

# EPIREZ SUPERSTRENGTH GROUT

Chemwatch Material Safety Data Sheet

Issue Date: 5-May-2006

C317SC

CHEMWATCH 5141-58

CD 2006/2 Page 1 of 11

---

## Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

---

### PRODUCT NAME

EPIREZ SUPERSTRENGTH GROUT

### SYNONYMS

"Product Code: E991621"

### PRODUCT USE

Used according to manufacturer's directions.

### SUPPLIER

Company: ITW Polymers & Fluids

Address:

100 Hassall Street

Wetherill Park

NSW, 2164

AUS

Telephone: +61 2 9757 8800

Emergency Tel: +61 2 9757 8800

Fax: 1800 803 596

### QUEENSLAND DISTRIBUTOR

*INTERNATIONAL TRADERS* Pty Ltd

6/286 Evans Rd

Salisbury - BRISBANE - QLD 4107

Phone (07) 3272 9051 Fax (07) 3272 9744

---

## Section 2 - HAZARDS IDENTIFICATION

---

### STATEMENT OF HAZARDOUS NATURE

**HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to the  
Criteria of NOHSC, and the ADG Code.**

### POISONS SCHEDULE

None

### RISK

Irritating to eyes and skin.

Harmful: danger of serious damage to health by prolonged exposure through  
inhalation.

Inhalation and/or ingestion may produce health damage\*.

\* (limited evidence).

### SAFETY

Do not breathe dust.

Wear eye/face protection.

Use only in well ventilated areas.

Keep container in a well ventilated place.

Take off immediately all contaminated clothing.

In case of contact with eyes, rinse with plenty of water and contact Doctor or  
Poisons Information Centre.

continued...

# EPIREZ SUPERSTRENGTH GROUT

Chemwatch Material Safety Data Sheet

Issue Date: 5-May-2006

C317SC

CHEMWATCH 5141-58

CD 2006/2 Page 2 of 11

---

## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

---

| NAME            | CAS RN      | %       |
|-----------------|-------------|---------|
| portland cement | 65997-15-1  | 30-60   |
| graded sand     | 14808-60-7. | 30-60   |
| additives       |             | balance |

---

## Section 4 - FIRST AID MEASURES

---

### SWALLOWED

- If swallowed do NOT induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.
- Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.
- Seek medical advice.

### EYE

If this product comes in contact with the eyes:

- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- If pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

### SKIN

If skin contact occurs:

- Immediately remove all contaminated clothing, including footwear
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

### INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prosthesis such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- Transport to hospital, or doctor.

### NOTES TO PHYSICIAN

Treat symptomatically.

For acute or short-term repeated exposures to highly alkaline materials:

- Respiratory stress is uncommon but present occasionally because of soft tissue edema.
- Unless endotracheal intubation can be accomplished under direct vision, cricothyroidotomy or tracheotomy may be necessary.
- Oxygen is given as indicated.

continued...

# EPIREZ SUPERSTRENGTH GROUT

Chemwatch Material Safety Data Sheet

Issue Date: 5-May-2006

C317SC

CHEMWATCH 5141-58

CD 2006/2 Page 3 of 11

Section 4 - FIRST AID MEASURES

- The presence of shock suggests perforation and mandates an intravenous line and fluid administration.
- Damage due to alkaline corrosives occurs by liquefaction necrosis whereby the saponification of fats and solubilisation of proteins allow deep penetration into the tissue.  
Alkalis continue to cause damage after exposure.

## INGESTION:

- Milk and water are the preferred diluents  
No more than 2 glasses of water should be given to an adult.
- Neutralising agents should never be given since exothermic heat reaction may compound injury.  
\* Catharsis and emesis are absolutely contra-indicated.  
\* Activated charcoal does not absorb alkali.  
\* Gastric lavage should not be used.

Supportive care involves the following:

- Withhold oral feedings initially.
- If endoscopy confirms transmucosal injury start steroids only within the first 48 hours.
- Carefully evaluate the amount of tissue necrosis before assessing the need for surgical intervention.
- Patients should be instructed to seek medical attention whenever they develop difficulty in swallowing (dysphagia).

## SKIN AND EYE:

- Injury should be irrigated for 20-30 minutes.  
Eye injuries require saline. [Ellenhorn & Barceloux: Medical Toxicology].

---

## Section 5 - FIRE FIGHTING MEASURES

---

### EXTINGUISHING MEDIA

- There is no restriction on the type of extinguisher which may be used.  
Use extinguishing media suitable for surrounding area.

### FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves for fire only.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use fire fighting procedures suitable for surrounding area.
- DO NOT approach containers suspected to be hot.
- Cool fire exposed containers with water spray from a protected location.
- If safe to do so, remove containers from path of fire.
- Equipment should be thoroughly decontaminated after use.

### FIRE/EXPLOSION HAZARD

- Non combustible.
- Not considered a significant fire risk, however containers may burn.  
Decomposition may produce toxic fumes of, metal oxides. May emit poisonous fumes.  
May emit corrosive fumes.

continued...

# EPIREZ SUPERSTRENGTH GROUT

Chemwatch Material Safety Data Sheet  
Issue Date: 5-May-2006  
C317SC

CHEMWATCH 5141-58  
CD 2006/2 Page 4 of 11  
Section 5 - FIRE FIGHTING MEASURES

---

## FIRE INCOMPATIBILITY

None known.

## HAZCHEM

None

## Personal Protective Equipment

Breathing apparatus.  
Gas tight chemical resistant suit.  
Limit exposure duration to 1 BA set 30 mins.

---

## Section 6 - ACCIDENTAL RELEASE MEASURES

---

## EMERGENCY PROCEDURES

### MINOR SPILLS

- Remove all ignition sources.
- Clean up all spills immediately.
- Avoid contact with skin and eyes.
- Control personal contact by using protective equipment.
- Use dry clean up procedures and avoid generating dust.
- Place in a suitable labelled container for waste disposal.

### MAJOR SPILLS

Moderate hazard.

- CAUTION: Advise personnel in area.
- Alert Emergency Services and tell them location and nature of hazard.
- Control personal contact by wearing protective clothing.
- Prevent, by any means available, spillage from entering drains or water courses.
- Recover product wherever possible.
- IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal.
- ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.
- If contamination of drains or waterways occurs, advise Emergency Services.

## EMERGENCY RESPONSE PLANNING GUIDELINES (ERPG)

The maximum airborne concentration below which it is believed that nearly all individuals could be exposed for up to one hour WITHOUT experiencing or developing

life-threatening health effects is:  
graded sand 50 mg/m<sup>3</sup>

irreversible or other serious effects or symptoms which could  
impair an individual's ability to take protective action is:  
graded sand 0.25 mg/m<sup>3</sup>

other than mild, transient adverse effects  
without perceiving a clearly defined odour is:  
graded sand 0.15 mg/m<sup>3</sup>

continued...

# EPIREZ SUPERSTRENGTH GROUT

Chemwatch Material Safety Data Sheet

Issue Date: 5-May-2006

C317SC

CHEMWATCH 5141-58

CD 2006/2 Page 5 of 11

## Section 6 - ACCIDENTAL RELEASE MEASURES

The threshold concentration below which most people will experience no appreciable risk of health effects:  
graded sand 0.15 mg/m<sup>3</sup>

American Industrial Hygiene Association (AIHA)

Ingredients considered according to the following cutoffs

|                 |          |               |         |
|-----------------|----------|---------------|---------|
| Very Toxic (T+) | >= 0.1%  | Toxic (T)     | >= 3.0% |
| R50             | >= 0.25% | Corrosive (C) | >= 5.0% |
| R51             | >= 2.5%  |               |         |
| else            | >= 10%   |               |         |

where percentage is percentage of ingredient found in the mixture

**Personal Protective Equipment advice is contained in Section 8 of the MSDS.**

## Section 7 - HANDLING AND STORAGE

### PROCEDURE FOR HANDLING

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- DO NOT allow material to contact humans, exposed food or food utensils.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately. Launder contaminated clothing before re-use.
- Use good occupational work practice.
- Observe manufacturer's storing and handling recommendations.
- Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.

### SUITABLE CONTAINER

- Polyethylene or polypropylene container.
- Check all containers are clearly labelled and free from leaks.

### STORAGE INCOMPATIBILITY

Avoid contact with copper, aluminium and their alloys.  
Avoid strong acids.

### STORAGE REQUIREMENTS

Observe manufacturer's storing and handling recommendations.

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE CONTROLS

| Source | Material | TWA | TWA | STEL | STEL | Peak | Peak |
|--------|----------|-----|-----|------|------|------|------|
|--------|----------|-----|-----|------|------|------|------|

continued...

# EPIREZ SUPERSTRENGTH GROUT

Chemwatch Material Safety Data Sheet  
 Issue Date: 5-May-2006  
 C317SC

CHEMWATCH 5141-58  
 CD 2006/2 Page 6 of 11

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

| Source                       | Material        | TWA ppm | TWA mg/m3 | STEL ppm | STEL mg/m3 | Peak ppm | Peak mg/m3 |
|------------------------------|-----------------|---------|-----------|----------|------------|----------|------------|
| Australia Exposure Standards | portland cement |         | 10        |          |            |          |            |
| Australia Exposure Standards | graded sand     |         | 0.1       |          |            |          |            |

The following materials had no OELs on our record under the following CAS or Chemwatch (CW) numbers  
 Epirez Superstrength Grout: No data available for CW:5141-58

### EMERGENCY EXPOSURE LIMITS

| Material        | Original IDLH Value (ppm) | Original IDLH Value (mg/m3) | Revised IDLH Value (mg/m3) | Revised IDLH Value (ppm) |
|-----------------|---------------------------|-----------------------------|----------------------------|--------------------------|
| portland cement | N.E.                      | N.E.                        | 5,000                      |                          |
| graded sand     | N.E.                      | N.E.                        | 50                         |                          |

Not available. Refer to individual constituents.

### INGREDIENT DATA

#### PORTLAND CEMENT:

Portland cement is considered to be a nuisance dust that does not cause fibrosis and has little potential to induce adverse effects on the lung.

#### GRADED SAND:

NOTE: This product contains negligible amount of respirable dust.

### PERSONAL PROTECTION

#### EYE

- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDCNIOSH Current Intelligence Bulletin 59].

#### HANDS/FEET

Suitability and durability of glove type is dependent on usage. Factors such as:

- frequency and duration of contact,
  - chemical resistance of glove material,
  - glove thickness and
  - dexterity,
- are important in the selection of gloves.

continued...

# EPIREZ SUPERSTRENGTH GROUT

Chemwatch Material Safety Data Sheet  
Issue Date: 5-May-2006  
C317SC

CHEMWATCH 5141-58  
CD 2006/2 Page 7 of 11

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids.

- polychloroprene
- nitrile rubber
- butyl rubber
- fluorocautchouc
- polyvinyl chloride

Gloves should be examined for wear and/ or degradation constantly.

Wear chemical protective gloves, eg. PVC.

Wear safety footwear or safety gumboots, eg. Rubber.

NOTE: The material may produce skin sensitisation in predisposed individuals.

Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.

### OTHER

- Overalls.
- P.V.C. apron.
- Barrier cream.
- Skin cleansing cream.
- Eye wash unit.

### ENGINEERING CONTROLS

Local exhaust ventilation usually required. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Supplied-air type respirator may be required in special circumstances. Correct fit is essential to ensure adequate protection.

An approved self contained breathing apparatus (SCBA) may be required in some situations.

Provide adequate ventilation in warehouse or closed storage area. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

|   |  |
|---|--|
| Type of Contaminant:<br>solvent, vapours, degreasing etc.,<br>evaporating from tank (in still air).   | Air Speed:<br>0.25-0.5 m/s (50-100 f/min.) |
| aerosols, fumes from pouring<br>operations, intermittent container<br>filling, low speed conveyer transfers,<br>welding, spray drift, plating acid<br>fumes, pickling (released at low<br>velocity into zone of active<br>generation) | 0.5-1 m/s (100-200 f/min.)                 |
| direct spray, spray painting in<br>shallow booths, drum filling, conveyer<br>loading, crusher dusts, gas discharge<br>(active generation into zone of rapid<br>air motion)  | 1-2.5 m/s (200-500 f/min.)                 |
| grinding, abrasive blasting, tumbling,<br>high speed wheel generated dusts<br>(released at high initial velocity<br>into zone of very high rapid air<br>motion).  | 2.5-10 m/s (500-2000 f/min.)               |

Within each range the appropriate value depends on:

continued...

# EPIREZ SUPERSTRENGTH GROUT

Chemwatch Material Safety Data Sheet  
Issue Date: 5-May-2006  
C317SC

CHEMWATCH 5141-58  
CD 2006/2 Page 8 of 11

## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

---

Lower end of the range  
1: Room air currents minimal or favourable to capture  
2: Contaminants of low toxicity or of nuisance value only.  
3: Intermittent, low production.  
4: Large hood or large air mass in motion

Upper end of the range  
1: Disturbing room air currents  
2: Contaminants of high toxicity  
3: High production, heavy use  
4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

---

## Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

---

### APPEARANCE

Grey powder with a cement odour; dispersible in water.

### PHYSICAL PROPERTIES

Does not mix with water.

Sinks in water.

Alkaline.

Molecular Weight: Not Available

Melting Range (°C): Not Available

Solubility in water (g/L): Immiscible

pH (1 % solution): Not Available

Volatile Component (%vol): Not Available

Relative Vapour Density (air=1): Not Available

Lower Explosive Limit (%): Not Available

Autoignition Temp (°C): Not Available

State: Divided Solid

Boiling Range (°C): Not Available

Specific Gravity (water=1): >1

pH (as supplied): Not Available

Vapour Pressure (kPa): Not Available

Evaporation Rate: Not Available

Flash Point (°C): Not Applicable

Upper Explosive Limit (%): Not Available

Decomposition Temp (°C): Not Available

Viscosity: Not Available

---

## Section 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION

---

### CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
- Product is considered stable.
- Hazardous polymerisation will not occur.

continued...

# EPIREZ SUPERSTRENGTH GROUT

Chemwatch Material Safety Data Sheet  
Issue Date: 5-May-2006  
C317SC

CHEMWATCH 5141-58  
CD 2006/2 Page 9 of 11

---

## Section 11 - TOXICOLOGICAL INFORMATION

---

### POTENTIAL HEALTH EFFECTS

#### ACUTE HEALTH EFFECTS

##### SWALLOWED

Accidental ingestion of the material may be damaging to the health of the individual.

##### EYE

This material can cause eye irritation and damage in some persons.

##### SKIN

This material can cause inflammation of the skin on contact in some persons.

The material may accentuate any pre-existing dermatitis condition.

Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.

Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

##### INHALED

Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual.

There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

Effects on lungs are significantly enhanced in the presence of respirable particles.

Cement dust is an allergen with skin contact and/or dust inhalation possibly causing allergic response or even sensitisation responses.

##### CHRONIC HEALTH EFFECTS

Repeated exposures, in an occupational setting, to high levels of fine- divided dusts may produce a condition known as pneumoconiosis which is the lodgement of any inhaled dusts in the lung irrespective of the effect. This is particularly true when a significant number of particles less than 0.5 microns (1/50,000 inch), are present. Lung shadows are seen in the X-ray. Symptoms of pneumoconiosis may include a progressive dry cough, shortness of breath on exertion, increased chest expansion, weakness and weight loss. As the disease progresses the cough produces a stringy mucous, vital capacity decreases further and shortness of breath becomes more severe. Pneumoconiosis is the accumulation of dusts in the lungs and the tissue reaction in its presence. It is further classified as being of noncollagenous or collagenous types. Noncollagenous pneumoconiosis, the benign form, is identified by minimal stromal reaction, consists mainly of reticulin fibres, an intact alveolar architecture and is potentially reversible. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

There is some evidence that inhaling this product is more likely to cause a sensitisation reaction in some persons compared to the general population.

There is limited evidence that, skin contact with this product is more likely to cause

continued...

# EPIREZ SUPERSTRENGTH GROUT

Chemwatch Material Safety Data Sheet

Issue Date: 5-May-2006

C317SC

CHEMWATCH 5141-58

CD 2006/2 Page 10 of 11

## Section 11 - TOXICOLOGICAL INFORMATION

a sensitisation reaction in some persons compared to the general population. Harmful: danger of serious damage to health by prolonged exposure through inhalation. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. This has been demonstrated via both short- and long-term experimentation. Respiratory sensitisation may result in allergic/asthma like responses; from coughing and minor breathing difficulties to bronchitis with wheezing, gasping. in some cases, sensitisation. Products when wet may be quite alkaline and this alkali action on the skin may contribute to cement contact dermatitis by causing drying and defatting of the skin which may be followed by hardening, cracking, development of lesions, possible infections of lesions and penetration by soluble salts.

### TOXICITY AND IRRITATION

Not available. Refer to individual constituents.

### CARCINOGEN

IARC: International Agency for Research on Cancer (IARC)

Carcinogens: graded sand Category: Group 1: Carcinogenic to humans

---

## Section 12 - ECOLOGICAL INFORMATION

DO NOT discharge into sewer or waterways.

---

## Section 13 - DISPOSAL CONSIDERATIONS

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

---

## Section 14 - TRANSPORTATION INFORMATION

### HAZCHEM

None

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS:UN,IATA,IMDG

---

## Section 15 - REGULATORY INFORMATION

### POISONS SCHEDULE

None

### REGULATIONS

portland cement (CAS: 65997-15-1) is found on the following regulatory lists;  
Australia High Volume Industrial Chemical List (HVICL)  
Australia Inventory of Chemical Substances (AICS)  
OECD Representative List of High Production Volume (HPV) Chemicals

continued...

# EPIREZ SUPERSTRENGTH GROUT

Chemwatch Material Safety Data Sheet

Issue Date: 5-May-2006

C317SC

CHEMWATCH 5141-58

CD 2006/2 Page 11 of 11

## Section 15 - REGULATORY INFORMATION

---

graded sand (CAS: 14808-60-7) is found on the following regulatory lists;

- Australia - New South Wales Hazardous Substances Prohibited for Specific Uses
- Australia - New South Wales Hazardous Substances Requiring Health Surveillance
- Australia - South Australia Hazardous Substances Requiring Health Surveillance
- Australia - Tasmania Hazardous Substances Prohibited for Specified Uses
- Australia - Tasmania Hazardous Substances Requiring Health Surveillance
- Australia - Western Australia Hazardous Substances Requiring Health Surveillance
- Australia Hazardous Substances Requiring Health Surveillance
- Australia High Volume Industrial Chemical List (HVICL)
- Australia Inventory of Chemical Substances (AICS)
- Australia Occupational Health and Safety (Commonwealth Employment) (National Standards) Regulations 1994 - Hazardous Substances Requiring Health Surveillance
- International Agency for Research on Cancer (IARC) Carcinogens
- OECD Representative List of High Production Volume (HPV) Chemicals

---

## Section 16 - OTHER INFORMATION

---

This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.

Issue Date: 5-May-2006

Print Date: 13-Jul-2006