Respirable

Ventilate to keep exposures below TLV requirements of the individual ingredients. General ventilation is expected to be satisfactory, Use local exhaust ventilation if necessary to control dust.

Engineering Controls

None required where adequate ventilation conditions exist. In order to meet TLV requirements of individual ingredients and to control dusting conditions, provide general ventilation and local exhaust ventilation. Avoid creating dust. Wear a NIOSH/MSHA approved dust respirator in poorly ventilated areas and/or if TLV requirements of the individual ingredients is exceeded.

Respiratory protection

Section 9. Physical and Chemical Properties

Appearance	Grey
Physical state	Powder/Solid.
Melting Point	Not applicable.
Freezing Point	Not applicable.
Odor	Low.
Odor threshold	Not determined.
Flash point	Non-combustible.
Flammability limits	Not applicable.
Solubility (in water) (g/100g)	0.15%
Initial boiling point	Not applicable
Boiling Range	Not applicable.
Specific gravity	2.6-3.0
pH	10-12
Hardening time	45-120 minutes
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Auto-ignition temperature	None.
Evaporation rate	Not applicable.
Viscosity	Not applicable.
Upper flammability limit	Not determined.
Lower flammability limit	Not determined.
Decomposition temp	1451°C/2642°F

Section 10. Chemical Stability and Reactivity

Conditions of reactivity	Reacts with water and produces large amounts of heat (normal condition of use).
Chemical stability	Stable at normal storage conditions and temperature.
Conditions to avoid	Water, high humidity, and acids.
Hazardous decomposition products	Stable at normal storage conditions and temperature.
Hazardous polymerization	None known.

Section 11. Toxicological Information

Information on likely routes of exposure	
Acute effects	The acute oral toxicity study [OECD TG 420] of calcium sulfate dihydrate showed that this chemical did not cause any changes and there was no evidence of germ cell mutagenicity.
Chronic effects	Crystalline Silica: Exposures to respirable crystalline silica are not expected during the normal use of this product; however, levels must be determined by in-house workplace hygiene testing.

Section 12. Ecological Information

Ecotoxicity

There are no known causes from this product that would harm the Ecology. However, the Portland cement has high alkaline properties (pH > 12), which are expected to be toxic to fish. The disposal of large quantities directly into waterways would be expected to cause significant aquatic life death.

Section 13 Disposal Considerations

Disposal procedure Dispose of material in accordance with all applicable federal, state and local regulations. Can be disposed as an inert solid in a landfill. Slurry may plug drains. Do not dispose of directly in waterways or sewers.

Section 14. Transport Information

Department of Transportation (DOT) Requirements This product is not regulated as a hazardous material by the United States (DOT) transportation regulations.

Canadian Transportation of dangerous goods Not regulated as dangerous goods.

UN# None, Not regulated as dangerous goods.

ADNR None.

RID/ADR: Not classified.

Environmental hazards None.

Annex II of MARPOL 73/78 Not applicable

International bulk chemical code Not applicable

Section 15 Regulatory Information

U.S. EPA's Toxic Substance Control Act Chemical Substance Inventory Not listed as reportable quantity or regulated quantity in SARA Title III Sections 302, 304, and 313. CAA Section 112® Regulated Chemicals for Accidental Release Prevention, CERLA Hazardous Substances, and RCRA Hazardous Waste.

Canadian Controlled Product Regulations
 Crystalline Silica: IDL* Item #1406 Classification: D2A
 Limestone: WHMIS** Classification: D2A
 Portland Cement: WHMIS** Classification: E

European Union Directive 67/548/EEC (Annex III and IV) R36, R37, R38, S37, S3, S39, and S51.

*IDL Item: Canadian Hazardous Product Act Ingredient Disclosure List

** WHMIS: Workplace Hazardous Safety Information System

Section 16 Other Information

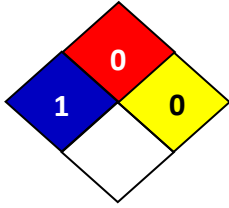
16. Other Information, including date of preparation or last revision

Issue date 24-April 2015
 Version # 02

Further information NFPA Ratings “
 Health: 1
 Flammability: 0
 Physical hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

NFPA ratings



Disclaimer:

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.