

Product Name: Colluli SOP-M - Granular

1. IDENTIFICATION

Supplier Name Danakali Limited

Address 31 Ventnor Avenue, WEST PERTH, WA 6005, Australia

Web Address www.danakali.com

Telephone +61 8 6315 1444

Fax +61 8 9486 7093

Emergency +61 8 6315 1444

Product Name Colluli SOP-M – Granular

Product Description Potassium magnesium sulphate (leonite) produced from natural kainite and sylvite

evaporite deposits.

Other Names Leonite, sulphate of potash –magnesium

Use(s) Fertiliser

SDS Date 20 November 2015

2. HAZARDS IDENTIFICATION

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

Signal word: None Symbols: 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

UN NoNone AllocatedDG ClassNone AllocatedSubsidiary RiskNone AllocatedPacking GroupNone AllocatedHAZCHEM CodeNone AllocatedIMO MARPOL VNot HME

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	FORMULA	CAS No.	CONTENT
Potassium Magnesium Sulphate	K ₂ Mg(SO ₄) ₂ ·4H ₂ O	15226-80-9	>98%
Other salts non hazardous	Various		<2%

4. FIRST AID MEASURES

Inhalation 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.



Product Name: Colluli SOP-M - Granular

Eyes 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.

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 alloys.

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

Exposure Standards					
Ingredient	Reference	TWA	STEL		
Nuisance dust	Safe Work Australia Hazardous Substances Information System	10 mg/m ³	None		

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

Biological Limits

There are no biological limits allocated.



Product Name: Colluli SOP-M - Granular

Engineering Controls

Use in ventilated areas, avoid high dust concentrations.

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

Appearance White crystalline granules

Odour Odourless pH 6 to 7

Vapour Pressure Negligible

Vapour DensityNot applicableBoiling PointNot availableMelting PointNot available

Solubility in Water Soluble (31 g/100 mL at 25°C)

Specific Gravity 2.2

Bulk Density Approximately 1.3 to 1.5 tonnes/m³

Particle Size 2 to 4 mm

Flammability Not flammable

Flash Point 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 risk at high temperatures.

Hazardous Decomposition Products

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

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary

Product has a low toxicity. No eye, skin, carcinogenicity, mutagenicity, target organ or developmental toxicity data was found for potassium magnesium sulphate. General statements below are based on information for potassium/magnesium sulphate. Use normal safe work practices to avoid excessive eye or skin contact and dust inhalation. Product is non-toxic when ingested in small quantities. Ingestion of large quantities may cause gastrointestinal irritation and vomiting.



Product Name: Colluli SOP-M - Granular

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.

Skin Low irritant, prolonged or repeated contact may result in mild irritation or rash

(dermatitis) from the drying effect of the material on the skin.

Ingestion Low acute toxicity. Ingestion of large quantities may result in nausea, vomiting and

gastrointestinal irritation. Lower doses will likely irritate the mouth, oesophagus and

stomach. Sulphate salts have a purgative effect (diarrhoea).

Toxicity Data Potassium Magnesium Sulphate (15226-80-9), no toxicity data was available. Related

compounds and their toxicity are:

Potassium Sulphate (7778-80-5):

LD₅₀ (ingestion): 6,600 mg/kg (rat)
TDL₀ (ingestion): 750 mg/kg (woman)

Magnesium Sulphate Heptahydrate (10034-99-8): TDL_o (ingestion): 351 mg/kg (woman)

12. ECOLOGICAL INFORMATION

Ecotoxicity 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

Waste Disposal Dispose of contents to an approved waste disposal facility if required.

14. TRANSPORT INFORMATION

ADG/IMDG Dangerous Goods Classification: Not a Dangerous Good

UN Number None Allocated
UN Proper Shipping Name None Allocated
Class and Subsidiary Risk None Allocated
Packing Group None Allocated
Hazchem Code None Allocated

IMO MARPOL V Not classified by health or HME (Harmful Marine

Environment) criteria.

15. REGULATORY INFORMATION

Poison Schedule Not scheduled in Australia using the Standard for the Uniform Scheduling of Drugs and

Poisons (SUSDP).



Product Name: Colluli SOP-M - Granular

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

EC₅₀ Effect concentration required for 50% of the members of the test population GHS Globally Harmonized System for the Classification and Labelling of Chemicals

LD₅₀ Lethal dose required to kill 50% of the members of a test population after a specific time

period

LDL_o Lowest dose causing lethality

TDL_o Lowest dose causing a toxic effect

LC₅₀ 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)

NIOSH National Institute of Occupational Safety and Health (United States)

mg/L milligrams per litre

mg/m³ 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 considers 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
Web: www.mbsenvironmental.com.au