



# SAFETY DATA SHEET

This safety data sheet complies with the requirements of: WHS regulation 2011

**Product name** Ansul R-102 Flushing Concentrate

**Revision date** 20-Jun-2024

**Revision Number** 2

## Section 1: Identification

### Product identifier

**Product name** Ansul R-102 Flushing Concentrate

**Product code** GFN1070-2-002

### Other means of identification

**Proper shipping name** Corrosive liquid, basic, inorganic, n.o.s.(Potassium carbonate mixture)

**UN number or ID number** UN3266

**Pure substance/mixture** Mixture

### Recommended use of the chemical and restrictions on use

**Recommended use** Fire extinguishing agent.

**Uses advised against** Consumer use.

### Details of manufacturer or importer

#### **Manufacturer**

Johnson Controls  
Level 3, 95 Coventry Street  
Southbank  
Australia-Victoria 3006  
+613 9313 9711

For further information, please contact

**E-mail address** psra@jci.com

### Emergency telephone number

Emergency Telephone Number 612 9037 2994 ( Australia)

## Section 2: Hazard(s) identification

### GHS Classification

|   |                           |
|---|---------------------------|
| <b>Skin corrosion/irritation</b>                        | Category 1 Sub-category B |
| <b>Serious eye damage/eye irritation</b>                | Category 1                |
| <b>Specific target organ toxicity — single exposure</b> | Category 3                |

### Label elements

Exclamation mark  
Corrosion

**Signal word**

DANGER

**Hazard statements**

Causes severe skin burns and eye damage  
May cause respiratory irritation

**Precautionary Statements - Prevention**

Do not breathe dust/fume/gas/mist/vapours/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/clothing and eye/face protection  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician  
Specific treatment (see supplemental first aid instructions on this label)  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a POISON CENTER or doctor/physician  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
Wash contaminated clothing before reuse  
IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Immediately call a POISON CENTER or doctor/physician  
Call a POISON CENTER or doctor/physician if you feel unwell  
IF SWALLOWED: rinse mouth. Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up  
Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards which do not result in classification**

May be harmful if swallowed.

**Section 3: Composition and information on ingredients****Substance**

Not applicable.

**Mixture**

| Chemical name       | CAS No.  | Weight-% |
|---------------------|----------|----------|
| Potassium carbonate | 584-08-7 | 30 - 40% |
| Potassium Acetate   | 127-08-2 | 10 - 20% |

|                           |             |         |
|---------------------------|-------------|---------|
| Non-hazardous ingredients | Proprietary | Balance |
|---------------------------|-------------|---------|



## Section 4: First aid measures

### Description of first aid measures

|   |   |
|---|---|
| <b>General advice</b>                     | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.   |
| <b>Emergency telephone number</b>         | Poisons Information Centre, Australia: 13 11 26<br>Poisons Information Centre, New Zealand: 0800 764 766  |
| <b>Inhalation</b>                         | Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention. |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.   |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.  |
| <b>Ingestion</b>                          | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.  |
| <b>Self-protection of the first aider</b> | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Wear personal protective clothing (see section 8).  |

### Most important symptoms and effects, both acute and delayed

|                            |                           |
|----------------------------|---------------------------|
| <b>Symptoms</b>            | Burning sensation.        |
| <b>Effects of Exposure</b> | No information available. |

### Indication of any immediate medical attention and special treatment needed

|                        |   |
|------------------------|---|
| <b>Note to doctors</b> | Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. |
|------------------------|---|

## Section 5: Firefighting measures

### Suitable Extinguishing Media

|                                       |   |
|---------------------------------------|---|
| <b>Suitable extinguishing media</b>   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| <b>Large Fire</b>                     | CAUTION: Use of water spray when fighting fire may be inefficient.                                      |
| <b>Unsuitable extinguishing media</b> | Do not scatter spilled material with high pressure water streams.                                       |



**Specific hazards arising from the chemical**

**Specific hazards arising from the chemical** The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours.

**Hazardous combustion products** Carbon oxides.

**Special protective actions for fire-fighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**Hazchem code** 2X

**Section 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labelled containers.

**Precautions to prevent secondary hazards**

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**Section 7: Handling and storage**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Avoid breathing vapours or mists.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

**Conditions for safe storage, including any incompatibilities**

|                               |  |
|-------------------------------|--|
| <b>Storage Conditions</b>     | Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials. |
| <b>Incompatible materials</b> | Acids. Bases. Oxidising agent.   |

**Section 8: Exposure controls and personal protection****Control parameters**

|                        |   |
|------------------------|---|
| <b>Exposure Limits</b> | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
|------------------------|---|

|  |   |
|--|---|
| <b>Biological occupational exposure limits</b> | This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies |
|--|---|

**Appropriate engineering controls**

|                             |   |
|-----------------------------|---|
| <b>Engineering controls</b> | Showers<br>Eyewash stations<br>Ventilation systems. |
|-----------------------------|---|

**Individual protection measures, such as personal protective equipment**

|  |  |
|--|--|
| <b>Eye/face protection</b>             | No special protective equipment required.  |
| <b>Skin and Body Protection</b>        | Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact          |
| <b>Respiratory Protection</b>          | In case of insufficient ventilation, wear suitable respiratory equipment Wear a respirator conforming to EN 140 with Type A filter or better |
| <b>Ventilation</b>                     | Use local exhaust or general dilution ventilation to control exposure within applicable limits.  |
| <b>Hand protection</b>                 | No special protective equipment required.  |
| <b>Environmental exposure controls</b> | No information available.  |
| <b>Thermal hazards</b>                 | No information available.  |

**Section 9: Physical and chemical properties****Information on basic physical and chemical properties**

|                        |                          |
|------------------------|--------------------------|
| <b>Physical state</b>  | Liquid                   |
| <b>Appearance</b>      | No information available |
| <b>Colour</b>          | yellow                   |
| <b>Odour</b>           | Vinegar.                 |
| <b>Odour threshold</b> | No information available |



| <u>Property</u>                         | <u>Values</u>            | <u>Remarks • Method</u> |
|---|--------------------------|-------------------------|
| pH                                      | 12.5 - 13.5              |                         |
| Melting point / freezing point          | No data available        | None known              |
| Initial boiling point and boiling range | > 100 °C                 |                         |
| Flash point                             | No data available        |                         |
| Evaporation rate                        | No data available        | None known              |
| Flammability                            | No data available        | None known              |
| Flammability Limit in Air               |                          | None known              |
| Upper flammability or explosive limits  | No data available        |                         |
| Lower flammability or explosive limits  | No data available        |                         |
| Vapour pressure                         | No data available        | None known              |
| Relative vapour density                 | No data available        | None known              |
| Relative density                        | No data available        | None known              |
| Water solubility                        | No data available        | None known              |
| Solubility(ies)                         | No data available        | None known              |
| Partition coefficient                   | No data available        | None known              |
| Autoignition temperature                | No data available        | None known              |
| Decomposition temperature               | No data available        | None known              |
| Kinematic viscosity                     | No data available        | None known              |
| Dynamic viscosity                       | No data available        | None known              |
| <u>Other information</u>                |                          |                         |
| VOC content                             | No information available |                         |
| Particle characteristics                | No information available |                         |

## Section 10: Stability and reactivity

### Reactivity

Reactivity No information available.

### Chemical stability

Stability Stable under normal conditions.

### Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

### Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Hazardous polymerisation Hazardous polymerisation does not occur.

### Conditions to avoid

Conditions to avoid Exposure to air or moisture over prolonged periods.

### Incompatible materials

Incompatible materials Acids. Bases. Oxidising agent.

**Hazardous decomposition products**

**Hazardous decomposition products** Carbon oxides. Oxygen. Potassium.

**Section 11: Toxicological information****Information on likely routes of exposure****Product Information**

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract. |
| <b>Eye contact</b>  | Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.  |
| <b>Skin contact</b> | Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components). Corrosive. Causes burns.  |
| <b>Ingestion</b>    | Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.          |
| <b>Symptoms</b>     | Redness. Burning. May cause blindness. Coughing and/ or wheezing.  |

**Acute toxicity****Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                |
|--------------------------------------|----------------|
| <b>ATEmix (oral)</b>                 | 4,448.30 mg/kg |
| <b>ATEmix (dermal)</b>               | 6,037.70 mg/kg |
| <b>ATEmix (inhalation-dust/mist)</b> | 12.90 mg/l     |

**Component Information**

| Chemical name       | Oral LD50            | Dermal LD50              | Inhalation LC50           |
|---------------------|----------------------|--------------------------|---------------------------|
| Potassium carbonate | = 1870 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit )  | > 4.96 mg/L ( Rat ) 4.5 h |
| Potassium Acetate   | = 3250 mg/kg ( Rat ) | > 20000 mg/kg ( Rabbit ) | -                         |

See section 16 for terms and abbreviations

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes severe skin burns and eye



damage.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye damage. Causes burns.

**Respiratory or skin sensitisation** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** May cause respiratory irritation.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

## Section 12: Ecological information

### Ecotoxicity

**Aquatic ecotoxicity** The environmental impact of this product has not been fully investigated.

**Unknown aquatic toxicity** 0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

| Chemical name       | Algae/aquatic plants | Fish                                       | Toxicity to microorganisms | Crustacea                                |
|---------------------|----------------------|--|----------------------------|--|
| Potassium carbonate | -                    | -  | -                          | LC50: =630mg/L (48h, Ceriodaphnia dubia) |
| Potassium Acetate   | -                    | LC50: =6800mg/L (96h, Oncorhynchus mykiss) | -                          | -  |

**Terrestrial ecotoxicity** There is no data for this product.

### Persistence and degradability

**Persistence and degradability** No information available.

**Bioaccumulative potential**

**Bioaccumulation** There is no data for this product.

**Mobility**

**Mobility** No information available.

**Other adverse effects**

**Other adverse effects** No information available.

**Section 13: Disposal considerations****Disposal methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

*See section 8 for more information*

**Section 14: Transport information****ADG**

**UN number or ID number** UN3266  
**UN proper shipping name** Corrosive liquid, basic, inorganic, n.o.s.  
**Transport hazard class(es)** 8  
**Packing group** II  
**Special Provisions** 274  
**Description** UN3266, Corrosive liquid, basic, inorganic, n.o.s.(Potassium carbonate mixture), 8, II  
**Limited quantity (LQ)** 1 L  
**Hazchem code** 2X

**IATA**

**UN number or ID number** UN3266  
**UN proper shipping name** Corrosive liquid, basic, inorganic, n.o.s.  
**Transport hazard class(es)** 8  
**Packing group** II  
**ERG Code** 8L  
**Special Provisions** A3, A803  
**Description** UN3266, Corrosive liquid, basic, inorganic, n.o.s.(Potassium carbonate mixture), 8, II

**IMDG**

**UN number or ID number** UN3266  
**UN proper shipping name** Corrosive liquid, basic, inorganic, n.o.s.  
**Transport hazard class(es)** 8  
**Packing group** II  
**EmS-No** F-A, S-B  
**Special Provisions** 274  
**Marine pollutant** NP  
**Description** UN3266, Corrosive liquid, basic, inorganic, n.o.s.(Potassium carbonate mixture), 8, II

**Transport in bulk according to Annex II of MARPOL and the IBC Code**



No information available

## Section 15: Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

##### Australia

See section 8 for national exposure control parameters

#### **Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)**

Classified as a scheduled poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

**Poison Schedule Number** 10

#### **Australian Industrial Chemicals Introduction Scheme (AICIS)**

| Chemical name                  | Australian Industrial Chemicals Introduction Scheme (AICIS) | Additional information |
|--------------------------------|---|------------------------|
| Potassium carbonate - 584-08-7 | Present   | -                      |
| Potassium Acetate - 127-08-2   | Present   | -                      |

#### **Illicit Drug Precursors/Reagents**

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

#### International Inventories

|                      |          |
|----------------------|----------|
| <b>AIIC</b>          | Complies |
| <b>NZIoC</b>         | Complies |
| <b>TSCA</b>          | Complies |
| <b>DSL/NDSL</b>      | Complies |
| <b>EINECS/ELINCS</b> | Complies |
| <b>ENCS</b>          | Complies |
| <b>IECSC</b>         | Complies |
| <b>KECL</b>          | Complies |
| <b>PICCS</b>         | Complies |

#### **Legend:**

**AIIC** - Australian Inventory of Industrial Chemicals

**NZIoC** - New Zealand Inventory of Chemicals

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**Section 16: Other information**

**Revision date** 20-Jun-2024

**Revision Note**

\*\*\*Indicates updated data since last publication.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

Legend Section 8: Exposure controls/personal protection

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |
| C       | Carcinogen                  |      |                                  |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGl(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
Australian Industrial Chemicals Introduction Scheme (AICIS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text**

**End of Safety Data Sheet**