SAFETY DATA SHEET



1. Identification

Product identifier Metal Casting Plasters 280, 475
Product list Metal Casting Plaster 475 BR-475
Metal Casting Plaster 280 BR-280

Other means of identification

SDS number GP-41E

Recommended use Industrial plasters.

Recommended restrictions Workers (and your customers or users in the case of resale) should be informed of the potential

presence of respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as required

under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information

Company name GP Industrial Plasters LLC **Address** 100 Peachtree Street, NW

Atlanta, GA 30303

Telephone Technical Information 800.225.6119

(M)SDS Request 404.652.5119

E-mail MSDSREQ@GAPAC.COM

Emergency phone number Chemtrec - Emergency 800.424.9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 4

Eye irritation Category 2B
Sensitization, skin Category 1
Carcinogenicity Category 1A
Specific target organ toxicity, repeated Category 1 (lung)

exposure

Category 3

Environmental hazards Hazard

Hazardous to the aquatic environment, acute hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Harmful if swallowed. May cause an allergic skin reaction. Causes eye irritation. May cause

cancer. Causes damage to organs (lung) through prolonged or repeated exposure. Harmful to

aquatic life.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment. After mixing with water, do not allow prolonged contact with skin until the product

has completely hardened and cooled.

Material name: Metal Casting Plasters 280, 475

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Response If swallowed: Rinse mouth. Call a poison center/doctor if you feel unwell. If in eyes: Rinse

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If exposed or concerned: Get medical advice/attention. Specific treatment

(see section 4 on the SDS).

Storage Keep container tightly closed. Store away from incompatible materials (see Section 10 of the

SDS). Protect from moisture.

Disposal Dispose of contents/container in accordance with applicable regulations.

Hazard(s) not otherwise classified (HNOC)

Heat develops as product hardens. May cause serious burns during hardening (rehydration)

resulting in possible permanent injury.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
CALCIUM SULFATE HEMIHYDRATE		10034-76-1	60 - 80
DIATOMACEOUS EARTH		68855-54-9	10 - 30
WOLLASTONITE		13983-17-0	1 - 5
PORTLAND CEMENT		65997-15-1	0.5 - 1.5
CRYSTALLINE SILICA (QUARTZ)		14808-60-7	0.1 - 1
ZIRAM		137-30-4	0 - 0.1

The specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Composition comments

Gypsum (calcium sulfate), diatomaceous earth and Portland Cement contain naturally occurring crystalline silica (quartz) which is listed as a lung carcinogen. See Section 8 for exposure information.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of

eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation

develops and persists.

Ingestion Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if

you feel unwell

Most important

symptoms/effects, acute and

delayed

Causes eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort. Dusts may irritate the respiratory tract, skin and eyes. Coughing. Discomfort in the chest. Shortness of breath. May cause an allergic skin reaction. Dermatitis. Rash. Skin contact during hardening (rehydration) may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin. Prolonged exposure may

cause chronic effects.

Indication of immediate medical attention and special

treatment needed
General information

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in

attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Firefighters should wear full protective clothing including self contained breathing apparatus. Use

water spray to cool unopened containers.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up Sweep up or gather material and place in appropriate container for disposal. Minimize dust generation and accumulation. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Contain the spill, then place in a suitable container. For waste disposal, see section 13 of the SDS. Prevent entry into waterways, sewer, basements or confined areas.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. If large quantities enter a waterway, advise local authorities.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in a dry place. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep away from food, drink and animal feedingstuffs.

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
CALCIUM SULFATE HEMIHYDRATE (CAS 10034-76-1)	PEL	5 mg/m3	Respirable fraction.
,		15 mg/m3	Total dust.
CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
PORTLAND CEMENT (CAS 65997-15-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CFR 1910.1000)			
Components	Type	Value	
DIATOMACEOUS EARTH (CAS 68855-54-9)	TWA	0.86 mg/m3	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
CALCIUM SULFATE HEMIHYDRATE (CAS 10034-76-1)	TWA	10 mg/m3	Inhalable fraction.
CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
PORTLAND CEMENT (CAS 65997-15-1)	TWA	1 mg/m3	Respirable fraction.

Material name: Metal Casting Plasters 280, 475

US. NIOSH: Pocket Guide to Chem Components	ical Hazards Type	Value	Form
CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
DIATOMACEOUS EARTH (CAS 68855-54-9)	TWA	6 mg/m3	
PORTLAND CEMENT (CAS 65997-15-1)	TWA	5 mg/m3	Respirable.
,		10 mg/m3	Total

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica

should be monitored and controlled.

Exposure limits for Amorphous, including natural diatomaceous earth - The US OSHA exposure limits 8 hour TWA for Amorphous, including natural diatomaceous earth is calculated from the following equations: 80/(%SiO2) mg/m3.

Appropriate engineering

controls

When using product, provide local and general exhaust ventilation to keep airborne dust

concentrations below exposure limits. Use wet methods, if appropriate, to reduce the generation of

dust.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Ensure compliance with OSHA's PPE standard

(29 CFR 1910.132 and .133) for eye and face protection. Safety shower/eye wash fountain must

be readily available in the workplace area (29 CFR 1910.151(c)).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Impervious protective clothing and gloves recommended to prevent drying or irritation of skin.

Ensure compliance with OSHA's PPE standards (29 CFR 1910.132 (general) and 138 (hand protection)). Safety shower/eye wash fountain is recommended in the workplace area (29 CFR

1910.151 (c)).

Respiratory protection A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or

when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection

(Z88.2).

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

9. Physical and chemical properties

Appearance Powder
Physical state Solid.
Form Powder.

Color Light grey to white

Odor Low odor
Odor threshold Not available.

pH 8 - 11

Melting point/freezing point 2716.25 °F (1491.25 °C) estimated

Initial boiling point and boiling

range

Not applicable

Flash point

Not applicable

Evaporation rate

Not available

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower Not applicable

(%)

Flammability limit - upper

(%)

Not applicable

Explosive limit - lower (%)
Explosive limit - upper (%)

Not available.

Not available.

Vapor pressure Vapor density Not applicable
Not applicable

Relative density

2 - 2.5 g/cm3

Solubility(ies)

Solubility (water)
Partition coefficient
(n-octanol/water)

0.2 % @ 22°C Not available.

Auto-ignition temperature

Decomposition temperature

Not applicable
Not available.
Not available.

Other information

Viscosity

Explosive properties

Flash point class

Oxidizing properties

Not explosive.

Not flammable

Not oxidizing.

Specific gravity

2 - 2.5

10. Stability and reactivity

Reactivity Reacts with water (normal condition of use).

Acids.

Chemical stability Stable at normal conditions.

Possibility of hazardous

Conditions to avoid

reactions

No dangerous reaction known under conditions of normal use.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Contact with

incompatible materials. Exposure to moisture.

Incompatible materials

Hazardous decomposition

products

May include and are not limited to: calcium oxide and sulfur dioxide.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. Dust may

irritate respiratory system.

Skin contact Dust or powder may irritate the skin. May cause an allergic skin reaction. Skin contact during

hardening (rehydration) may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow

continuous, prolonged contact with skin. Handling can cause dry skin.

Eye contactCauses eye irritation. **Ingestion**Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Causes eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort. Dusts may irritate the respiratory tract, skin and eyes. Coughing. Discomfort in the chest.

Shortness of breath. May cause an allergic skin reaction. Dermatitis. Rash. Skin contact during hardening (rehydration) may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow

resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin.

Information on toxicological effects

Acute toxicity Harmful if swallowed.

Product Species Test Results

Metal Casting Plasters 280, 475

Acute Oral

ATEmix 1973.3986 mg/kg

Material name: Metal Casting Plasters 280, 475

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Test Results Components **Species**

CALCIUM SULFATE HEMIHYDRATE (CAS 10034-76-1)

Acute

Oral

LD50 Rat > 1581 mg/kg

ZIRAM (CAS 137-30-4)

Acute

Dermal

LD50 Rabbit 2000.1 mg/kg

Inhalation

LC50 Rat 81 mg/l/4h

Oral

LD50 Rat 320 mg/kg

Skin contact during hardening (rehydration) may slowly develop sufficient heat that may cause Skin corrosion/irritation

severe burns possibly resulting in permanent injury. Do not allow product to harden around any

body part or allow continuous, prolonged contact with skin. Handling can cause dry skin.

Serious eye damage/eye

irritation

Causes eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Exposure to respirable crystalline silica in the form of quartz or cristobalite from occupational Carcinogenicity

sources is listed by IARC and NTP as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to a respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of respirable crystalline silica exposure and the length of time (usually years) of exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7) 1 Carcinogenic to humans.

DIATOMACEOUS EARTH (CAS 68855-54-9) 3 Not classifiable as to carcinogenicity to humans. WOLLASTONITE (CAS 13983-17-0) 3 Not classifiable as to carcinogenicity to humans.

ZIRAM (CAS 137-30-4) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7) Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Causes damage to organs (lung) through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be

harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Harmful to aquatic life.

Components **Species Test Results**

CALCIUM SULFATE HEMIHYDRATE (CAS 10034-76-1)

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Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) > 1970 mg/l, 96 hours

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^{*} Estimates for product may be based on additional component data not shown.

Test Results Components **Species**

CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7)

Aquatic

Acute

LC50 Fish Zebra danio (Danio rerio) > 10000 mg/l, 96 Hours OECD SIDS

ZIRAM (CAS 137-30-4)

Aquatic

Acute

Fish LC50 Fish 0.0097 - 1.7 mg/l, 96 hours

Chronic

NOEC Fish Fish 0.101 - 0.222 mg/l, 33 days

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

1.23 ZIRAM

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, **Disposal instructions**

whether the product meets RCRA criteria for hazardous waste.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

US RCRA Hazardous Waste P List: Reference

ZIRAM (CAS 137-30-4) P205

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

ZIRAM (CAS 137-30-4) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7)

Cancer

lung effects

immune system effects

kidney effects

Material name: Metal Casting Plasters 280, 475

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Yes

Classified hazard

categories

Acute toxicity (any route of exposure) Serious eye damage or eye irritation Respiratory or skin sensitization

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

California Proposition 65



WARNING: This product can expose you to chemicals including CRYSTALLINE SILICA (QUARTZ), which is

known to the State of California to cause cancer. For more information go to

www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

CRYSTALLINE SILICA (QUARTZ) (CAS Listed: October 1, 1988

14808-60-7)

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

CRYSTALLINE SILICA (QUARTZ) (CAS 14808-60-7)

International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)YesUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue dateMarch-04-2015Revision dateAugust-22-2018

Version # 05

HMIS® ratings Health: 2*

Flammability: 0 Physical hazard: 1

NFPA ratings Health: 2

Flammability: 0 Instability: 0

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Disclaimer

This SDS is intended to quickly provide useful information to the user(s) of this material or product. It is not intended to serve as a comprehensive discussion of all possible risks or hazards, and it assumes a reasonable use of the product. The information contained in this SDS is believed to be accurate as of the date of preparation of this SDS and has been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. The user or handler (or their employer) should consider the specific conditions in which this material will be used, handled, or stored and determine what specific safety or other precautions are required. Employers should ensure that their employees, agents, contractors, and customers who will use the product receive adequate warnings and safe handling procedures, including a current SDS. Product users or handlers (or their employer) who are unsure of what specific precautions are required should consult their employer, product supplier, or safety or health professionals before handling or working with this product. Please notify us immediately if you believe this SDS or other safety and health information about this product is inaccurate or incomplete.

Revision information

Identification: Recommended restrictions Hazard(s) identification: Hazard statement Toxicological Information: Toxicological Data

Ecological information: Ecotoxicity

Transport information: General information Regulatory information: California Proposition 65 Regulatory information: US federal regulations

GHS: Classification

SDS US