



## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER : MPL PRODUCTS  
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PRODUCT NAME : CALCIUM CHLORIDE PRILLS  
PRODUCT USE : As internal phase brine for SBM and completion brine.  
SYNONYMS : "None"

## SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS No.	Concentration
Calcium Chloride	10043-52-4	>94% Commercial materials may contain up to 3% sodium chloride

## SECTION 3 – HAZARDS IDENTIFICATION

### SWALLOWED

Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual. Considered an unlikely route of entry in commercial/industrial environments. Small amounts or low dose rates are regarded as practically non-harmful.

### EYE

Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Temporary impairment of vision and/or other transient eye damage/ulceration may occur. The dust may be highly discomforting to the eyes. And is capable of causing pain and severe conjunctivitis. Corneal injury may develop, with possible permanent impairment of vision, if not promptly and adequately treated. The material may produce severe irritation in the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.

### INHALED

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. The dust may be discomforting. to the upper respiratory tract if inhaled.



### **CHRONIC HEALTH EFFECTS**

Principal routes of exposure are usually by inhalation of generated dust and skin contact with the material. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

### **SECTION 4 – FIRST AID MEASURES**

Eye contact: Rinse with water whilst keeping the eyes wide open.

Skin contact: Rinse with plenty of water.

Ingestion: Call a doctor who will decide whether a stomach washout is necessary.

Inhalation: Move the affected person away from the contaminated area and into the fresh Air. Make affected person rest. If necessary, seek medical advice.

### **SECTION 5 – FIRE-FIGHTING MEASURES**

#### **EXTINGUISHING MEDIA:**

There is no restriction on the type of extinguisher which may be used.

#### **FIRE FIGHTING:**

Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use firefighting procedures suitable for surrounding area.

#### **FIRE/EXPLOSION HAZARD: Noncombustible**

Not considered a significant fire risk, however containers may burn. Decomposition will occur at high temperatures and may produce fumes.

#### **FIRE INCOMPATIBILITY:**

In presence of moisture, the material is corrosive to aluminium, zinc and tin producing highly flammable hydrogen gas.

### **SECTION 6 – ACCIDENTAL RELEASE MEASURES**

#### **MINOR SPILLS:**

Clean up all spills immediately.

Avoid contact with skin and eyes.

Wear impervious gloves and safety glasses.

Use dry clean up procedures and avoid generating dust. Sweep up or vacuum up (consider explosion-proof machines designed to be grounded during storage and use).

Place spilled material in clean, dry, sealable, labelled container.

#### **MAJOR SPILLS:**

Clear area of personnel and move upwind.

Alert Fire Brigade and tell them location and nature of hazard.

Wear full body protective clothing with breathing apparatus.

Prevent, by any means available, spillage from entering drains or water course.

Stop leak if safe to do so.

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Contain spill with sand, earth or vermiculite.  
Collect recoverable product into labelled containers for recycling.  
Neutralise/decontaminate residue.

## **SECTION 7 – HANDLING AND STORAGE**

### **PROCEDURE FOR HANDLING**

Avoid generating and breathing dust.  
Wear protective clothing when risk of exposure occurs.  
Use in a well-ventilated area.  
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.

### **STORAGE INCOMPATIBILITY**

Keep dry. Segregate from strong acids.

## **SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Personal protective equipment**

Respiratory protection: Keep respiratory equipment available. If use conditions can generate aerosol or mists, wear suitable respiratory equipment. Wear full face mask.  
Hand protection: Use protective gloves made up of neoprene or nitrile.  
Eye protection: The use of suitable eye protection (goggles) is recommended.  
Skin protection: Normal working clothes. Other protecting equipment: Provide adequate ventilation.

## **SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

Physical Properties	Solid mixes with water.
Molecular Weight:	110.99
Boiling Range (C):	>1600
Melting Range (C):	772
Specific Gravity (water=1):	2.15
Solubility in water (g/L):	Miscible
pH (as supplied):	Not applicable.
pH (1% solution):	Not available
Vapour Pressure (kPa):	Negligible Appearance:

Material is hygroscopic, absorbs moisture from surrounding air. Small white crystals, granules, or flakes. No odour. Soluble in water. Solution in water accompanied by evolution of heat. Soluble in alcohol.



## **SECTION 10 – STABILITY AND REACTIVITY**

### CONDITIONS CONTRIBUTING TO INSTABILITY

Presence of incompatible materials.

Product is considered stable.

Hazardous polymerisation will not occur.

## **SECTION 11 – TOXICOLOGICAL INFORMATION**

### TOXICITY AND IRRITATION

Not available. Refer to individual constituents.

### TOXICITY

Oral (rat) LD50: 1000 mg/kg

## **SECTION 12 – ECOLOGICAL INFORMATION**

No data for Calcium Chloride Powder

Refer to data for ingredients, which follows: CALCIUM CHLORIDE POWDER: Fish LC50 (96hr.) (mg/l): 8.4 (24hr).

## **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.

According to the European Waste Catalogue, Waste Codes are not product specific but application specific.

Waste Codes should be assigned by the User based on the application in which the product is used

## **SECTION 14 – TRANSPORT INFORMATION**

HAZCHEM: None

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

## **SECTION 15 – REGULATIONS INFORMATION**

### ANNEX 1

Ingredient Annex 1 67/548/EEC Calcium Chloride powder 017-013-00-2.

Risk:

Risk Codes

R36

Risk Phrases R22 Harmful if swallowed.

Irritating to eyes.

Safety:

Safety Codes

S22

S25

Safety Phrases

Do not breathe dust.

Avoid contact with eyes.

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S36	Wear suitable protective clothing.
S40	To clear the floor & all objects contaminated by this material use water.
S13	Keep away from food, drinks & animal feeding stuffs.
S46	If swallowed, contact the doctor immediately.

#### Regulations:

Calcium chloride (CAS: 10043-52-4) is found on the following regulatory lists;  
CODEX General Standard for Food Additives (GSFA) - Additives Permitted for Use in Food in General, Unless Otherwise Specified, in Accordance with GMP EU Directive 2002/72/EC Plastic materials and articles intended to come into contact with foodstuffs - Annex III Section A Incomplete list of additives fully harmonized at Community level. European Customs Inventory of Chemical Substances (English) European Inventory of Existing Commercial Substances – EINECS European Union (EU) Inventory of Ingredients used in Cosmetic Products European Union(EU)

List of Dangerous Substances (Annex I) - up to the 29th ATP International Council of Chemical Associations (ICCA)  
- High Production Volume List OECD Representative List of High Production Volume (HPV) Chemicals WHO Guidelines for Drinking-water Quality - Chemicals for which guideline values have not been established. No data available for calcium chloride as CAS: 139468-93-2.

#### **SECTION 16 - OTHER INFORMATION**

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

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