

Section 1. Identification of the Material and Supplier

Supplier	Advance Landscape Systems 491 Waterloo Road Christchurch 8042 New Zealand Phone: 0800 600 789.
Product Name	STOCKOSORB 660 MEDIUM
Recommended Use	Soil conditioner

Section 2. Hazards Identification

Personal Hazards	None
Risks for the Environment	None

Section 3. Composition

Chemical Description	Potassium polyacrylate, cross-linked.
Content in percent (%)*	>=95%
CAS-Number	25608-12-2
Comments	The components are not hazardous or are below required disclosure limits.

The exact concentration has been withheld as a trade secret.

Section 4. First Aid Measures

Description of necessary first-aid measures

Inhalation	Move to fresh air.
Skin Contact	Gently wash with plenty of soap and water. Change contaminated clothing. Remove contaminated clothing and wash the skin thoroughly with soap and water after work.
Eye contact	Rinse with plenty of water, seek medical advice if necessary. Rinse immediately with plenty of water.
Ingestion	Seek medical advice if symptoms occur. Rinse mouth thoroughly.
P/Protection for First-aid Responders	No particular measures required. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Most important symptoms/effects, acute and delayed

Symptoms	None known.
Hazards	No data available.

Indication of immediate medical attention and special treatment needed

Treatment	In case of swallowing: Drink plenty of water Get medical attention if symptoms occur.
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Section 5. Fire-Fighting Measures

General Fire Hazards	No unusual fire or explosion hazards noted.
Suitable (and unsuitable) extinguishing media	
Suitable extinguishing media	Water spray, foam, CO ₂ , dry powder. Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	High volume water jet Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards from the chemical	Carbon monoxide, carbon dioxide During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	
Special fire fighting procedures	Take precautionary measures against static discharges. The product itself is not explosive; however, fine dust may mix with air to produce explosive mixtures. Avoid dust formation.
Special protective equipment for fire-fighters	No particular measures required. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Spilt product creates a very slippery surface in combination with water or moisture!
Methods and material for containment and cleaning up	Sweep up and shovel into suitable containers for disposal. Clean thoroughly. Repeat procedure if necessary. Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.
Environmental Precautions	Take up. Flush small residual amounts into sewage system with plenty of water for biological wastewater treatment. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

Section 7. Handling and Storage

Handling

Technical measures (e.g. Local and general ventilation)	No data available.
Safe handling advice	Take precautionary measures against static discharges. The product itself is not explosive; however, fine dust may mix with air to produce explosive mixtures. Avoid dust formation. Wear dust mask in the presence of dust. If maximum admissible concentration value at the workplace is exceeded, apply Dust mask. Ensure adequate ventilation. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Contact avoidance measures	No data available.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Storage

Safe storage conditions

Average temperature for loose bulk storage over 3 m³ must not exceed 50°C. Keep in a dry place. Protect from moisture. Store away from incompatible materials. Store in original tightly closed container.

Safe packaging materials

No data available.

Section 8. Exposure Controls and Personal Protection

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses Wear goggles/face shield.

Skin Protection Hand Protection

No data available.

Skin and Body Protection

No data available.

Respiratory Protection

Wear dust mask in the presence of dust. If maximum admissible concentration value at the workplace is exceeded, apply Dust mask. In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Section 9. Physical and Chemical Properties

Appearance

Physical state

Solid

Form

Powder

Colour

White

Odour

Odourless

Odour Threshold

No data available.

pH

Approx. 7.7 (1.0 g/l,

Melting Point

Not applicable

Boiling Point

Not applicable

Flash Point

Not applicable

Evaporation Rate

No data available.

Flammability (solid, gas)

No data available.

Explosive limit upper (%)

No data available.

Explosive limit - lower (%)

No data available.

Vapor pressure	< 20 hPa (20 'C)
Vapor density (air=1)	No data available.
Density	Approx. 0.7 g/cm ³
Relative density	No data available.
Solubility in Water	(20 'C) Practically Insoluble
Solubility (other)	No data available.
Partition coefficient (n-octanol/water)	No data available.
Self Ignition Temperature	No data available.
Decomposition Temperature	Stable under usual application conditions.
Kinematic viscosity	No data available.
Dynamic viscosity	Not applicable
Other information	
Bulk density	600 kg/m ³
Explosive properties	No data available.
Oxidising properties	No data available.
Minimum ignition temperature	Not determined

Section 10. Stability and Reactivity

Reactivity	No data available.
Chemical Stability	Stable under usual application conditions. Material is stable under normal conditions.
Possibility of hazardous reactions	None known.
Conditions to avoid	Avoid temperatures above 200°C. Avoid heat or contamination.
Incompatible Materials	No known incompatibility with other materials.
Hazardous Decomposition	None known.

Section 11. Toxicological Information

Information on likely routes of exposure

Inhalation	Inhalation is the primary route of exposure. In high concentrations, vapours, fumes or mists may irritate nose, throat and mucus membranes.
Skin Contact	Moderately irritating to skin with prolonged exposure.
Eye contact	Eye contact is possible and should be avoided.
Ingestion	May be ingested by accident. Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	No data available.
Skin Contact	No data available.
Eye contact	No data available.
Ingestion	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral	LD 50 (Rat): > 5,000 mg/kg
Dermal	LD 50 (Rat): > 2,000 mg/kg
Inhalation	Not classified for acute toxicity based on available data.
Repeated dose toxicity	No data available.
Skin Corrosion/Irritation	OECD 404 (Rabbit): not irritating
Serious Eye Damage/Eye Irritation	Rabbit: Mildly Irritating particle effect
Respiratory or Skin Sensitisation	OECD 406 (Guinea Pig) not sensitising
Carcinogenicity	No evidence for hazardous properties
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	No carcinogens present or none present in regulated quantities
US. National Toxicology Program (NTP) Report on Carcinogens	No carcinogens present or none present in regulated quantities
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro	No data available.
In vivo	No data available.
Reproductive toxicity	No evidence for hazardous properties
Specific Target Organ Toxicity - Single Exposure	No data available.
Components	Potassium polyacrylate, cross-linked. Not classified
Specific Target Organ Toxicity - Repeated Exposure	A chronic (2-year) lifetime inhalation study in rats, carried out using micronised dust from a superabsorbent polymer (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 micronised dust from superabsorbent polymer.
Aspiration Hazard	Not applicable.
Other effects	No data available.

Section 12. Ecological Information

Ecotoxicity

Acute hazards to the aquatic environment

Fish No data available.

Components

Potassium polyacrylate, cross-linked. LC 50 (Leuciscus idus (Golden orfe), 96 h): > 5,500 mg/l
LC 50 (Danio rerio (zebra fish), 96 h): > 4,000 mg/l

Aquatic Invertebrates No data available.

Components

Potassium polyacrylate, cross-linked. EC 50 (Tetrahymena pyriformis, 48 h): > 6,000 mg/l

Chronic hazards to the aquatic environment

Fish No data available.

Aquatic Invertebrates No data available.

Toxicity to Aquatic Plants No data available.

Persistence and Degradability

Biodegradation No data available.

BOD/COD Ratio No data available.

Bioaccumulative potential Bioconcentration Factor (BCF)
Does not bioaccumulate.

Partition Coefficient n-octanol / water (log Kow)
No data available.

Mobility in soil No evidence for hazardous properties

Other adverse effects None known.

Section 13. Disposal Considerations

Disposal methods Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations. Wash before disposal. Dispose to controlled facilities.

Contaminated Packaging Do not re-use empty containers.

Section 14. Transport Information

Proper Shipping Name None

DG Class None

UN Number None

HAZCHEM 2X

Pack Group None

Section 15. Regulatory Information

This product does not have to be under the control of an approved handler.

See the ERMA Website for more details: www.eba.govt.nz

EPA Approval Code: HSR003257

Section 16. Other Information

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.