



# SAFETY DATA SHEET

## Potassium Chloride

### 1. Identification of the substance/preparation and of the company/undertaking

#### Identification of the substance or mixture

**Product name** : Potassium Chloride

**Chemical formula** : KCl

**Use of the substance/mixture** : Fertiliser.

#### Company/undertaking identification

**Manufacturer / Supplier** : Yara Australia Pty Ltd  
201 Miller Street, Mezzanine Level  
North Sydney  
NSW 2060 Australia

Tel: +61 2 9959 4266

Fax: +61 2 9959 4050

**e-mail address of person responsible for this SDS** : yaraasiapacific@yara.com

**Emergency telephone number** : +61 4 1722 3075 (24h)

### 2. Hazards identification

The product is not classified as dangerous according to Directive 67/548/EEC and its amendments.

See Section 11 for more detailed information on health effects and symptoms.

### 3. Composition/information on ingredients

**Substance/preparation** : Substance

| Ingredient name   | CAS number | %   | EC number | Classification      |
|---|------------|-----|-----------|---------------------|
| Potassium Chloride  | 7447-40-7  | 100 | 231-211-8 | Not classified. [A] |
| See Section 16 for the full text of the R-phrases declared above. |            |     |           |                     |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

### 4. First-aid measures

**Inhalation** : Avoid breathing dust. If inhaled, remove to fresh air.

**Ingestion** : If large quantities of this material are swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**Skin contact** : Avoid prolonged or repeated contact with skin. After handling, always wash hands thoroughly with soap and water. Get medical attention if irritation develops.

**Eye contact** : In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

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## 4. First-aid measures

See Section 11 for more detailed information on health effects and symptoms.

## 5. Fire-fighting measures

- Extinguishing media** : In case of fire, use water spray (fog), foam or dry chemical.
- Hazardous thermal decomposition products** : These products are halogenated compounds metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## 6. Accidental release measures

- Personal precautions** : Follow all fire-fighting procedures (section 5).
- Environmental precautions and clean-up methods** : Avoid contact of spilt material and runoff with soil and surface waterways.
- : Use a tool to scoop up solid material and place into an appropriate labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Keep out of waterways. See section 13 for waste disposal information.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Avoid creating dusty conditions and prevent wind dispersal. Avoid all possible sources of ignition (spark or flame). Avoid contamination by any source including metals, dust and organic materials.
- Storage** : Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with combustible materials.
- Packaging materials Recommended** : Use original container.

## 8. Exposure controls/personal protection

**Occupational exposure limits** : Total inhalable dust - 10 mg/m<sup>3</sup>

Respirable dust - 5 mg/m<sup>3</sup>

### Exposure controls

**Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Eye protection** : Use dust goggles if high dust concentration is generated.

**Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

## 9. Physical and chemical properties

### General information

#### Appearance

Physical state : Solid.

### Important health, safety and environmental information

Melting/freezing point : 773°C

Density (g/cm<sup>3</sup>) : 1,987 g/cm<sup>3</sup>

## 10. Stability and reactivity

Stability : Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products : These products are halogenated compounds metal oxide/oxides

## 11. Toxicological information

### Potential acute health effects

May cause eye and skin irritation.

Adverse health effects are considered unlikely, when the product is used according to directions.

| Product/ingredient name | Result    | Species    | Dose       | Exposure | References |
|-------------------------|-----------|------------|------------|----------|------------|
| Potassium Chloride      | LD50 Oral | Rat        | 2600 mg/kg | -        |            |
|                         | LD50 Oral | Mouse      | 1500 mg/kg | -        |            |
|                         | LDLo Oral | Guinea pig | 2500 mg/kg | -        |            |
|                         | LDLo Oral | Man        | 20 mg/kg   | -        |            |

### Potential chronic health effects

Chronic effects : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Inhalation : No specific data.

Ingestion : No specific data.

Skin : No specific data.

Eyes : No specific data.

## 12. Ecological information

Environmental effects : No known significant effects or critical hazards.

### Aquatic ecotoxicity

| Product/ingredient name | gggbh | Result                 | Species | Exposure | References |
|-------------------------|-------|------------------------|---------|----------|------------|
| Potassium Chloride      |       | Acute EC50 141,46 mg/L | Daphnia | 48 hours | -          |
|                         |       | Acute LC50 880 mg/L    | Fish    | 96 hours | -          |
|                         |       | Acute LC50 2010 mg/L   | Fish    | 96 hours | -          |

Other adverse effects : No known significant effects or critical hazards.

## 13. Disposal considerations

- Methods of disposal** : Empty containers or liners may retain some product residues. Do not empty into drains; dispose of this material and its container in a safe way. Dispose of in accordance with all applicable local and national regulations
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC..

## 14. Transport information

Not regulated.

Not classified as hazardous material according to UN Orange Book and international transport codes e.g. ADR (road), RID (rail), ADN (inland waterways) and IMDG (sea).

## 15. Regulatory information

### EU regulations

- Risk phrases** : This product is not classified according to EU legislation.
- Contains EINECS number** : Potassium Chloride 231-211-8
- Product use** : Industrial applications.
- Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.
- Europe inventory** : This material is listed or exempted.

## 16. Other information

- References** : Regulation (EC) No 1272/2008 Annex VI  
EU REACH IUCLID5 CSR  
National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda  
Registry of Toxic Effects of Chemical Substances  
Atrion International Inc. 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada

### History

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- Date of issue/Date of revision** : 10/12/2010.
- Date of previous issue** : 04/11/2005.
- Version** : 2
- Prepared by** : Yara Product Classification and Regulations

 Indicates information that has changed from previously issued version.

### Notice to reader

*To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may represent unknown hazards and should be used with caution. Yara International ASA disclaims any liability for loss or damage resulting from the use of any data, information or recommendations set out in this Safety Data Sheet.*