

SAFETY DATA SHEET

HI-K

SDS # : 50001142

Revision date: 27-04-2021

Version 2

Format: BR



Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name HI-K

Other means of identification

Product Code(s) 50001142, NP-0057-CR-A

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use: A fertilizer with micronutrients for use in agriculture and horticulture.

Restrictions on Use: Use as recommended by the label.

Details of the supplier of the safety data sheet

Supplier FMC Agro Limited
Rectors Lane
Pentre
Flintshire
CH5 2DH
United Kingdom
Tel: + 44 1244 537370
E-mail: fmc.agro.uk@fmc.com

Emergency telephone number

1 703 / 741-5970 (CHEMTREC - International)

911

Guatemala - Center of Toxicological Information and Assistance - (502) 2251-3560 / 2232-0735

El Salvador - Rosales National Hospital - (503) 2231-9262

Honduras - Hospital School - (504) 232-6105

Nicaragua - National Center of Toxicology - (505) 2289-4700 ext. 1294 cel. 8755-0983

Costa Rica - National Center of Poisoning - (506) 2223-1028

Panama Center of Research and Information on Medications and Toxicology (507) 523-4948

Section 2: HAZARDS IDENTIFICATION

GHS Classification

General Hazards

This material is considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 5
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

GHS Label elements, including precautionary statements



Signal Word

Danger

Hazard Statements

H303 - May be harmful if swallowed

H314 - Causes severe skin burns and eye damage

H335 - May cause respiratory irritation

Precautionary Statements - Prevention

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P271 - Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

P310 - Immediately call a POISON CENTER or doctor/ physician

P321 - Specific treatment (see .? on this label)

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P363 - Wash contaminated clothing before reuse

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P310 - Immediately call a POISON CENTER or doctor

P312 - Call a POISON CENTER or doctor if you feel unwell

P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

P405 - Store locked up

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Disposal

P501 - Dispose of contents/container according to label directions

Other Information

NOTE

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/preparation

Mixture

Chemical name	CAS-No	Weight %
Potassium carbonate	584-08-7	45-55

Section 4: FIRST AID MEASURES**FIRST AID MEASURES****General Advice**

Do not induce vomiting or give anything by mouth to an unconscious person. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Inhalation

Move to fresh air. Call a physician or poison control center immediately.

Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Call a physician immediately.
Eye Contact	Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a physician immediately.
Ingestion	Clean mouth with water. Do NOT induce vomiting. Immediate medical attention is required.
Protection of first-aiders	Avoid contact by using personal protective equipment. See Section 8 for more detail.

Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed	Causes serious eye damage. In case of skin contact, may cause burns, erythema, blisters or even necrosis. May be harmful if swallowed. May cause irritation of respiratory tract.
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Indication of any immediate medical attention and special treatment needed

Indication of immediate medical attention and special treatment needed, if necessary	Treat symptomatically.
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Section 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing agent suitable for type of surrounding fire. Cool containers / tanks with water spray.

Unsuitable extinguishing media

No information available.

Specific extinguishing methods

Evacuate area and fight fire from a safe distance.

Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

Specific Hazards Arising from the Chemical

Toxic fumes may be released in fire situations.

Hazardous Combustion Products

Carbon oxides (COx). Nitrogen oxides (NOx). Sulfur oxides.

Explosive properties

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Avoid contact with skin, eyes and clothing. For personal protection see section 8.
Other	For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
For emergency responders	Use personal protection recommended in Section 8.

Environmental Precautions

Environmental Precautions	Do not discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to the appropriate regulatory body.
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Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Clean contaminated surface thoroughly with excess of water. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Dispose of waste as indicated in Section 13.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling

Handling	Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage	Protect from freezing. Store above 5°C. Store in a well-ventilated place. Keep cool. Keep away from direct sunlight. Keep away from heat. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs.
Incompatible products	Strong oxidizing agents. Strong acids.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Appropriate engineering controls

Engineering measures	Ensure adequate ventilation, especially in confined areas.
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Individual protection measures, such as personal protective equipment

Eye/Face Protection	Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.
Skin and Body Protection	Wear long-sleeved shirt, long pants, socks, and shoes.
Hand Protection	Protective gloves
Respiratory Protection	Not required under normal use.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product.
General information	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Brown Liquid
Odor	Barely perceptible
Color	Brown
Odor threshold	No information available
pH	13-14
Melting point/freezing point	No information available
Boiling Point/Range	No information available
Flash point	No information available

Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative Density	1.5-1.55 @ 20 C
Water solubility	Soluble in water
Solubility in other solvents	No information available
Surface tension:	No data available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Corrosivity	Corrosive
Oxidizing properties	Non-oxidizing
Softening point	No information available
VOC content (%)	No information available
Relative density	No information available
Bulk density	No information available

Section 10: STABILITY AND REACTIVITY

Reactivity

Stable under recommended storage conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Decomposition can occur on exposure to heat or moisture.

Conditions to avoid

Excessive heat.

Incompatible materials

Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products

May emit toxic fumes under fire conditions. Carbon oxides (COx). Nitrogen oxides (NOx). Sulfur oxides. Potassium oxides.

Section 11: TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral 4073 mg/kg (Calculated Estimated Acute Toxicity - EAT)

Information on likely routes of exposure

Inhalation	May cause irritation of respiratory tract.
Eye Contact	Causes serious eye damage.
Skin Contact	Contact causes severe skin irritation and possible burns.
Ingestion	May be harmful if swallowed.

Information on toxicological effects

Symptoms Causes serious eye damage. Skin burns. Erythema, may cause blisters or even necrosis. May be harmful if swallowed. May cause irritation of respiratory tract.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
Mutagenicity	No information available.
Carcinogenicity	No information available.

Reproductive toxicity	No information available
Developmental toxicity	No information available.
Target organ effects	No information available.
Neurological effects	No information available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Persistence and degradability	No information available.
Bioaccumulation	No information available.
Mobility	Soluble in water.

Section 13: DISPOSAL CONSIDERATIONS

Disposal of residues / unused products	Transfer unused product to a suitable container and arrange for collection by a licensed disposal company. Washings or unused product must be sent to a water treatment facility. Do not contaminate ponds, waterways or ditches with chemical or used container.
Contaminated Packaging	Do not reuse this container for any other purpose. Dispose of in accordance with local regulations.

Section 14: TRANSPORT INFORMATION

IMDG/IMO:

UN/ID no	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s. (potassium carbonate solution)
Hazard class	8
Packing Group	II

ICAO:

UN/ID no	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s. (potassium carbonate solution)
Hazard class	8
Packing Group	II

ICAO/IATA:

UN/ID no	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s. (potassium carbonate solution)
Hazard class	8
Packing Group	II

MEX:

UN/ID no	UN1760
Proper Shipping Name	Corrosive liquid, n.o.s. (potassium carbonate solution)
Hazard class	8
Packing Group	II

Section 15: REGULATORY INFORMATION

This safety data sheet has been prepared according to Costa Rican legislation RTCR 481:2015 and RTCR 478:2015.

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Potassium carbonate 584-08-7	X	X	X	X	X	X	X	X

Section 16: OTHER INFORMATION

Prepared By: FMC Corporation
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Revision note Product code, Chemtrec number

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