

MATERIAL SAFETY DATA SHEET

Distributed by World Search
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Not classified as hazardous according to the criteria of NOHSC Australia.

I IDENTIFICATION

Product Name: Calcium Chloride Flake/ Granular

Other Names: None.

Product Code: None.

UN No: None

Hazchem Code: None

Dangerous Goods Class: None allocated.

Sub Risk Class: No Subsidiary Risk.

Packaging Group: None

Poison Schedule: Not Scheduled

Product Type: Inorganic solid

Chemical Family: Calcium salt (Anhydrous)

Uses: Desiccating agent; chemical intermediate.

Physical appearance & Properties:

Appearance & Odour: White flaked solid. No odour. Very deliquescent.

Melting/softening point: 772°C

Boiling point and vapour pressure: No data.

Volatile materials: Nil

Flashpoint: Does not burn.

Specific gravity: 2.15

Solubility in water: Very soluble.

Corrosiveness: Not corrosive.

Ingredients:

Chemical entity

CAS No

Proportion

Worksafe Exposure Limits

TWA

STEL

mg/m³

mg/m³

Calcium Chloride

10043-52-4

78

not set

not set

This is a commercial product, and the exact ratio of components may vary. Trace quantities of impurities are also likely. The impurities that make up the extra 26% of the product are unknown.

II HEALTH HAZARD DATA

Health Effects:

No specific data is available for the product for chronic exposure symptoms. The ingredients are not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

Acute Effects:

Both calcium and chloride are required for the maintenance of a healthy body and are thus not of themselves problems in moderate quantities. However, the anhydrous product may act as a dehydrating agent, and most problems are associated with this property.

Swallowed: Data suggests that the product should be considered as harmful by ingestion.

Eye: Data suggests that this product should be classified as a moderate eye irritant. However, permanent eye damage should not be expected.

Skin: Data suggests that product presents medium hazard via skin contact.

Inhalation: Inhalation may cause irritation of the nose and throat and cause coughing and chest discomfort.

Primary route of exposure is inhalation and skin and eye contact.

Oral LD₅₀ (rat) approx 1000mg/kg

First Aid:

Swallowed: If swallowed, do NOT induce vomiting. Rinse mouth with water. Give a glass of water to drink. Contact a doctor or the Poisons Information Centre if symptoms of poisoning develop.

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Eye: If this product comes into contact with eyes, hold eyes open and wash continuously for 15 minutes with running water. Ensure irrigation under eyelids by occasionally lifting eyelids. Do not attempt to remove contact lenses unless trained. Transport to hospital or doctor immediately.

Skin: If this product comes into contact with skin, wash skin with soap and water. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again. Transport to hospital or doctor immediately if irritation develops.

Inhalation: If fumes or combustion products are inhaled, remove to fresh air. Lay victim down & keep warm and rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation or oxygen if available. Transport to hospital or doctor immediately.

Eye wash stations or baths and deluge showers should be available where product is being used.

Advice to doctor: Treat symptomatically. Note the nature of this product.

III PRECAUTIONS FOR USE

Risk Phrases are: R22, R36. Harmful if swallowed. Irritating to eyes.

Exposure Standards:

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Worksafe Australia for any of the ingredients in this product. There is a blanket limit of 10mg/m³ for dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. See ingredients section on page 1 of this data sheet.

Engineering Controls:

Ventilation must be adequate to ensure that the working environment is below the TWA value. Otherwise, use respiratory protection. Some materials should only be used when respiratory protection is being worn. For information on respiratory protection, consult AS1716. See below for further information.

Personal Protection:

Respiratory Protection: A face mask or respirator may be used when the product is being used in dusty or confined areas. Otherwise it is usually safe to not use respiratory protection. However, there may be other circumstances where use of a mask or other device is preferred. Use judgement. For help in selecting suitable equipment consult AS/NZS 1715.

Protective Gloves: Rubber, PVC or other protective gloves are not necessary but are desirable, especially if product is being used frequently or for lengthy periods. For help in selecting suitable gloves consult AS 2161.

Eye Protection: Eye protective measures are not normally necessary, but are suggested when using this product. Consult AS 1336 and AS/NZS 1337 for information about eye protection.

Clothing: Clean overalls should be worn, preferably with an apron. Consult AS 2919 for advice on Industrial Clothing.

Safety Boots: Wearing safety boots would be advisory. Consult AS/NZS 2210 for advice on Occupational Protective Footwear.

Flammability Limits: Does not burn.

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

IV SAFE HANDLING INFORMATION

Safety Phrases are: S22, S24. Do not breathe dust. Avoid contact with skin.

Storage & Transport:

No special requirements. This product does not have a UN classification. The material is hygroscopic, ie absorbs water from the air. Consequently, containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure the material does not come into contact with water or acids.

Spills and disposals:

In event of a major spill, clear area of personnel. Alert fire brigade and advise of nature & location of spill. Wear protective clothing. Prevent spillage from entering drains or water courses. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible. After spills, wash area, preventing runoff from entering drains. This material may be suitable for approved incineration or landfill. Dispose of only in compliance with local, state and federal regulations. Launder all contaminated clothing before re-use.

Fire/Explosion Hazard:

There is no explosion hazard from this material under normal circumstances.

Flashpoint: Does not burn.

Extinguishing Media: Carbon dioxide, dry chemical or foam.

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Special Fire fighting procedures: None.

Unusual fire & Explosion hazards: None.

Stability: Stable.

Polymerisation: Will not polymerise.

Decomposition Products: Calcium oxide, chlorinated materials. Note however that decomposition only takes place at very high temperatures.

Materials to avoid: Strong acids, strong alkalis, strong oxidising agents.

V OTHER INFORMATION

This MSDS is prepared in accord with the Worksafe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets", 1994.

Contact Points:

Police and Fire Brigade:

If ineffective:

National Poisons Information Centre:

Dial

Dial

Dial

AUSTRALIA

000

1100 (Exchange)

13 1126 (from anywhere in Australia)

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER SHOULD READ THIS MSDS AND CONSIDER THE INFORMATION IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE INCLUDING IN CONJUNCTION WITH OTHER PRODUCTS. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY. THE RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

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