

MATERIAL SAFETY DATA SHEET

MSDS Date: 11/08/17

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Seed & Fruit 4-48-8

MANUFACTURER: High Brix Manufacturers

ADDRESS: Box 5211

Leduc, Alberta

T9E 6L6

NON-EMERGENCY PHONE: (780) 902 - 1234

POISON CONTROL CENTER: 1-866-454-1212

FAX: (780) – 440-9706

CHEMICAL NAME(S): Not applicable to mixtures

CHEMICAL FAMILY: Not applicable to mixtures

CHEMICAL FORMULA(S): Not applicable to mixtures

PRODUCT USE: Fully soluble fertilizer

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS NO.	ACGH-TLV	OSHA (PEL)	NOTES
Phosphoric acid, monopotassium salt	7722-76-1	Not established	Not established	Weight % - >98
Potassium pentahydrogen bis(phosphate)	14887-42-4	Not established	Not established	Hazard Communication regulations of the US. Occupational Safety & Health Administration (OSHA) doesn't apply to this product.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Keep dry and away from heat. Product may be irritating to eyes, skin and respiratory system. Do not take internally. Keep containers covered to avoid absorption of water from the air.

SECTION 3: HAZARDS IDENTIFICATION CONTINUED

ROUTES OF EXPOSURE: The primary routes of entry include inhalation and contact with skin and eyes.

POTENTIAL HEALTH EFFECTS

EYES: Contact with product can be irritating to eyes, and may cause pain and reddening.

SKIN: May cause irritation, especially with wet skin.

INHALATION: Dust or mists may be irritating to breathing passages.

INGESTION: Not a likely source of chronic exposure.

ACUTE HEALTH HAZARDS: None

CHRONIC HEALTH HAZARDS: None

SECTION 3 NOTES: THIS PRODUCT IS NOT HARMFUL IF IT IS USED AS DIRECTED FOR THE INTENDED PURPOSE.

SECTION 4: FIRST AID MEASURES

EYES CONTACT: Flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

SKIN CONTACT: Flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

INHALATION: If affected, remove individual to fresh air. Get medical attention at once if there is continued discomfort.

NOTE TO PHYSICIAN: Treat symptomatically and supportively.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Not combustible. Use extinguishing media appropriate to main cause of the fire.

SPECIAL FIRE FIGHTING PROCEDURES: Spread product and douse with water to cool. Keep out of sewers. Wear SCBA with positive pressure if product is involved.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Ammonia or acid fumes may be formed in a fire.

HAZARDOUS DECOMPOSITION PRODUCTS: Phosphoric acid and ammonia fumes can be generated if the product is in a fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear respirator, chemical safety goggles or face shield, rubber gloves and boots when handling.

AFTER SPILLAGE / LEAKAGE: Small amounts may be flushed to drain. Comply with Federal and Provincial regulations pertaining to spills. Keep out of waterways and storm sewers.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry place. Keep containers closed to prevent moisture pick up. Avoid extended contact with skin. Sweep up spills promptly.

OTHER PRECAUTIONS: Do not breathe dust or mist.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation sufficient to maintain TLV-TWA below $3\text{mg}/\text{m}^3$, respirable particles, and $10\text{ mg}/\text{m}^3$, inhalable particles.

PROTECTIVE EQUIPMENT: Protective clothing should be selected specifically for the working place, depending on concentration and quantity of hazardous substances handled.

EYE / FACE PROTECTION: Safety glasses with side shield or splash proof goggles should be worn if there is a possibility of eye contact. Face contact should be prevented through the use of a face shield.

SKIN PROTECTION: Impermeable gloves such as rubber, PVC or neoprene are recommended

RESPIRATORY PROTECTION: None normally required. If risk of inhalation occurs, select and use equipment suitable for use with nuisance dusts or mists.

VENTILATION: A well ventilated work environment is recommended.

INDUSTRIAL HYGIENE: Avoid contact with skin and inhalation of hot vapors. Do not eat, drink, or smoke until after-work showering and changing clothes.

EXPOSURE GUIDELINES: Not Applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Pale grey crystals/granules

ODOR: Slight acidic or ammonia odor

MELTING POINT/RANGE: Not Available

THERMAL DECOMPOSITION: Not Available

BOILING POINT: Not Applicable

VAPOUR PRESSURE: Not Available

SPECIFIC GRAVITY: Not Available

RELATIVE VAPOUR DENSITY: Not Available

FLASH POINT: Not Applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES CONTINUED

FLAMMABLE/EXPLOSION LIMITS: Not Available

AUTO-IGNITION TEMPERATURE: Not Applicable

WATER SOLUABILITY: Complete Solubility

pH (1% water solution): Not Available SPECIFIC GRAVITY: Not Available

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable when stored under proper conditions

CONDITIONS TO AVOID (STABILITY): Avoid exposure to moist air.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong acids can produce phosphoric acid and/or fumes.

HAZARDOUS POLYMERIZATION: Cannot occur

CONDITIONS TO AVOID POLYMERIZATION: Not Applicable

SECTION 11: TOXICOLOGY INFORMATION

ACUTE ORAL TOXICITY TO RAT, LD50: Not Available

ACUTE DERMAL TOXICITY TO RABBIT, LD50: Not Available

SKIN IRRITATION, RABBIT: Not Available

EYE IRRITATION, RABBIT: Not Available

SKIN SENSITIVITY, GUINEA PIGS: Not Available

AMES TEST (Salmonella typhimurium & Escherichia coli): Not Available

LONG TERM TOXICITY: Not Available

Carcinogenicity: Not Available

LARC: Not Listed

NTP 11th REPORT ON CARCINOGENS: Not Listed

OSHA: Not Listed

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE: The potential when released into water: acidity may be readily reduced by natural water hardness minerals. The phosphate, however, may persist indefinitely and contribute to eutrophication.

AQUATIC TOXICITY: Not Available

SECTION 13: DISPOSAL CONSIDERATIONS

WATER DISPOSAL: Prevent discharging of waste into watercourses and drains. Observe all pertinent regulations regarding disposal of this material.

EPA RCRA Hazardous waste code: Not listed

SECTION 14: TRANSPORTATION INFORMATION

IMDG/UN: Not Regulated

ICAO/IATA: Not Regulated

RID/ADR: Not Regulated

US DOT: Not Regulated

CANADA TDG: Not Regulated

SECTION 15: REGULATORY INFORMATION

CHEMICAL INVENTORY STATUS

INVENTORY	STATUS	LIST NUMBER
UNITED STATES (TSCA)	Not Listed	
CANADA (DSL)	Not Listed	
EUROPE (EINECS / ELINCS)	Not Listed	
AUSTRALIA (AICS)	Not Listed	
JAPAN (ENCS)	Not Listed	
NEW ZEALAND	Not Listed	
SOUTH KOREA (KECL)	Not Listed	
PHILIPPINES	Not Listed	

SECTION 16: OTHER INFORMATION:

REASONS FOR REVISION: New, Canadian version of MSDS

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*NOTE: If this MSDS is more than three years old you should contact the supplier to make sure the information is still current.