



# Safety Data Sheet

according to WHS Regulations

Printing date 01.03.2022

Revision: 01.03.2022

## 1 Identification

**Product Name: Sangral® Potassium Nitrate (14-0-38-0)****Substance Name:** Potassium Nitrate**Other Means of Identification:** Substance**Recommended Use of the Chemical and Restriction on Use:**

Recommended Use: Formulation of preparations, Intermediate, Heat transfer agent, Fertilisers

Restrictions on Use: Food/feedstuff additives, Water treatment chemicals

**Details of Manufacturer or Importer:**

Australand Agriculture Pty. Ltd.

21 / 110 Inspiration Drive

Wangara, WA 6065

**Phone Number:** +61 8 93039638**Emergency telephone number:** National Poisons Information Centre: 13 11 26

## 2 Hazard(s) Identification

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Flame over circle

Oxidising Solids 3 H272 May intensify fire; oxidizer.

**Signal Word** Warning**Hazard Statements**

H272 May intensify fire; oxidizer.

**Precautionary Statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

## 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures****Description:** Substance listed below with impurities and nonhazardous additions.**Hazardous Components:**

CAS: 7757-79-1	Ingredient	Hazard	Concentration
	Potassium nitrate	Oxidising Solids 3, H272	>95%
	Boron (as impurity)		≤0.02%
	Perchlorate (as impurity)		≤0.005%

## 4 First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

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**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with plenty of water. Seek medical attention if symptoms occur.

**Eye Contact:**

In case of eye contact, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if symptoms persist.

**Ingestion:**

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.

**Information for Doctor:** Treat symptomatically.

**Symptoms Caused by Exposure:**

Inhalation: May cause respiratory irritation.

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

## 5 Fire Fighting Measures

**Suitable Extinguishing Media:**

Use fire extinguishing methods suitable to surrounding conditions. Water spray for small fires. For large fires, flood with abundant water.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include nitrogen oxides, potassium oxide, toxic fumes and corrosive vapours. Product is non-flammable. Product is an oxidiser and may intensify a fire.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Minimise run-off from fire fighting entering drains or water courses.

HAZCHEM Code: 1Z

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

## 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Take up mechanically (sweeping, shovelling) and place into a suitable container for disposal. Do not absorb solutions with saw-dust or other combustible absorbent materials.

## 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

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**Product Name: Sangral® Potassium Nitrate (14-0-38-0)**

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**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area. Keep in original container, tightly closed when not in use. Protect from heat, hot surfaces, sparks, open flames and other sources of ignition. Keep away from flammable or combustible materials, reducing agents and strong acids.

### 8 Exposure Controls and Personal Protection

**Exposure Standards:**

Nuisance dust:

TWA - 10 mg/m<sup>3</sup> (total dust)TWA - 2 mg/m<sup>3</sup> (inspirable dust)**Engineering Controls:**

Ensure adequate ventilation of the working area. Provide local exhaust for contaminant extraction if natural ventilation is insufficient.

**Respiratory Protection:**

Use an approved dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of dust, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

Chemical resistant gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Safety glasses for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 Physical and Chemical Properties

**Appearance:****Form:**

Solid, crystals

**Colour:**

White

**Odour:**

Odourless

**Odour Threshold:**

No information available

**pH-Value:**

8-11

**Melting point/freezing point:**

333-337 °C

**Initial Boiling Point/Boiling Range:**

No information available

**Flash Point:**

No information available

**Flammability:**

Non-flammable, however, product is an oxidiser and may intensify a fire.

**Auto-ignition Temperature:**

No information available

**Decomposition Temperature:**

&gt;600 °C

**Explosion Limits:****Lower:**

No information available

**Upper:**

No information available.

**Vapour Pressure:**

No information available

**Relative Density at 20 °C:**

2.1

**Vapour Density:**

No information available

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**Evaporation Rate:** No information available  
**Solubility in Water at 20 °C:** >100 g/l  
**Partition Coefficient (n-octanol/water):** No information available  
**Viscosity:** No information available

### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** May cause or intensify fire; oxidiser.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.

**Conditions to Avoid:** Heat, hot surfaces, sparks, open flames and other sources of ignition.

**Incompatible Materials:** Flammable materials, combustible materials, strong acids, and reducing agents.

**Hazardous Decomposition Products:** Nitrogen oxides, potassium oxide, toxic fumes and corrosive vapours.

### 11 Toxicological Information

**Toxicity:**

**LD50/LC50 Values:**

**CAS: 7757-79-1 Potassium nitrate**

Oral	LD50	3,750 mg/kg (rat)
	LD50	>5,000 mg/kg (rat)

**Acute Health Effects**

**Inhalation:** May cause respiratory irritation.

**Skin:** May cause skin irritation.

**Eye:** May cause eye irritation.

**Ingestion:** May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:** No information available

**Existing Conditions Aggravated by Exposure:** No information available

### 12 Ecological Information

**Ecotoxicity:**

**Aquatic toxicity:**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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<b>CAS: 7757-79-1 Potassium nitrate</b>	
EC50/48 h	490 mg/l (daphnia)
LC50/96 h	1,378 mg/l (guppy)

**Persistence and Degradability:** No data available on finished product.**Bioaccumulative Potential:** Low bioaccumulation potential based on basic physical and chemical properties.**Mobility in Soil:** Product adsorbs little onto the soil.**Other adverse effects:** May cause eutrophication at very low concentration.

## 13 Disposal Considerations

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 Transport Information

<b>UN Number</b>	
<b>ADG, IMDG, IATA</b>	UN1486
<b>Proper Shipping Name</b>	
<b>ADG, IMDG, IATA</b>	POTASSIUM NITRATE
<b>Dangerous Goods Class</b>	
<b>ADG Class:</b>	5.1
<b>Packing Group:</b>	
<b>ADG, IMDG, IATA</b>	III
<b>Marine pollutant:</b>	No
<b>EMS Number:</b>	F-A,S-Q
<b>Hazchem Code:</b>	1Z
<b>Special Provisions:</b>	IMDG: 964, 967 IATA: A803
<b>Excepted quantities (EQ):</b>	E1
<b>Limited Quantities:</b>	5 kg
<b>Packagings &amp; IBCs - Packing Instruction:</b>	P002, IBC08, LP02
<b>Packagings &amp; IBCs - Special Packing Provisions:</b>	B3
<b>Portable Tanks &amp; Bulk Containers - Instructions:</b>	T1, BK1, BK2, BK3
<b>Portable Tanks &amp; Bulk Containers - Special Provisions:</b>	TP33

## 15 Regulatory Information

**Australian Inventory of Industrial Chemicals:** All ingredients are listed.**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:**

Not a scheduled poison.

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### 16 Other Information

**Date of Preparation or Last Revision:** 01.03.2022**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Oxidising Solids 3: Oxidising solids, Hazard Category 3

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020"

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