

# Calcium Chloride Pellets 90% min Technical Grade

## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

Zirax UK Limited Via Piave, No 6 57016 Rosignano Livorno, Italy. <a href="mailto:info@zirax.com">info@zirax.com</a> <a href="http://www.zirax.com">www.zirax.com</a>	Substance	Synonyms	Chemical Family	MSDS Creation Date	MSDS Revision Date
	Calcium Chloride	None	Inorganic Salt	10 August 2006	10 August 2011

### 2. Composition, Information on Ingredients

CAS Number	Wt %	Component Name	RTECS Number	Probable Contaminants
10043-52-4	90% min	Calcium Chloride	EV9800000	Calcium Carbonate, Calcium Hydroxide, Calcium Oxide, Alkali Metal Chlorides, Alkaline Earth Metal Chlorides

### 3. Hazards Identification

Emergency Overview	Odorless, white pellets. Causes eye irritation. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Wash thoroughly after handling. Reacts with water to liberate heat.		
Potential Health Effects	Inhalation	Dust may cause irritation to mucous membranes and respiratory system.	
	Skin Contact	May cause irritation	
	Eye Contact	May irritate or burn eyes	
	Ingestion	Ingestion may cause nausea	

### 4. First Aid Measures

Skin: remove contaminated clothing; wash with soap and water.

Eyes: flush with water for 15 minutes.

Inhal: remove to fresh air. Give oxygen or artificial aspiration if needed.

Ingest: get prompt qualified medical attention. If conscious, give 1-2 glasses of water and induce vomiting.

Notes to Physicians: treat symptomatically and supportively.

### 5. Fire Fighting Measures

Flash Point	Not applicable
Extinguishing Media	Water Fog
Fire Fighting	Move container(s) from the fire area if you can without risk. Apply cooling water sides of containers that are exposed to flames until well after fire is out. Extinguish fire using agent suitable for type of surrounding fire and/or chemicals. Do not use water directly on material. Avoid breathing corrosive vapors.
Fire and Explosion Hazard	Negligible fire hazard when exposed to heat or flame
Products of Combustion	Not applicable
Unusual Fire And Explosion Hazards	Heat is generated when product mixed with water

### 6. Accidental Release Measures

**Evacuation and Safety:** † wear appropriate protective gear for the situation.

**Containment of Spill:** † for dry spills place material in covered, clean, dry container for disposal.

**Cleanup and Disposal:** † for dry spills place material in covered, clean, dry container for disposal.

## 7. Handling and Storage

**Handling:** † avoid skin and eye contact and breathing dusts. Wash thoroughly after handling. Launder contaminated clothing before re-use.

Ventilate area. Use proper protective and respiratory equipment. Sweep or vacuum; do not create dust; place in a dry container for disposal. Clean spill area with water.

**Neutralizing Agent:** † not applicable.

**Precautions:** † store in a cool, dry, well-ventilated place. Keep container closed when not in use. Keep away from incompatible materials. Protect from atmospheric moisture.

**Other Precautions:** † empty containers may contain hazardous residue; dispose of properly.

Observe all federal, state, and local regulations when storing this product.

## 8. Exposure Controls/Personal Protection

Engineering Controls	Where environmental controls are lacking or in enclosed spaces use a niosh/msha approved respirator for dust/fumes. Provide local exhaust ventilation system. Eye wash station and safety shower should be provided within the immediate work area for emergency use.
Exposure Limits	No occupational exposure limits established by OSHA/ACGIH/NIOSH.
Eyes	Wear safety glasses with splash shields or safety goggles/shield.
Body	Wear appropriate protective (impervious) clothing. Leather work boots and/or leather products will dehydrate with resultant shrinkage and possible destruction.
Respiratory	A respirator is not indicated under normal operating conditions. Use of a NIOSH approved respirator should be based upon the presence of nuisance dust. When warranted, use a face mask particulate respirator with particulate respirator with a NIOSH N95 rating.
Hands and Feet	Wear appropriate rubber gloves and non-leather protective boots.
Work Hygienic Practices	Use reasonable care in handling this product. Wash hands after use and before eating.

## 9. Stability and Reactivity Data

Stability and Reactivity	Reacts exothermically with water
Hazardous Decomposition	None under normal conditions
Conditions To Avoid (Stability)	None specified by Manufacturer
Materials To Avoid	Strong mineral acids, non- ferrous and ferrous metals
Polymerization	Does not occur under normal temperatures and pressures

## 10. Physical/Chemical Properties

Description	White pellets
Odour	None
Boiling Point	> 1627°C
Melting Point	772°C (1,422 F°)
Molecular weight	110.99
Water Solubility	Very Soluble
Solvent Solubility	Soluble in alcohol, acetic acid and acetone
Bulk Density	Min 700 kg/cub m (50 lb/cub m)
Vapor Pressure	Not Applicable

Flash Point	Not Flammable
Auto Ignition Temperature	Not Flammable
pH	Neutral or slightly alkaline
Incompatibilities	Metals corrode slowly in aqueous calcium chloride solutions
Occupational Exposure	Not Applicable
Hydroscopic	Yes

## 11. Toxicological Information

Toxicity Data:	
DL <sub>50</sub>	2750 mg/kg, oral, rat
ED	2016 mg/kg, oral, 30 days, rat
ED	43 mg/m <sup>3</sup> , inh., 4 hours, 17 weeks, rat
Mutagenic Data and Tumorigenic Data	See Registry of Toxic Effects of Chemical Substances (RTECS) file.
Carcinogen Status	None
Local Effects	Eye, mucous membrane and skin irritant.
Health Effects	Moderately toxic by ingestion, slightly toxic by dermal absorption.

## 12. Ecological Information

Environmental Summary	Degradability
No data available	Product will not biodegrade or accumulate

## 13. Disposal Information

Observe all federal, state, and local regulations when disposing of this substance.

## 14. Regulatory Information

Workplace Classification	
SARA Title III	Section 311: Acute Hazard, Reactivity Hazard
TSCA Status	Yes
EINECS Status	Yes
CERCLA	No
OSHA Process Safety	No
California Proposition 65	No ingredients found on the Proposition 65 list
WHMIS Classification	Not determined

Shipping Name	DOT Name	Not regulated by this mode of transportation
	IMO Name	Not regulated by this mode of transportation
	IATA Name	Not regulated by this mode of transportation
	AFI Name	Not regulated by this mode of transportation
ID Number	Not applicable	
Hazard Class or Division	Not applicable	
Packing Group	Not applicable	
Packing Authorizations	Exceptions	Not applicable
	Non-bulk Packing	Not applicable
Quantity Limitations	Passenger Aircraft or Railcar	Not applicable
	Cargo Aircraft Only	Not applicable
	Vessel Stowage Requirements	Not applicable
	Emergency Guide Number	Not applicable
PSN Codes	IMO	Not applicable
	DOT	Not applicable
	IATA	Not applicable
	AFI	Not applicable
	MMAC	Not applicable
Label Requirements	Label Status	F
	Common Name	CALCIUM CHLORIDE

Signal Word	CAUTION!
Acute Health Hazard-Slight	X

### **15. Transportation Data**

	Contact Hazard-Slight	X
	Fire Hazard	None
	Reactivity Hazard	None
Special Hazard Precautions	INHAL	May cause respiratory irritation. Store in a cool, dry, well-ventilated place. Keep container closed when not in use. Keep away from incompatible materials
		Remove to fresh air. Give oxygen or artificial respiration if needed
	SKIN	May cause irritation and dryness
		Remove contaminated clothing; wash with soap and water
	EYES	May cause irritation
		Flush with water for 15 minutes
INGEST	May cause GI tract irritation	
	Get prompt qualified medical attention. If conscious, give 12 glasses of water and induce vomiting by sticking finger down throat or by giving IPECAC	
Protection	Eyes	YES
	Skin	YES
Label Emergency Number	+ 7 495 730 95 59	

### **16. Other Information**

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. It is the users' responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement. ZIRAX UK Limited reserves the right to refuse shipment of this product to any customer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such demonstration may require on-site inspection of any or all storage, processing, packaging and other handling systems that come in contact with it.