

# Safety Data Sheet



**Product Name:** Colluli SOP – Soluble

## 1. IDENTIFICATION

<b>Supplier Name</b>	Danakali Limited
<b>Address</b>	31 Ventnor Avenue, WEST PERTH, WA 6005
<b>Web Address</b>	www.danakali.com
<b>Telephone</b>	+61 8 6315 1444
<b>Fax</b>	+61 8 9486 7093
<b>Emergency</b>	+61 8 6315 1444
<b>Product Name</b>	Colluli SOP – Soluble
<b>Product Description</b>	Potassium sulphate produced from natural kainite and sylvite evaporite deposits.
<b>Other Names</b>	Sulphate of potash, potassium sulphate, arcanite.
<b>Use(s)</b>	Fertiliser.
<b>SDS Date</b>	20 November 2015

## 2. HAZARDS IDENTIFICATION

**NOT CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF THE GLOBALLY HARMONISED SYSTEM**

<b>Signal word:</b>	None
<b>Symbols:</b>	None

### HAZARD STATEMENTS

None

### PRECAUTIONARY STATEMENTS

P301+P312 IF SWALLOWED: Rinse mouth. Call a POISON CENTRE or Doctor if you feel unwell

### NOT CLASSIFIED DANGEROUS GOODS BY THE CRITERIA OF THE ADG CODE

<b>UN No</b>	None Allocated	<b>DG Class</b>	None Allocated
<b>Subsidiary Risk</b>	None Allocated	<b>Packing Group</b>	None Allocated
<b>HAZCHEM Code</b>	None Allocated	<b>IMO MARPOL V</b>	Not HME

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	FORMULA	CAS No.	CONTENT
Potassium Sulphate	K <sub>2</sub> SO <sub>4</sub>	7778-80-5	>98%
Other salts non hazardous	Various		<2%

## 4. FIRST AID MEASURES

<b>Inhalation</b>	If inhaled, remove from contaminated area. To protect rescuer, use a particulate dust mask (Class P1 or P2). Apply artificial respiration if not breathing or asthma like symptoms occur.
<b>Eyes</b>	Hold eyelids apart and flush continuously with clean running water. Continue flushing until advised to stop by a qualified person (Doctor or Poisons Information Centre), or for at least 15 minutes.

# Safety Data Sheet



## Product Name: Colluli SOP – Soluble

**Ingestion** If person is conscious, rinse mouth thoroughly with water and give water or milk to drink. Induce vomiting if a large amount has been swallowed. Seek advice from the Poisons Information Centre on 13 11 16 (Australia wide) or a Doctor if there is pain or difficulty with swallowing.

**Skin** If contact with skin or hair occurs, remove contaminated clothing and flush hair or skin with clean running water and soap. If skin irritation or rash occurs seek medical attention.

**First Aid Facilities** Eye wash facilities and drinking water should be available.

**Advice to Doctor** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Flammability** Non flammable.

**Fire and Explosion** Non flammable and does not support combustion.

**Extinguishing** As appropriate for primary fuel source, is not flammable and does not support combustion.

**HAZCHEM Code** Not Assigned.

## 6. ACCIDENTAL RELEASE MEASURES

**Spillage** Handle with personal protective equipment (see Section 8). Clear area of all unprotected personnel. Avoid generating dust. Collect material for re-use or disposal.

## 7. STORAGE AND HANDLING

**Storage** Store in sealed containers to limit exposure to air and moisture which will cause the material to agglomerate. Store away from foodstuffs. Incompatible with aluminium and magnesium.

**Handling** Carefully read the product label before handling. Use safe handling practices to minimise risk of eye or skin contact and inhalation of dust. Wear protective gloves, eye protection (safety glasses) and a particulate dust mask (Class P1 or P2) at high dust levels when handling large amounts.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Standards

Ingredient	Reference	TWA	STEL
Nuisance dust	Safe Work Australia Hazardous Substances Information System	10 mg/m <sup>3</sup>	None

No specific dust exposure limits are set. The ACGIH/Safework Australia TWA for general inhalable dust is 10 mg/m<sup>3</sup>.

### Biological Limits

There are no biological limits allocated.

### Engineering Controls

Use in ventilated areas, avoid high dust concentrations.

# Safety Data Sheet



**Product Name: Colluli SOP – Soluble**

## **Personal Protective Equipment (PPE)**

Wear protective gloves, eye protection (safety glasses) and a particulate dust mask (Class P1 or P2) at high dust levels when handling large amounts.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	White chalky granules	
<b>Odour</b>	Odourless	
<b>pH</b>	6.6 to 7.2	
<b>Vapour Pressure</b>	Negligible	
<b>Vapour Density</b>	Not applicable	
<b>Boiling Point</b>	Potassium Sulphate	1,689°C
<b>Melting Point</b>	Potassium Sulphate	1,067°C
<b>Solubility in Water</b>	Soluble (12 g/100 mL at 20°C)	
<b>Specific Gravity</b>	2.7	
<b>Bulk Density</b>	1.56 tonnes/m <sup>3</sup>	
<b>Particle Size</b>	<0.5 mm	
<b>Flammability</b>	Not flammable	
<b>Flash Point</b>	Not applicable	

## **10. STABILITY AND REACTIVITY**

**Chemical Stability** Stable under recommended storage conditions (sealed containers), at ambient temperatures. Polymerisation will not occur. As it is a soluble salt, it is mildly corrosive to metals in the presence of moisture.

**Conditions to Avoid** High temperatures and open flames.

### **Incompatible Materials**

Incompatible with aluminium and magnesium metal – explosion at high temperatures.

### **Hazardous Decomposition Products**

May evolve toxic fumes or gases (sulphur dioxide) upon heating to decomposition.

## **11. TOXICOLOGICAL INFORMATION**

### **Health Hazard Summary**

Product has a low toxicity. Use normal safe work practices to avoid excessive eye or skin contact and dust inhalation. Sulphate of potash is non-toxic when ingested in small quantities. Ingestion of large quantities may cause gastrointestinal irritation and vomiting.

**Eye** May cause eye irritation, discomfort and redness.

**Inhalation** Prolonged inhalation of high dust concentrations of airborne dust may cause irritation to the nose, throat and upper respiratory tract.

# Safety Data Sheet



## Product Name: Colluli SOP – Soluble

<b>Skin</b>	Low irritant, prolonged or repeated contact may result in mild irritation or rash (dermatitis) from the drying effect of the material on the skin.
<b>Ingestion</b>	Low acute toxicity. Ingestion of large quantities (approximately 100 grams) may result in nausea, vomiting and gastrointestinal irritation. Lower doses will likely irritate the mouth, oesophagus and stomach and sulphates have a purgative effect (diarrhoea).
<b>Toxicity Data</b>	Potassium Sulphate (7778-80-5): LD <sub>50</sub> (ingestion): 6,600 mg/kg (rat) LDL <sub>0</sub> (ingestion): 750 mg/kg (woman) TDL <sub>0</sub> (ingestion): 750 mg/kg (woman) LDL <sub>0</sub> (subcutaneous): 3,000 mg/kg (guinea pig)

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	The material is a naturally occurring salt and not expected to cause any adverse effects to animals or plant life if released in controlled quantities such that general salinity is not affected in the area.
--------------------	--

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal</b>	Dispose of contents to an approved waste disposal facility if required.
-----------------------	---

## 14. TRANSPORT INFORMATION

<b>ADG/IMDG Dangerous Goods Classification:</b>	Not a Dangerous Good
<b>UN Number</b>	None Allocated
<b>UN Proper Shipping Name</b>	None Allocated
<b>Class and Subsidiary Risk</b>	None Allocated
<b>Packing Group</b>	None Allocated
<b>Hazchem Code</b>	None Allocated
<b>IMO MARPOL V</b>	Not classified by health or HME (Harmful Marine Environment) criteria.

## 15. REGULATORY INFORMATION

<b>Poison Schedule</b>	Not scheduled in Australia using the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP). Listed in the Australian Inventory of Chemical Substances (AICS).
------------------------	--

## 16. OTHER INFORMATION

### Abbreviations

ACGIH	American Conference of Government and Industrial Hygienists
ADG	Australian Dangerous Goods Code
BEI	Biological Exposure Index
CAS No	Chemical Abstracts Service number to uniquely identify chemical compounds

# Safety Data Sheet



## Product Name: Colluli SOP – Soluble

EC <sub>50</sub>	Effect concentration required for 50% of the members of the test population
GHS	Globally Harmonized System for the Classification and Labelling of Chemicals
LD <sub>50</sub>	Lethal dose required to kill 50% of the members of a test population after a specific time period
LDL <sub>0</sub>	Lowest dose causing lethality
TDL <sub>0</sub>	Lowest dose causing a toxic effect
LC <sub>50</sub>	Lethal concentration required to kill 50% of the members of a test population after a specific time period after exposure
NOEC	No observable effect concentration (chronic toxicity)
mg/L	milligrams per litre
mg/m <sup>3</sup>	milligrams per cubic metre.
RTECS	Registry of Toxic Effects of Chemical Substances (NIOSH)
TWA	Time weighted average
STEL	Short term exposure limit

### Reference

This document was prepared in accordance with the code of practice for the Preparation of Safety Data Sheets for Hazardous Chemicals published by SafeWork Australia 2011. MBS Environmental believes that the information in this Safety Data Sheet is accurate based on information supplied, however makes no express or implied warranty as to the accuracy of such information and expressly disclaims any liability resulting from reliance on such information.

### Prepared by

MBS Environmental  
4 Cook Street, West Perth  
Western Australia 6005  
Phone: +61 8 9226 3166  
Fax: +61 8 9226 3177  
Email: [info@mbsenvironmental.com.au](mailto:info@mbsenvironmental.com.au)  
Web: [www.mbsenvironmental.com.au](http://www.mbsenvironmental.com.au)