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| Infosafe No™ 1CHBH | Issue Date : November 2022 | RE-ISSUED by CHEMSUPP |
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 Product Name **POTASSIUM FLUORIDE**

Classified as hazardous

## Section 1 - Identification

|  |   |             |                     |                       |       |
|--|---|-------------|---------------------|-----------------------|-------|
| <b>Product Identifier</b>                                      | POTASSIUM FLUORIDE  |             |                     |                       |       |
| <b>Company Name</b>  | CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)   |             |                     |                       |       |
| <b>Address</b>   | 38 - 50 Bedford Street GILLMAN<br>SA 5013 Australia   |             |                     |                       |       |
| <b>Telephone/Fax Number</b>                                    | Tel: (08) 8440-2000   |             |                     |                       |       |
| <b>Emergency Phone Number</b>                                  | CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)  |             |                     |                       |       |
| <b>E-mail Address</b>  | www.chemsupply.com.au   |             |                     |                       |       |
| <b>Recommended use of the chemical and restrictions on use</b> | Etching glass, insecticide, pesticides, preservative, silver soldering flux, welding and soldering agents, electrolyte for enamels and glazes, in organic synthesis as a catalyst for various reactions or to introduce fluorine into organic molecules, manufacture of fluorine, and laboratory reagent. |             |                     |                       |       |
| <b>Other Names</b>   | <table border="0" style="width: 100%;"> <tr> <td style="width: 70%;"><u>Name</u></td> <td style="width: 30%;"><u>Product Code</u></td> </tr> <tr> <td>POTASSIUM FLUORIDE AR</td> <td>PA090</td> </tr> </table>  | <u>Name</u> | <u>Product Code</u> | POTASSIUM FLUORIDE AR | PA090 |
| <u>Name</u>  | <u>Product Code</u>   |             |                     |                       |       |
| POTASSIUM FLUORIDE AR  | PA090   |             |                     |                       |       |

### Other Information

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

## Section 2 - Hazard(s) Identification

|  |   |
|--|---|
| <b>GHS Classification of the Substance/Mixture</b> | Acute Toxicity - Dermal: Category 3<br>Acute Toxicity - Inhalation: Category 3<br>Acute Toxicity - Oral: Category 3 |
| <b>Signal Word</b>                                 | DANGER  |

|                             |  |
|-----------------------------|--|
| <b>Hazard Statement (s)</b> | H301 Toxic if swallowed.<br>H311 Toxic in contact with skin.<br>H331 Toxic if inhaled. |
|-----------------------------|--|

|                      |                      |
|----------------------|----------------------|
| <b>Pictogram (s)</b> | Skull and crossbones |
|----------------------|----------------------|



|   |  |
|---|--|
| <b>Precautionary Statement – Prevention</b> | P261 Avoid breathing dust.<br>P264 Wash thoroughly after handling.<br>P271 Use only outdoors or in a well-ventilated area.<br>P280 Wear protective gloves/protective clothing/eye protection/face protection.  |
| <b>Precautionary Statement – Response</b>   | P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.<br>P330 Rinse mouth.<br>P302+P352 IF ON SKIN: Wash with plenty of soap and water.<br>P312 Call a POISON CENTER or doctor/physician if you feel unwell.<br>P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>P311 Call a POISON CENTER or doctor/physician. |

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| <b>Precautionary Statement – Storage</b>  | P361 Remove/Take off immediately all contaminated clothing.<br>P363 Wash contaminated clothing before reuse.<br>P403+P233 Store in a well-ventilated place. Keep container tightly closed.<br>P405 Store locked up. |
| <b>Precautionary Statement – Disposal</b> | P501 Dispose of contents/container according to local, state and federal regulations.   |

### Section 3 - Composition and Information on Ingredients

| Ingredients | Name               | CAS       | Proportion |
|-------------|--------------------|-----------|------------|
|             | Potassium fluoride | 7789-23-3 | 100 %      |

### Section 4 - First Aid Measures

|                                    |   |
|------------------------------------|---|
| <b>Inhalation</b>                  | If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Consult a physician.   |
| <b>Ingestion</b>                   | Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.   |
| <b>Skin</b>                        | Wash skin with water using soap if available. Contaminated clothing must be removed as soon as possible. It must be relandered before reuse. Seek immediate medical advice.   |
| <b>Eye</b>                         | If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical assistance.   |
| <b>First Aid Facilities</b>        | Eye wash station, safety shower and normal washroom facilities.   |
| <b>Advice to Doctor</b>            | Consult Poisons Information Centre.<br>Potassium fluoride forms hydrofluoric acid upon contact with acid, such as stomach acid. The symptoms that follow the ingestion of soluble fluorides by man are listed in the order of diminishing frequency of occurrence: vomiting, abdominal pain, diarrhoea, convulsions, generalised and muscular weakness, collapse, dyspnea, paresis, difficulty in articulation, thirst, weakness of the pulse, disturbed colour vision, loss of consciousness, and motor unrest. Albuminuria is frequently present. Acute toxic nephritis, haemorrhagic gastroenteritis, and more or less definite pathologic damage to other organs are found on examination. The calcium content of the blood is reduced following the ingestion of large amounts of fluorides. Fluoride acts as an inhibitor of certain intracellular enzymes concerned in the anerobic glucolysis of many types of cells, plant as well as mammalian. It interferes with enzymes concerned with the conversion of phosphoglyceric to phosphopyruvic acids, an essential link in the chain of reactions. A number of other enzymes, particularly those concerned with processes of phosphorylation, are also affected by the fluoride ion. |
| <b>Protection for First Aiders</b> | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.  |
| <b>Other Information</b>           | For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor at once.  |

### Section 5 - Firefighting Measures

|   |   |
|---|---|
| <b>Hazards from Combustion Products</b>           | Irritating and highly toxic gases, fumes and vapours of potassium oxide, fluoride and hydrogen fluoride (HF). |
| <b>Specific Methods</b>                           | Use dry chemical, alcohol-resistant foam, CO2 or water spray.   |
| <b>Specific Hazards Arising from the Chemical</b> | Material does not burn. Fire or heat will produce irritating, poisonous and/or corrosive gases.               |
| <b>Hazchem Code</b>                               | 2X  |

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**Precautions in connection with Fire** Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.

## Section 6 - Accidental Release Measures

**Personal Precautions** Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms. Evacuate the area of all non-essential personnel.

**Personal Protection** Wear protective clothing specified for normal operations (see Section 8)

**Clean-up Methods - Small Spillages** Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

**Environmental Precautions** Prevent from entering into drains, ditches, rivers or the sea.

## Section 7 - Handling and Storage

**Precautions for Safe Handling** Avoid ingestion and inhalation of dust. Avoid contact with skin, eyes, and clothing. Minimize dust generation and accumulation. Keep container closed. Use only in a chemical fume hood. Use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Under no circumstances eat, drink or smoke while handling this material. Keep container dry. Never add water to this product. Keep away from incompatibles such as acids. May corrode glass.

**Conditions for safe storage, including any incompatibilities** Store in tightly closed containers, in a cool, dry, well-ventilated area away from incompatible substances. Protect from physical damage, direct sunlight and moisture. Isolate from acids and alkalis. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product. For information on the design of the store-room reference should be made to AS/NZS 4452: The storage and handling of toxic substances. Store in an appropriate container. May corrode glass.

**Corrosiveness** Aqueous solution corrodes glass and porcelain.

**Storage Regulations** Refer Australian Standard AS/NZS 4452:1997 'The storage and handling of toxic substances'.

**Storage Temperatures** Store at room temperature (15 to 25 °C recommended).

**Recommended Materials** May be stored in aluminium containers.

**Unsuitable Materials** Ceramic, glass.

## Section 8 - Exposure Controls and Personal Protection

**Other Exposure Information** A time weighted average (TWA) has been established for Fluorides (as F) (Safe Work Australia) of 2.5 mg/m<sup>3</sup>. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.

**Engineering Controls** In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.

**Respiratory Protection** Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

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| <b>Eye and Face Protection</b>       | The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.  |
| <b>Hand Protection</b>               | Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Excellent: Nitrile rubber gloves Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste. |
| <b>Personal Protective Equipment</b> | Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.   |
| <b>Footwear</b>                      | Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.  |
| <b>Body Protection</b>               | Clean clothing or protective clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.  |
| <b>Hygiene Measures</b>              | Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.  |

## Section 9 - Physical and Chemical Properties

|   |   |
|---|---|
| <b>Form</b>   | Solid   |
| <b>Appearance</b>   | White or colourless cubic crystals or crystalline, deliquescent powder.                                     |
| <b>Odour</b>  | Odourless.  |
| <b>Melting Point</b>                                      | 858 °C  |
| <b>Boiling Point</b>                                      | 1505 °C   |
| <b>Solubility in Water</b>                                | Soluble in cold water; very freely soluble in boiling water (92.3 g/100 ml @ 18 °C; 96.4 g/100 ml @ 21 °C). |
| <b>Solubility in Organic Solvents</b>                     | Soluble in hydrogen fluoride, liquid ammonia. Insoluble in alcohol unless water is present.                 |
| <b>Specific Gravity</b>                                   | 2.48  |
| <b>pH</b>   | 7 - 9 at 50 g/l and 18 °C   |
| <b>Vapour Pressure</b>                                    | ca. 1.3 hPa at 885 °C: 1 mm Hg at 885 °C.   |
| <b>Relative Vapour Density (Air=1)</b>                    | 2.0   |
| <b>Volatile Component</b>                                 | 0 %vol @ 21 °C  |
| <b>Partition Coefficient: n-octanol/water (log value)</b> | log Pow: -0.77 (calculated)   |
| <b>Flammability</b>                                       | Non combustible material.   |
| <b>Explosion Properties</b>                               | Not explosive.  |
| <b>Molecular Weight</b>                                   | 58.10   |
| <b>Oxidising Properties</b>                               | No oxidizing properties.  |
| <b>Other Information</b>                                  | Taste: Sharp saline taste.  |

## Section 10 - Stability and Reactivity

|   |   |
|---|---|
| <b>Chemical Stability</b>                 | Stable under ordinary conditions of use and storage. Hygroscopic: absorbs moisture or water from the air. Sensitive to moisture.                          |
| <b>Possibility of Hazardous Reactions</b> | Absorbs moisture from the air. Reacts with strong acids/acids to form hydrogen fluoride, a severe tissue corrosive. Attacks glass and porcelain.          |
| <b>Conditions to Avoid</b>                | Dust generation, excess heat, exposure to moisture/moist air, and incompatible materials.   |
| <b>Incompatible Materials</b>             | Acids/strong acids (forms toxic hydrogen fluoride), strong oxidising agents, alkalis/strong bases, glass, porcelain, platinum plus bromine trifluoride at |

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| <b>Hazardous Decomposition Products</b> | 280 °C; quinine salts and soluble calcium salts.<br>Irritating and highly toxic gases, fumes and vapours of potassium oxide, fluoride and hydrogen fluoride (HF). |
| <b>Hazardous Polymerization</b>         | Will not occur.   |

## Section 11 - Toxicological Information

**Acute Toxicity - Oral** LD50 (rat): 245 mg/kg.

**Ingestion** Toxic if swallowed. May cause severe irritation of the gastrointestinal tract with burns to mouth, throat, stomach and digestive tract, epigastric pain, nausea, dysphagia, salivation, hematemesis, and diarrhoea. These effects may be delayed for several hours. GI symptoms can develop following fluoride ingestions of 3 mg/kg or more. It is easily absorbed through the gastrointestinal tract. In most instances, gastrointestinal signs and symptoms predominate. Other effects include headache, numbness, carpedal spasm, tremors, shallow respiration, nervousness, Central Nervous System depression, dizziness, loss of coordination, muscle weakness, breathing difficulty, difficulty speaking, motor unrest, agitation, thirst, weak pulse, disturbed colour vision, convulsions and coma, collapse, loss of consciousness, shock, brain and kidney damage. Cardiac dysrhythmias consistent with hyperkalemia may be noted. Fatal cardiac arrest occurred in several patients with renal failure exposed to fluoride during hemodialysis. QT prolongation secondary to hypocalcemia can occur following fluoride toxicity. Respirations are first stimulated then depressed. May produce increase of hepatic enzymes. Hyperkalemia and hypomagnesemia may occur following fluoride toxicity. Hypocalcemia (reduced calcium levels) is likely to develop with acute exposure, and can be fatal. Hyperactive reflexes, painful muscle spasms, weakness and tetanic contractures may be noted due to fluoride induced hypocalcemia. The following applies to soluble inorganic fluorides in general: Caustic. Following massive overdoses, material probably reacts with gastric acid to produce highly corrosive HF which may cause the nausea, vomiting, diarrhoea, abdominal pain, and acute hemorrhagic gastroenteritis. In severe poisonings, hypotension, dysrhythmias, fever and labored breathing may develop. Death usually results from cardiac failure or respiratory muscle paralysis.

**Inhalation** May be fatal by inhalation. Causes respiratory tract and mucous membrane irritation with possible burns. Irritation and burning effects may not appear immediately. Symptoms may include burning pain in the nose and throat, coughing, wheezing, choking, sore throat, labored breathing, shortness of breath, pulmonary oedema. May be absorbed through inhalation of dust; symptoms may parallel those from ingestion exposure. Inhalation of large amounts may be fatal as a result of spasm, inflammation, oedema of the larynx and bronchi, chemical pneumonitis and pulmonary oedema. Repeated exposure to dusts may lead to fluorosis and skeletal changes.

**Skin** Harmful through skin contact and if absorbed through the skin. Causes severe skin irritation and possible burns to eyes, skin and mucous membranes. Urticaria and pruritus have been reported following dermal exposure to fluoride. May be absorbed through the skin. Effects may not appear immediately.

**Eye** Corrosive to eyes. Causes eye irritation, which may be severe, with possible burns. Permanent eye damage may result. Exposure to particulates or solution may cause conjunctivitis, ulceration, and corneal abnormalities. Risk of corneal clouding.

**Carcinogenicity** Fluorides (inorganic, used in drinking-water) is evaluated in the IARC Monographs (Vol. 27, Suppl.7; 1987) as Group 3: Not classifiable as to carcinogenicity to humans.

**Reproductive Toxicity** May cause adverse reproductive effects. May cause damage to the embryo or foetus. Adverse reproductive effects have occurred in experimental animals. Prenatal fluoride supplementation (2.2 mg NaF or 1 mg fluoride daily) during the last two trimesters of pregnancy has been reported to be safe.

**Mutagenicity** May affect genetic material (mutagenic). Mutagenic effects have occurred in

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experimental animals. Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast.  
Fluoride (CAS # 16984-48-8): DNA inhibition system-mouse: fibroblast 1300 mmol/l ('Dangerous Properties of Industrial Materials', 7th Ed., by N. Irving Sax and Richard J. Lewis).

**Chronic Effects** Chronic exposure causes damage to the mucous membranes, skin, eyes, lens or cornea and may cause damage to the kidneys, the nervous system, heart, gastrointestinal tract, bones, central nervous system (CNS) and teeth. Prolonged or repeated inhalation may cause sores in the inner nose. Prolonged or repeated inhalation, ingestion and exposure to dusts may lead to fluorosis and skeletal changes. Signs and symptoms of fluorosis include general ill health, nausea, vomiting, loss of appetite, diarrhoea, constipation, brittle bones, weight loss, anaemia, calcified ligaments and tendons, joint stiffness, weakness, teeth discolouration, damage to bone marrow and other crippling changes. Can also result in osteosclerosis (an increase of bone density in characteristic patterns).

### Section 12 - Ecological Information

**Persistence and Degradability** Methods for the determination of biodegradability are not applicable to inorganic substances.

**Environmental Protection** Do not allow to enter waters, waste water, or soil!

### Section 13 - Disposal Considerations

**Disposal Considerations** Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

### Section 14 - Transport Information

**Transport Information** Dangerous Goods of Class 6 (Toxic and Infectious Substances) are incompatible in a placard load with any of the following: -Class 1, Class 3, if the Class 3 dangerous goods are nitromethane, Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids; and are incompatible with food and food packaging in any quantity.

**ADG UN Number** 1812

**ADG Proper Shipping Name** POTASSIUM FLUORIDE

**ADG Transport Hazard Class** 6.1

**ADG Packing Group** III

**Hazchem Code** 2X

**EPG Number** 6.1.015

**IERG Number** 37

**Environmental Hazards** Harmful effect due to pH shift. Forms toxic and corrosive mixtures with water even if diluted. The following applies to inorganic fluorides in general: Hazard from drinking water.

### Section 15 - Regulatory Information

**Regulatory Information** Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

**Poisons Schedule** S6

### Section 16 - Any Other Relevant Information

**Literature References** 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.  
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'  
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'.

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Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.  
Safe Work Australia, 'Hazardous Chemical Information System'.  
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'.  
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

**Contact Person/Point** Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

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**Empirical Formula  
& Structural  
Formula**

KF

...End Of MSDS...

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