

# Material Safety Data Sheet

AGROBEST 0-19-25 + 1B (Boron)

24 Hour Emergency Phone: CHEMTREC 1-800-424-9300

Date of Preparation: 07/18/11

Revision:

## Section 1 - Chemical Product and Company Identification

Synonyms: None

CAS No: Not applicable for mixtures

Molecular Weight: Not applicable for mixtures

Chemical Formula: Not applicable for mixtures

Manufactured by:

Agro-K Corporation 8030 Main St. Minneapolis, MN 55432 (763)-780-4116

## Section 2 - Composition / Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Potassium Phosphate Dibasic Anhydrous	7758-11-4	49 - 51%	Yes
Potassium Tetraborate Tetrahydrate	12045-78-2	< 10%	Yes

## Section 3 - Hazards Identification

Emergency Overview

CAUTION! MAY BE HARMFUL IF SWALLOWED.

Potential Health Effects

Inhalation: Not expected to be a health hazard.

Ingestion:

Borates, and to a lesser degree Phosphates are slowly absorbed when ingested, and may result in systemic effects. Such effects, however, have occurred. Symptoms may include vomiting, lethargy, diarrhea, blood chemistry effects, cardiac effects and central nervous system effects. The toxicity of phosphates is because of their ability to sequester calcium. Acute potassium intoxication by mouth is rare because large single doses usually induce vomiting and because in the absence of pre-existing kidney damage, potassium is rapidly excreted. Potassium poisoning can result in heart effects, change in respiration rate, tingling in the extremities, heaviness in the limbs, nausea and diarrhea.

Skin Contact: No adverse effects expected.

Eye Contact: No adverse effects expected.

Chronic Exposure:

May sequester calcium and cause calcium phosphate deposits in the kidneys.

Aggravation of Pre-existing Conditions:

Persons with impaired kidney function may be more susceptible to the effects of the substance.

## Section 4 - First Aid Measures

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion: If swallowed, give several glasses of water to drink to dilute. If large amounts were swallowed or symptoms occur, get medical advice. Never give anything by mouth to an unconscious person.

Skin Contact: Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact: Wash thoroughly with running water. Get medical advice if irritation develops.

## Section 5 - Fire-Fighting Measures

Fire: Not considered to be a fire hazard.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## Section 6 - Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up spill for recovery or disposal and place in a closed container. Small amounts of residue may be flushed to sewer with plenty of water.

## Section 7 - Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty; observe all warnings and precautions listed for the product.

## Section 8 - Exposure Controls / Personal Protection

Airborne Exposure Limits: Not Established

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, "Industrial Ventilation, A Manual of Recommended Practices", most recent edition, for details.

Personal Respirators (NIOSH Approved): No information is available.

Skin Protection: Wear protective gloves and clean body-covering clothing.

Eye Protection: Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

## Section 9 - Physical and Chemical Properties

Appearance:  
Liquid

Boiling Point:  
Not applicable.

Specific Gravity:  
1.54

Vapor Pressure (mm Hg):  
No information found.

pH:  
9 - 10

Evaporation Rate (BuAc=1):  
No information found.

## Section 10 - Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products: Phosphorus oxides may form when heated to decomposition.

Hazardous Polymerization: Will not occur.

Incompatibilities: No incompatibility data found.

Conditions to Avoid: No information found.



## Section 16 - Other Information

**Prepared By:** TRS

**Revision Notes:** Section 1, 15, and format changes.

**Disclaimer:**

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information.

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