

# 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: Potassium Chloride

Other Names: None.

Product Code: None.

UN No: None allocated.

Hazchem Code: None allocated.

Dangerous Goods Class: None allocated.

Sub Risk Class: No Subsidiary Risk.

Packaging Group: None allocated.

Poison Schedule: Not Scheduled.

Product Type: Inorganic solid.

Chemical Family: Inorganic salt.

Uses: Food additive. Chemical intermediate.

### Physical appearance & Properties:

Appearance & Odour: White crystalline solid. No odour.

Melting/softening point: 776°C

Boiling point and vapour pressure: Sublimes about 1500°C

Volatile materials: Nil

Flashpoint: Does not burn.

Solubility in water: 35% at 20°C

Corrosiveness: Not corrosive.

Specific gravity: 1.98 Bulk density 1.07 (loose pour), 1.19 (tapped).

### Ingredients:

Chemical entity

CAS No

Proportion  
%

Worksafe Exposure Limits

TWA<sub>3</sub>  
mg/m<sup>3</sup>

STEL<sub>3</sub>  
mg/m<sup>3</sup>

Sodium chloride

7647-14-5

>99

not set

not set

This is a commercial product, and the exact ratio of components may vary. Trace quantities of impurities are also likely.

## 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:

Swallowed: Data suggests that the product should be considered to be non toxic by ingestion.

Eye: Data suggests that this product should be classified as irritating to the eyes. May cause stinging if contact is not treated promptly.

Skin: Data suggests that the product should be classified as not irritating or harmful to the skin.

Inhalation: Data suggests that the product should be considered to be non irritating and non toxic by inhalation.

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

### First Aid:

If swallowed, do NOT induce vomiting. Give a glass of water.

Eye: If this product comes into contact with eyes, hold open and wash with running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained.

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.

Inhalation: No special measures. Inhalation problems extremely unlikely.

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

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

## III PRECAUTIONS FOR USE

### 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 recommendation of  $10\text{mg}/\text{m}^3$  for inspirable 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:

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

### 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 AS1715.

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.

Eye Protection: Goggles or full face shield should be used when using this product. Failure to do so may result in eye damage if an accident occurs.

Clothing: Clean overalls should be worn, preferably with an apron.

Safety Boots: Wearing safety boots would be advisory.

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

### Storage & Transport:

No special requirements storage and transport requirements. This material has no UN Classification.

Not a Scheduled Poison. Containers should be kept closed in order to minimise contamination. Unconditioned potassium chloride is highly susceptible to caking. Product conditioned with magnesium carbonate is very tolerant to dampness and resistant to caking. However, product should be stored in a dry environment, relatively free of air movement.

### Spills and disposals:

In event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. 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. If material enters drains, advise emergency services.

This material may be suitable for approved 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: Use media suited to burning material.

Special Fire fighting procedures: As a minimum, wear overalls, goggles and gloves.

Unusual fire & Explosion hazards: Heat does not produce any known decomposition products. There is little or no chance of an explosion from this product if involved in a fire.

Stability: Stable.

Polymerisation: Will not polymerise.

Decomposition Products: No known decomposition products.

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.

## MATERIAL SAFETY DATA SHEET

Contact Points:

**Police and Fire Brigade:**

**Dial**

AUSTRALIA

**000**

**If ineffective:**

**Dial**

**1100 (Exchange)**

**National Poisons Information Centre:**

**Dial**

**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.

Please read all labels carefully before using product.