



SAFETY DATA SHEET

SAP - Super Absorbent Polymer

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

Identifiers

Product name: **SAP – Super Absorbent Polymer**
 Potassium polyacrylate, cross-linked; Super absorbent polymer

Other Name(s):

Recommended use of the chemical and restrictions on use

Product Use: A super absorbent polymer for use as a water retainer for soils and substrates in agriculture and horticulture

Supplier contact details:

Company name: Grosafe Chemicals Limited
 Address: 20 Jean Batten Drive Mt Maunganui, 3116
 Telephone: 0800 220 002
 Email: info@grosafe.co.nz

Emergency telephone number (24 hours) 0800 CHEMCALL (0800 243 622)

SECTION 2: HAZARD IDENTIFICATION

Classification of the Hazardous Substance

Not classified as a hazardous substance according to Hazardous Substances and New Organisms (HSNO) Act 1996

Label elements:

Pictograms: Not applicable
Signal Word: Not applicable
Hazard statements: Not applicable
Additional labelling statements required under Hazardous Substances (Labelling) Notice 2017: Not applicable
Precautionary statements: Not applicable
Response statements: Not applicable
Storage statements: Not applicable
Disposal statements: Dispose of contents/container in accordance with local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	Proportion % w/w
Potassium polyacrylate, cross-linked	25608-12-2	≥95%

SECTION 4: FIRST AID MEASURES

Description of first aid measures

If medical advice is needed, have product container or label at hand.

For advice, contact the National Poison Centre 0800 POISON (0800 764 766) or a doctor

IF SWALLOWED: If swallowed, rinse mouth with water. Call a POISONS CENTRE or doctor if you feel unwell.

IF ON SKIN: Wash skin with plenty of soap and water. Get medical advice if irritation occurs.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice if irritation persists.

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISONS CENTRE or doctor if you feel unwell.

Symptoms caused by exposure

Unlikely to cause harmful effects under normal conditions of handling and use.

Medical attention and special treatment

Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Use water spray, foam, CO₂, or dry powder as appropriate for surrounding materials. Contain extinguishing media to prevent runoff into drains, sewers, waterways.

Unsuitable extinguishing media

Do not use high volume water jet as an extinguisher as this may spread the fire.

Specific hazards arising from the chemical

Fire decomposition products may be hazardous to health. May generate carbon monoxide, carbon dioxide and gases

Evacuate people to safe area upwind of fire.

Special protective equipment and precautions for fire fighters

Wear full personal protective equipment including with self-contained breathing apparatus (SCBA). Take precautionary measures against static discharge. The product itself is not explosive but fine dust may mix with air to produce explosive mixtures. Avoid dust formation.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Have this SDS available. Spilt product creates a very slippery surface when combined with water or moisture. In the event of a spill, wear appropriate protective clothing, eye and hand protection.

Environmental precautions

Prevent spillage from entering drains or waterways. If contamination of drains, streams, watercourses, etc. is unavoidable, advise the local water authority.

Methods and materials for containment and cleaning up

Contain spilled material. Sweep up and shovel into suitable labelled containers for disposal. Clean thoroughly. Repeat procedure if necessary.

Dispose of contaminated materials at an approved landfill in accordance with local regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Read the label before use.

Do not eat, drink or smoke when using.

Use outdoors or in a well-ventilated area.

Wear a dust mask in the presence of dust.

Wash hands and exposed skin with soap and water after handling and before rest or meal breaks.

Wash contaminated work clothing before reuse.

Conditions for safe storage

Store in a dry, cool, well-ventilated area and out of direct sunlight. Protect from moisture.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**Control parameters – exposure standards, biological monitoring**

Ingredient	TWA (mg/m ³)	STEL (mg/m ³)
-		

No exposure limits assigned.

Engineering controls

Use outdoors or in a well-ventilated area.

Personal protective equipment (PPE)

Eye/Face Protection: Wear safety glasses/goggles/face shield.

Skin Protection: Not specified.

Respirator: Wear a dust mask in the presence of dust. In case of inadequate ventilation use a suitable respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White solid
Odour	Odourless
Odour threshold	No data
pH	7.7 (approx.)
Melting/Freezing Point	Not applicable
Boiling Point /Range	Not applicable
Flash point	Not applicable
Flammability (solid, gas)	No data
Vapour Pressure	Not applicable
Vapour density	<20 hPa (20°C)
Bulk density	600 kg/m ³
Solubility	Practically insoluble in water.
Partition Co-efficient n-octanol/water	No data
Auto-ignition temperature	No data
Decomposition temperature	Stable under usual application conditions
Viscosity	Not applicable
Particle characteristics	No data

SECTION 10: STABILITY AND REACTIVITY**Reactivity**

This product is unlikely to react or decompose under normal storage conditions.

Chemical stability

Stable under normal temperatures and pressure for storage and use.

Conditions to Avoid

Avoid temperatures above 200°C. Avoid heat and contamination.

Incompatible materials and possible hazardous reactions

No known incompatibility with other materials.

Hazardous decomposition products

Carbon monoxide, carbon dioxide

Polymerisation

No data

SECTION 11: TOXICOLOGICAL INFORMATION

Health hazard information

This product is not classified as hazardous to health.

Toxicological information

Acute toxicity:	Not classified as acutely toxic.
Aspiration hazard:	Not classified as an aspiration hazard.
Respiratory irritation:	In high concentrations vapours, fumes, mists or dust may irritate nose, throat and mucous membranes.
Skin corrosion/irritation	May cause moderate irritation to skin with prolonged exposure.
Serious eye damage/irritation	Not classified as an eye irritant.
Respiratory or skin sensitisation	Not classified as an a respiratory or skin sensitiser.
Germ cell mutagenicity:	No mutagens present or none present in regulated quantities.
Carcinogenicity	No carcinogens present or none present in regulated quantities.
Reproductive toxicity	No evidence of hazardous properties.
Specific target organ toxicity – single/repeated exposure	A two-year lifetime inhalation study in rats carried out using micronized dust from Grosafe SAP (to obtain completely inhalable particles) revealed a non-specific inflammatory reaction in the lungs. Tumours formed in several animals at the highest chronically administered concentration (see workplace monitoring, protective equipment, section 8) Tumours are not to be expected in the absence of chronic inflammation. The study revealed a defined NOEL of 0.05 mg/cbm of micronized dust from Grosafe SAP.
Narcotic effects	Not classified as having narcotic effects.
Toxicological data:	Oral: LD ₅₀ (rat) >5000 mg/kg bw Dermal: LD ₅₀ (rat) >2000 mg/kg bw Inhalation: Not classified as acutely toxic by inhalation based on available data. Skin irritation: Not irritating (rabbit) Eye irritation: Mildly irritating particle effect (rabbit)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

This product is not classified as hazardous to the environment.

Environmental Fate

Breakdown in soil and groundwater: No data

Bioaccumulation: Does not bioaccumulate.

Partition coefficient (octanol/water): No data

Soil mobility: No evidence of hazardous properties.

Ecotoxicity data:

Potassium polyacrylate, cross-linked	Fish: LC50 <i>Leuciscus idus</i> (Golden orfe) 96h >5500 mg/L LC50 <i>Danio rerio</i> , (Zebra fish) 96h >4000 mg/L Crustacea: EC50 <i>Tetrahymena pyriformis</i> 48h >6000 mg/ Alga: No data
--------------------------------------	--

Earthworm: No data

Bird: No data

SECTION 13: DISPOSAL CONSIDERATIONS**Product Disposal**

Refer to product label. If possible, dispose of by using according to the label. Otherwise dispose of to an approved landfill in accordance with local regulations.

Container Disposal

Refer to product label. Do not use packaging for storage of other products. Empty packaging should be disposed of to an approved recycler or crushed and sent to approved landfill.

SECTION 14: TRANSPORT INFORMATION**Land transport (NZS5433 Transport of Dangerous Goods on Land):**

Not Classified as a dangerous good.

Marine Transport (IMO/IMDG):

Not classified as a dangerous good.

Air Transport (ICAO/IATA):

Not classified as a dangerous good.

SECTION 15: REGULATORY INFORMATION**HSNO Act 1996**

Not classified as a hazardous substance according to Hazardous Substances (Hazard Classification) Notice 2020.

Additional information:

Refer to HS Notices (www.epa.govt.nz) and HSW HS Regulations (www.worksafe.govt.nz)

Certified Handler:

Not applicable

Tracking:

Not applicable

International Agreements:

Not applicable

ACVM Act 1997

Exempt from registration.

SECTION 16: OTHER INFORMATION**Date of preparation or last revision of SDS****SDS issued**

31 July 2023

SDS supersedes

N/A

Reason issued

Update to GHS.

ABBREVIATIONS**ADI**

Acceptable Daily Intakes

CAS number

Chemical Abstracts Service Registry Number

CCID

Chemical Classification Identification Database

EPA

Environmental Protection Authority

ErC₅₀

Half maximal Effective Concentration

GHS

Globally Harmonized System of Classification and Labelling of Chemicals

Hazchem Code

Emergency action code of numbers and letters that provide information to emergency services especially firefighters

HSNO

Hazardous Substances and New Organisms

HS

Health and Safety

HSR

Hazardous Substances Register

IARC

International Agency for Research on Cancer

31 July 2023

LC₅₀	Median Lethal Concentration
LD₅₀	Median Lethal Dose
SDS	Safety Data Sheets
NOAEL	No Observable Adverse Effect Level
NOEL	No Observable Effect Level
NOS	Not otherwise specified
STEL	Short Term Exposure Limit
SWA	Safety Work Australia
TWA	Time-Weighted Average
UN Number	United Nations Number

Information contained in this Safety Data Sheet is provided in good faith and is believed to be correct at the date hereof. However, it's expected that individuals receiving the information will exercise independent judgement in determining its appropriateness for a particular purpose. Grosafe Chemicals Ltd makes no representation whatsoever as to the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability whatsoever, whether with respect to negligence or otherwise, and no responsibility as permitted by law for any loss or damage arising from or connection with the supply or use of the information in this Safety Data Sheet.

End of Safety Data Sheet