

MSDS CROP AID REACT

1. IDENTIFICATION

Product Name	REACT
Chemical Name	Ammonium Polyphosphate, Ammonium Thiosulfate, Thiosulfuric Acid, Dipotassium Salt
Chemical Family	Inorganic Salts
Formula	$(\text{NH}_4)_3\text{HP}_2\text{O}_7 + \text{NH}_4\text{H}_2\text{PO}_4 + \text{K}_2\text{S}_2\text{O}_3$
Recommended Use:	Agricultural Industry – Fertilizer
Manufactured BY:	Crop Aid Nutrition Ltd. Box 90 Sovereign, Sask S0L3A0
Emergency Contact:	1-306-831-8550

2. HAZARDS

Keep out of reach of children

Caution: May cause mild eye and skin irritation. Avoid contact with skin, eyes, open cuts, or sores. In case of contact, flush with water. Get medical attention for eyes. Acute ingestive effects are described as nausea, chills, and diarrhea. Product users should avoid prolonged or repeated skin contact by wearing impervious gloves, long sleeve shirt, long pants, socks, and rubber boots. Goggles for eye protection are recommended. Wash thoroughly after handling and using this product.

3. COMPOSITION

Chemical Name	Ammonium Polyphosphate, Thiosulfuric Acid, Dipotassium Salt $(\text{NH}_4)_3\text{HP}_2\text{O}_7 + \text{NH}_4\text{H}_2\text{PO}_4 + \text{K}_2\text{S}_2\text{O}_3$ (4-13-6-4)
Chemical Family	Inorganic Salts

4. FIRST AID

If in eyes:	Flush eyes with clean running water for at least 15 minutes, if irritation persists, seek medical attention.
If on skin:	Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention.
If swallowed:	If conscious, drink 1 or 2 glasses of water. Get medical attention. Never induce vomiting or give anything by mouth to an unconscious person.
If inhaled:	Remove to fresh air. If irritation persists, seek medical attention.

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5. FIRE FIGHTING MEASURES

Flammable limits:	Not Flammable
Extinguishing Media:	Use medium appropriate to surrounding fire.
Special Procedures:	Remain upwind, avoid breathing smoke, wear self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Steps: Avoid breathing mists. Absorb and sweep up spills immediately and transfer to suitable containers for possible land application according to label use or for disposal. Check local, provincial, and federal regulations for proper disposal.

Caution: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. **HANDLING AND STORAGE**

Handling: Avoid breathing fertilizer mists. Avoid prolonged or repeated skin contact. Avoid eye contact. Wash hands thoroughly after using this product and before eating, drinking, or using the toilet.

Storage: Store in original containers only. Keep containers tightly closed when not in use. Store in a cool, dry well ventilated area, away from children, and food products, and seed. Store at ambient temperatures. Do not contaminate water, food, or feed by storage or disposal.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering: Not normally required

Respiratory: Not normally required, if vapors or mists exceed acceptable levels wear a MSHA/NIOSH approved respirator.

Eye Protection: Chemical goggles or shielded safety glasses.

Skin Protection: Wear protective clothing, long sleeved shirt and pants, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.

9. **Physical and Chemical Properties**

Appearance and Odor: Clear green liquid with slight odor

Specific Gravity: 1.3

Boiling Point : >100° C.

Solubility: Soluble

pH: 7-8

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10. **Stability and Reactivity**

Stability: Stable

Incompatibility: Incompatible with copper alloys, corrosive to brass, corrosive to ferrous metals and alloys. Strong oxidizers such as nitrates, nitrites, or chlorates can cause explosive mixtures if heated to dryness. Acids will cause the release of sulfur dioxide, a severe respiratory hazard. Not compatible with lead, mercury or their alloys.

Hazardous Decomposition: Potassium Sulfate and oxides of sulfur, carbon, nitrogen, ammonia, and phosphorous. Flammable and or toxic gasses may form at temperatures above 100° C due to thermal decomposition.

11. **Toxicological Information**

Eye Irritation: May cause eye irritation

Skin Irritation: May irritate skin

Carcinogenetic Potential:

None listed in OSHA, NTP, or IARC

12. **Ecological Information**

Drift or runoff may adversely affect non-targeted plants. Do not apply directly to water. May be harmful to fish, livestock, and wildlife. Dissolved mineral salts may cause irritation of the digestive tract in animals. Do not contaminate water when disposing of equipment wash water. Do not apply when weather conditions favour drift from targeted area.

Aquatic/Marine Toxicity:

Will release ammonium ions. Slightly toxic to non-toxic to fish and aquatic organisms. Will release phosphate. Phosphate will result in algae growth which may increase turbidity and deplete oxygen resulting in potential hazards to fish and other marine organisms.

13. **Disposal Considerations**

Consult federal, provincial, and local regulations for disposal requirements.

14. **Transport Information**

Basic shipping Description:

Not regulated under DOT

Hazard Class:

Not Applicable, non-hazardous

15. **Regulatory Information**

NFPA & HMIS Hazard Ratings:

- 1 Least
- 2 Slight
- 3 Moderate
- 4 High
- 5 Severe

NFPA	1	Health
	1	Flammability
	1	Instability
HMIS	1	Health
	1	Flammability
	1	Reactivity
H		PPE

16. **Other Information**

Disclaimer and Limitation of Liability:

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