

SAFETY DATA SHEET

Date of Issue: Dec 2019

**1. IDENTIFICATION**

Product Name: **Express Si-Potash**
Recommended Use: **Liquid Fertiliser – Agricultural Use**
Contact Information:

Organisation	Location	Telephone
Eco Growth WA	75 Postans Rd Hope Valley Western Australia 6165 Australia	+61 8 9417 9101
Eco Growth Qld	540-604 Warrego Hwy North Tivoli Queensland 4305 Australia	+61 7 3282 7166
Poison Information Centre	Westmead NSW Australia	13 11 26
Chemcall 24 Hour Emergency Number	Australia	1800 127 406

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO ASCC CRITERIA

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

UN No.: None Allocated **DG Class:** None Allocated **Subsidiary Risk(s):** None Allocated**Packing Group:** None Allocated **Hazchem Code:** None Allocated **EPG:** None allocated**3. COMPOSITION & INFORMATION ON INGREDIENTS**

Ingredient	Formula	Cas No.	Content
Silicic Acid; Potassium Salt	$K_2H_2SiO_4$	1312-76-1	45-55%
Potassium Humate	$C_9H_8K_2O_4$	68514-28-3	3-6%
Other Non-hazardous Ingredients			Up to 100%

4. FIRST AID MEASURES

- Eye:** If in eyes, hold eyelids apart and flush continuously with running water or normal saline for at 20-30 mins. Continue flushing until advised to stop by: Poisons Information Centre or a doctor.
- Inhalation:** If inhaled, remove exposed individual to fresh air and breathe deeply. If symptoms (such as wheezing, coughing, shortness of breath, burning in the mouth or throat) persist, contact a doctor. If not breathing, apply artificial respiration – use protection.
- Skin:** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water for at least 20-30 mins... Continue flushing with water until advised to stop by: a Poisons Information Centre, or; a doctor.
- Ingestion:** DO NOT INDUCE VOMITING. Give patient 1-2 glasses (250-500ml) of water to drink. Contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor, at once.
- Advice to Doctor:** Treat Symptomatically.
- First Aid Facilities:** Eye wash facilities and safety shower should be available.

5. FIRE FIGHTING MEASURES

- Flammability:** Non Flammable
- Extinguishing Equip:** Water jets, water sprays or fire extinguisher (Class A or Class B)
- Hazchem Code:** Non Allocated

6. ACCIDENTAL RELEASE MEASURES

- Spillage:** If spilled, dilute and flush away with copious amounts of water. Collect and store in properly labelled containers for disposal or reuse. Use eye and skin PPE when cleaning/controlling spills.
- Environment:** Keep concentrated liquids away from drains and surface and ground water

7. HANDLING & STORAGE

- Handling:** Use caution to avoid spills when mixing. Add to water and apply according to label instructions.
DO NOT MIX with agrichemicals such as herbicides, pesticides and fungicides.
Handle in well-ventilated area.
Wash equipment after use.
- Storage:** General Work Practices Fertiliser Product - Not to be stored close to acids.
Store away from sunlight, excessive heat and cold.
Store above 4°C as freezing may reduce effectiveness.
If container vessel expands due to higher than normal temperatures, use correct PPE and gently and carefully release cap to release excess pressure, then reseal.
Not classified as dangerous.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Limits: No Value assigned for this specific material by the National Occupational Health and safety Commission (Worksafe Australia).

Individual PPE: **Eye & Face Protection:** Safety glasses with side shields or goggles.
Skin Protection and Clothing: Avoid prolonged contact with skin. Clothing should include long sleeves and pants, heavy grade material, safety boots and gloves. Glove types include rubber, latex or nitrile. Always wash hands before smoking, eating, drinking or using the toilet.

Respiratory Protection: Not required if handled in well-ventilated area.

Thermal Hazard: None.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance: Dark brown opaque viscous liquid

Odour: Faint earthy odour

Boiling Point: 100°C

Evaporation Rate: Not applicable.

Freezing Point: 0°C

Specific Gravity: 1.10-1.20

pH: 10.5-11.5

Flammability: Non-Flammable

Solubility in water 100%

10. STABILITY & REACTIVITY

Chemical Stability: Stable under recommended conditions of storage (normally 4°-40°C, 1 Atm pressure)

Conditions to Avoid: When mixing with other liquids, ALWAYS perform small jar test for basic compatibility.

Hazardous Reactions: All strong acids.

Decomposition Very slow.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: This product is not known to be acutely toxic.

Skin: Ingredients classified as mild skin irritant. Prolonged or repeated exposure to liquid may result in irritation and dermatitis.

Eye: Ingredients classified as mild eye irritant. Contact results in mild irritation, lacrimation and redness.

Respiration: Ingredients classified as a mild respiratory irritant. Prolonged single or repeated exposure to liquid may result in mild irritation and coughing.

Sensitization: This product is not known to be a skin or respiratory sensitiser.
Carcinogenicity: This product is not known to be a carcinogen.
STOT – single exposure: Not classified as causing organ effects from single exposure.
STOT – repeated: Not classified as causing organ effects from repeated exposure.
Ingestion: Low toxicity. Ingestion of large quantities may result in nausea.
Toxicity Data: No LD50 data available for this product.

12. ECOLOGICAL INFORMATION

Ecotoxicity: In its concentrated form, this product may have low-level hazard on soil, animals and plants. Once mixed with water at a ratio of 1:3, this product is non-hazardous. Ensure appropriate measures are taken to prevent this product from entering the environment in concentrated form. Can be easily neutralised by diluting with water.
Persistence and Degradability: This product is not persistent and degrades rapidly when exposed to environmental conditions.
Bioaccumulative Potential: Very low to non-bioaccumulative.
Mobility in Soil: Low soil mobility under normal environmental conditions.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Dispose of to an approved landfill site in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No.: None Allocated **DG Class:** None Allocated **Subsidiary Risk(s):** None Allocated

Packing Group: None Allocated **Hazchem Code:** None Allocated **EPG:** None allocated

15. REGULATORY INFORMATION

The product is classified and labelled for supply in accordance with the chemicals (hazard information and packaging) regulations as follows:

Danger Classifications: In accordance with the chemicals Not Applicable.

Risk Phrases: None.

Safety Phrases: Keep out of reach of children. Keep container closed.

16. OTHER INFORMATION

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.