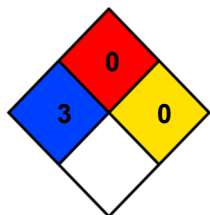




SDS DATE: 04/22/2024

SAFETY DATA SHEET

INHABIT K FNV



HMIS	
HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PPE	D

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: INHABIT K FNV**Product# 065****GENERAL USE:** Used as a part of a plant nutrition program.**PRODUCT DESCRIPTION:** A clear, amber liquid having an ammonia type odor.**SUPPLIER INFORMATION:** FBN Inputs, LLC
1887 Whitney Mesa Drive #9740
Henderson, NV 89014**EMERGENCY PHONE NUMBERS****FOR ADDITIONAL SDS CALL:** 844-200-FARM (3276)

For Emergency Medical Assistance (Human or Animal) contact Rocky Mountain Poison Control at 866-767-5040. For Chemical Emergency Assistance (Spill, Leak, Fire or Accident) contact CHEMTREC at 800-424-9300 (North America) or 703-527-3887 (International).

SECTION 2: HAZARDS IDENTIFICATION

HAZARDS OVERVIEW:

Clear, amber, liquid having an ammonia type odor. The liquid and mists are corrosive to all tissues contacted. Inhalation of mist can cause permanent lung damage. Moderately toxic by ingestion. This product can react violently with acids and other substances, materials and products.

**CLASSIFICATION:** SKIN CORROSION – CATEGORY 1A**SIGNAL WORD:** DANGER**HAZARD STATEMENT:** H314; causes severe skin burns and eye damage**PRECAUTIONARY STATEMENT:** P260; Do not breathe dusts/mist/vapors. P280; Wear protective gloves/protective clothing/eye protection/face protection P264; Wash hands thoroughly after handling**CLASSIFICATION:** HAZARD CATEGORY 4**SIGNAL WORD:** WARNING**HAZARD STATEMENT:** H302; Harmful if Swallowed**PRECAUTIONARY STATEMENT:** P301+P317—If swallowed, get emergency medical help. P330; Rinse Mouth P264; Wash hands thoroughly after handling, P270; Do not eat, drink or smoke when using this product.

SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

COMPONENT	CAS #	OSHA HAZARD	WT %	ACGIH		OSHA	
				TLV _(TWA)	STEL	PEL _(TWA)	STEL
Potassium Hydroxide	1310-58-3	Corrosive; Toxic by Ingestion	45 ± 5	None	None	None	None
				Ceiling: 2 mg/m ³			

NDA = No Data Available

N/A = Not Applicable

SECTION 4: FIRST AID MEASURES

INHALATION:	If inhaled, immediately move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; use the Holger Nielsen method (back pressure-arm lift) or proper respiratory device. If breathing is difficult, give oxygen. Call a physician.
EYE CONTACT:	In case of contact, immediately flush eyes with plenty of clean running water for at least 15 minutes, lifting the upper and lower lids occasionally. Remove contact lenses, if worn. Get medical attention immediately.
SKIN CONTACT:	In case of contact, immediately flush skin with plenty of clean running water for at least 15 minutes, while removing contaminated clothing and shoes. If burn or irritation occurs, call a physician.
INGESTION:	If swallowed DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give plenty of water to drink. Never give anything by mouth to an unconscious person.
NOTE TO PHYSICIANS:	Potassium Hydroxide solutions are corrosive to the eyes, skin and mucous membranes and are moderately toxic by ingestion. If ingested, consideration should be given to careful endoscopy as stomach or esophageal burns, perforations or strictures may occur. Careful gastric lavage with an endotracheal tube in place should be considered. Treat exposure symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Flashpoint and Method:	This product does not flash.		
Flammable Limits (in air, % by volume)	Lower:	Not applicable	Upper: Not applicable
Autoignition Temperature:	Not applicable		
GENERAL HAZARD:	This product is a non-combustible, inorganic, aqueous solution. The Uniform Fire Code health hazard classification for this product is: Corrosive (Alkaline) . Diluted solutions of this product can also be corrosive and may generate flammable / explosive Hydrogen gas on contact with some soft metals (such as Aluminum). It may produce hazardous mists or hazardous decomposition products.		
FIRE FIGHTING INSTRUCTIONS:	EXTINGUISHING MEDIA: Water, foam, CO ₂ or dry chemicals. Use a water spray or fog to cool the containers exposed to the heat of a fire.		
FIRE FIGHTING EQUIPMENT:	Fire fighters should wear full protective equipment, including self-contained breathing apparatus.		
HAZARDOUS COMBUSTION PRODUCTS:	When heated to dryness and decomposition, it emits toxic potassium oxide, and trace toxic oxide amounts of phosphorus, nitrogen, sulfur, iron, zinc, manganese, magnesium, calcium, sodium and carbon.		

SECTION 6: ACCIDENTAL RELEASE MEASURES

RELEASE TO LAND:	Wearing recommended protective equipment and clothing, dike the spill and pick up the bulk of liquid using pumps or a vacuum truck, or absorb the liquid in sand or a commercially absorbent material. Place in approved containers for recovery, disposal, or satellite accumulation. Neutralize the alkalinity, of the remaining liquid, using a dilute acid solution appropriate for neutralizing alkaline liquids. Liberally cover the spill area with sodium bicarbonate. Flush the spill area with water; collect the rinsates for disposal or sewer, as appropriate.
RELEASE TO WATER:	Wear recommended protective equipment and clothing if contact with hazardous material can occur. Stop or divert water flow. Dike contaminated water and remove for disposal and/or treatment. As appropriate, notify all downstream users of possible contamination.

SECTION 7: HANDLING AND STORAGE

STORAGE TEMPERATURE:	Ambient	STORAGE PRESSURE:	Ambient
GENERAL:	Store in a cool, dry, well-ventilated, area away from incompatible materials and products. Do not get this product in eyes, on skin, or on clothing. Wear recommended personal protective equipment when handling this product. Do not breathe mists. Use only with adequate ventilation. Do not take internally. Keep the containers tightly closed when not in use. Wash thoroughly after handling this product. This product is corrosive to Tin, Aluminum, Magnesium, Zinc and alloys containing these metals, and will react violently with these metals in powder form. Some heat may be generated when this product is mixed with water. Never add water to this product. Always add this product, with constant stirring, slowly to the surface of cool to lukewarm (50 – 80° F.) water.		

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL MEASURES: Use a local or general, mechanical exhaust ventilation system capable of maintaining emissions, in the work area, below the OSHA-PEL or ACGIH Ceiling level.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

RESPIRATOR: For exposure above the OSHA-PEL or ACGIH Ceiling level, or if use generates mists or aerosols, wear a NIOSH-approved full facepiece or half mask air-purifying cartridge respirator equipped with a good mist / particulate filter cartridge or supplied air. **Note:** Always consult the respirator manufacturer's data when determining the suitability of respiratory protective devices prior to use.

EYES: Wear chemical goggles (recommended by ANSI Z87.1-1979), unless a full facepiece respirator is worn. **Note:** Always consult the protective eyewear manufacturer's data when determining the suitability of protective eyewear prior to use.

GLOVES: Wear Neoprene, Nitrile, Butyl Rubber, Natural Rubber, or Viton gloves. **Note:** Always consult the glove manufacturer's permeation data when determining the suitability of gloves prior to use.

CLOTHING & EQUIPMENT: Wear a Neoprene, Nitrile, Butyl Rubber or Natural Rubber apron, or full protective clothing, when handling this product. An eye wash station and safety shower should be available in the work area. **Note:** Always consult the clothing/equipment manufacturer's permeation data when determining the suitability of clothing/equipment prior to use.

FOOTWEAR: Wear Neoprene, Nitrile, Butyl Rubber or Natural Rubber boots. **Note:** Always consult the footwear manufacturer's permeation data when determining the suitability of footwear prior to use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, amber	Bulk Density (pounds/ft³):	Not applicable
Physical State:	Liquid	Vapor Pressure:	No data available.
Odor:	Ammonia type	Vapor Density (air=1):	No data available
Odor Threshold:	No data available	Evaporation Rate (n-Butyl Acetate=1):	No data available
Molecular Formula:	Mixture	VOC Content / Organic Matter:	Nil / 0.02%
Molecular Weight:	Not applicable	% Volatile:	No data available
Boiling Point:	Greater than 100° C. (212° F.)	Solubility in H₂O:	Complete
Freezing/Melting Point:	Less than 0° C. (32° F.)	Octanol/Water Partition Coefficient:	No data available
Specific Gravity:	1.48 @ 20° C.	pH (as is):	≥14.0
Density (pounds/gallon):	Approximately 12.35	pH (1% solution):	12.5 to 13.5

SECTION 10: STABILITY AND REACTIVITY

GENERAL: This product is stable and hazardous polymerization will not occur.

CONDITIONS TO AVOID: Do not store this product below 50° F (10° C) or above 90° F (30° C)

INCOMPATIBLE MATERIAL: Acids and acidic salts, organic materials containing nitrogen, phosphorus, explosives, organic peroxides, organic compounds containing halogens, Aluminum, Magnesium, Zinc, Tin and alloys of these metals.

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to dryness and decomposition, it emits toxic oxides of potassium with trace toxic oxide amounts of phosphorus, nitrogen, sulfur, iron, zinc, manganese, magnesium, calcium, sodium and carbon.

SENSITIVITY TO MECHANICAL IMPACT: This product is not sensitive to mechanical impact.

SENSITIVITY TO STATIC DISCHARGE: This product is not sensitive to static discharge.

SECTION 11: TOXICOLOGICAL INFORMATION

Components:	<u>Potassium Hydroxide</u>
Eye Contact:	Rabbit: 1 mg/24 hours, rinsed; Moderate
Skin Contact:	Rabbit: 50 mg/24 hours; Severe
Oral Rat LD₅₀:	273 mg/kg
Dermal Rabbit LD₅₀:	Greater than 2 gm/kg
Inhalation Rat LC₅₀:	No data available
Human Data:	Dermal Human: 50 mg/24 hours; Severe
Other Toxicological Data:	No data available
Carcinogenicity:	No data available
Teratogenicity:	No data available
Mutagenicity:	Hamster Cytogenetic Analysis; ovary: 12 mmol/Liter
Synergistic Products:	None reported
Target Organs:	Eyes, Skin, Mucous membranes, Lungs & Gastrointestinal tract
Medical Conditions Aggravated By Exposure:	Skin, Respiratory or Cardiovascular disorders

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

This product is completely soluble in water. No specific environmental fate information is available. This product will significantly affect the pH of water.

ENVIRONMENTAL CONSIDERATIONS:

Aquatic toxicity rating for Potassium Hydroxide: 2 (TLM96: 100 to 10 ppm). TLM96 for Mosquito fish (*Gambusia affinis*) = 80 ppm. Lethal Dose (24 hour exposure): Trout = 50 ppm. Bluegills = 56 ppm. Minnows (*Lepomis pallidus*) = 28 ppm.

SECTION 13: DISPOSAL CONSIDERATIONS

RCRA 40 CFR 261 CLASSIFICATION: RCRA Corrosive Waste

U.S. EPA WASTE NUMBER/DESCRIPTION: D002

If this product is disposed of as shipped, it meets the criteria of a hazardous waste as defined under 40 CFR 261 due to its corrosivity. If this product becomes a waste, it will be a hazardous waste, which is subject to the Land Disposal Restrictions under 40 CFR 268 and must be managed accordingly. As a hazardous liquid waste, it must be disposed of in accordance with local, state and federal regulations in a permitted hazardous waste treatment, storage and disposal facility by treatment.

SECTION 14: TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Potassium hydroxide, solution
Hazard Class: 8 **UN Number:** UN1814 **Packing Group:** II
Primary Label: Corrosive **Subsidiary Label(s):** None Required
Primary/Subsidiary Placards: Corrosive

DOT Reportable Quantity (RQ): 1,000 pounds (KOH) **RQ for Product:** Approximately 2,222 pounds (181 gallons)
Marine Pollutant: No

2012 North American Emergency Response Guidebook No.: 154

TDG PROPER SHIPPING NAME: Ammonium hydrogen sulfate, solution
Hazard Class: 8 **UN Number:** UN1814 **Packing Group:** II
Primary Label: Corrosive **Subsidiary Label(s):** None Required
Primary/Subsidiary Placards: Corrosive

TDG Reportable Quantity (RQ): * At least 5kg or 5 liters
TDG Schedule XII: Not listed
Regulated Limit (RL): ** 50kg (KOH) **RL for Product:** Approximately 111.1 kg (75.7 liters)
Other Shipping Information: None

* Canadian Transportation of Dangerous Goods Regulations (TDGR), Part IX, Table I, Quantities or levels for Immediate Reporting: releases of reportable quantities, RQ, that meet the definition of a "dangerous occurrence" (a threat to life, health, property, or the environment) must be reported to the appropriate authorities as outlined in TDGR 9.13(1) and 9.14(1). ** Reporting to Environment Canada is required for any releases exceeding the regulated limits, RL, of 9.2 materials (primary or secondary). The regulated limits are found in Schedule XIII of the TDGR.

SECTION 15: REGULATORY INFORMATION

COMPONENTS: Potassium Hydroxide

OSHA Target Organs: Eyes, Skin, Mucous membranes, Lungs & Gastrointestinal tract

Carcinogenic Potential:

Regulated by OSHA: No
Listed on NTP Report: No
Listed by IARC: No
IARC Group: Not applicable
ACGIH Appendix A: Not listed
A1 Confirmed Human: Not applicable
A2 Suspected Human: Not applicable

U.S. EPA Requirements

Release Reporting

CERCLA (40 CFR 302)

Listed Substance: Yes
Reportable Quantity: 1,000 pounds
Category: C
RCRA Waste No.: None listed

Unlisted Substance: Not applicable
Reportable Quantity: Not applicable
Characteristic: Not applicable
RCRA Waste No.: Not applicable

SECTION 15: REGULATORY INFORMATION (Continued from page 5)

COMPONENTS: Potassium Hydroxide

SARA TITLE III

Section 302 & 303 (40 CFR 355):

Listed Substance: Not listed
Reportable Quantity: Not applicable
Planning Threshold: Not applicable

Section 311 & 312 (40 CFR 370):

Hazard Categories (product): **Fire:** N **Sudden Release of Pressure:** N **Reactive:** N **Acute Health:** Y **Chronic Health:** N
Planning threshold: 10,000 pounds

Section 313 (40 CFR 372):

Listed Toxic Chemical: Not listed
Reporting Threshold: Not applicable

U.S. TSCA Status

Listed (40 CFR 710): Yes

State Regulations

State of California: Safe Drinking Water and Toxins Enforcement Act, 1986 (Proposition 65):

Carcinogen: No
Reproductive Toxin: No

Other Regulations

State Right To Know Laws: MA, NJ, PA, CA

Canadian Regulations

Product Information:

Controlled Product: Yes
WHMIS Hazard Symbols: Corrosive Material
WHMIS Class & Division: E

Ingredient Information:

IDL Substance: Yes
DSL or NDSL Lists: DSL

SECTION 16: OTHER INFORMATION

EPA Registration number: Not applicable

Approved Product Uses: Used as part of a plant nutrition program.

Special Notes:

This product is not formulated to contain any substances, which the State of California has found to cause cancer and/or birth defects or other reproductive harm.

Special Instructions: Store Inhabit K FNV in a cool, dry, well-ventilated, area away from incompatible materials and products. Do not allow Inhabit K FNV to contact Aluminum, Magnesium, Zinc, Tin, or their alloys as this will generate flammable / explosive Hydrogen gas and severely corrode the metal.

MSDS Revision Information: Revised Date: 04/22/2024

MSDS Distributed by: FBN Inputs, LLC

Prepared By: Mandy Styles	Date Prepared: April 22, 2024
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