

AGRICHEM INNOVATION INC

NK 3-0-10 Liquid complex fertilizer Safety Data Sheet

SECTION 1; identification of the substance/mixture and of the company undertaking

1.1 Product identifier

> Product form Liquid

Liquid complex fertilizer Product name

Product code NK 3-0-10

1.2 Relevant identified uses of the substance or mixture a uses advised against

Use of the substance/mixture: For crop production, other industry

1.4 Details of the supplier of the safety data sheet

UAB Agrichem Innovation

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33009, Florida, US T +1-804-500-2982

info@agricheminnovation.com www.agricheminnovation.com

Emergency telephone number

CHEMTREC: 1-800-424-9300 or 011-703-527-3887 Emergency number

SECTION 2; Hazards identification

2.1 Classification of the substance or mixture

GHS-US classification Skin Irrit, 2 H315 Eve Irrit. 2A H319

Full text of H-Phrases: see section 16

Label element

GHS-US labeling

Hazard pictograms (GHS-US)



GHS07

Signal word (GHS-US)

Hazard statements (GHS-US)

H315 - Causes skin irritation

H319 - Causes serious eye irritation

P264 - Wash exposed skin thoroughly after handling Precautionary statements (GHS-US)

Warning

P280 - Wear eye protection, protective gloves

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 -If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing P332+P313 -If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention

P362 - Take off contaminated do thing and wash before reuse

2.3 Other hazards

Other hazards not contributing to the classification

Non applicable

2.4 Unknown acute toxicity (GHS-US)

Non applicable

SECTION 3; Composition/information or ingredients

3.1 Substance

Potassium ions, Nitrate ions and water.

3.2 Mixture

Derived: from animal manure and mined source

Element	Element amount	Perecents	Product identifier
Nitrate Nitrogen (N-NO3)	2.90	%	(CAS No)
Potassium oxide (K2O)	9.77	%	(CAS No)
Water (H2O)	78.00	%	(CAS No) 7732-18-5

SECTION 4; First aids and measures

Description of first aid and measures

Never give anything by mouth to an unconscious person. If you feel unwell, seek First-aid measures general

medical advice (show the label where possible).

First-aid measures after inhalation Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin

irritation occurs: Wash immediately with lots of water. Get medical advice/attention.

First-aid measures after eve contact Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or

redness persist.

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

Most Important symptoms and effects, both acute and delayed

Symptoms /injuries after skin contact : Causes skin irritation. Symptoms / Injuries after eye contact : Causes serious eve irritation

4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5; Firefighting measures

5.1 Extinguishing media

Foam. Dry powder. Carbon dioxide. Water spray. Sand.: Suitable Unsuitable

Do not use a heavy water stream. extinguishing media

Special hazards arising from the substance or mixture

: Not flammable. Fire hazard : Not available **Explosion hazard**

5.3 Advice for firefighters

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Firefighting instructions

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6; Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures : Eliminate ignition sources. Evacuate area. Use protective clothing.

6.2 For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.3 For non-emergency responders

Protective equipment Equipment cleanup crew with proper

Emergency procedures protection. Ventilate area.

6.4 **Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.5 Methods and material for containment and cleaning up

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Methods for cleaning up

Collect spillage. Store away from other materials.

6.6 Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7 ; Handling and storage

Precautions for safe handling

Wash hands and other exposed areas. With mild soap and water before eating, Precautions for safe handling

drinking or smoking and when leaving work. Provide good ventilation in process area

to prevent formation of vapor.

Hygiene measures Wash exposed skin thoroughly after handling.

7.2 Precautions for safe storage, including any incompatibilities

Keep only in the original container in a cool, well ventilated place away from: Storage conditions

incompatible materials. Keep container closed when not in use.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

7.3 Specific end use (s)

No additional information available

SECTION 8; Exposure controls/personal protection

Control parameters

Ionitra fertilizer	
ACGIH	Not applicable
OSHA	Not applicable

8.2 Exposure controls

Emergence eye wash fountains and safety showers should be available in the Appropriate engineering controls

immediate vicinity of any potential exposure.

Personal protective equipment Avoid all unnecessary exposure.

Hand protection Wear protective gloves.

Eye protection Chemical goggles or safety glasses. Skin and body protection Wear suitable protective clothing.

Respiratory protection Wear appropriate mask.

Other information Do not eat, drink or smoke during use.

SECTION 9; Physical and chemical properties

Information on basic physical and chemical properties

Liquid Physical State Color No colorless None Odor

Odor threshold No data available No data available pH

pH solution

Relative evaporation rate (bulylacetate =1) No data available Melting point No data available Freezing point No data available Boiling point No data available Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative vapor density at 20 C No data available Relative density No data available

Solubility Water: Solubility in water of component(s) of the mixture:

• 100 %

No data available Log Pow No data available Log Kow Viscosity. kinematic No data available No data available Viscosity. dynamic Explosive properties No applicable No data available Oxidizing properties, No data available **Explosive limits**

9.1 Other information

SECTION 10; Stability and reactivity

10.1 Reactivity

No additional information available

10.2 Chemical stability

Not established.

10.3 Possibility of hazardous reactions

Not established.

Conditions to avoid

Direct sunlight. Extremely high ur low temperatures.

10.5 Incompatible materials

No additional information available

Strong acids. Strong bases.

Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

SECTION 11; Toxicological information

Information on toxicological effects

Not classified Acute toxically

Skin corrosion / irritation Causes skin Irritation. Serious eye damage / irritation Causes serious eye irritation.

Respiratory or skin sensitization Not classified Germ cell mutagenicily Not classified

Based on available data, the classification criteria are not met.

Carcinogenicity Not classified Reproductive toxicity Not classified

Based on available data, the classification criteria are not met.

Not classified Specific target organ toxically (single exposure) Specific target organ toxically (repeated exposure) Not classified Not classified Aspiration hazard

Potential adverse human health effects and

symptoms

Based on available data the classification criteria are not met.

SECTION 12; Ecological information

12.1 Toxicity

Potassium Nitrate (7757-79-1)

LC50 fishes 1 162 mg/l (96 h; Pisces; Lethal) LC50 other aquatic organisms 1 39 mg/l (96 h; Daphnia magna)

EC50 other aquatic organisms 1 200 - 1000 mg/l (Plankton; Motivity test)

LC50 fish 2 1378 mg/l (Poecilia reticulata) LC50 other aquatic organisms 2 490 mg/l (48 h; Daphnia magna)

3000 mg/l (96 h; Lepomis macrochirus) TLM fish 1 TLM fish 2 162 mg/l (96 h; Gambusia affinis) Threshold limit other aquatic organisms 1 39 mg/l (96 h; Daphnia magna) Threshold limit other aquatic organisms 2 490 mg/l (48 h; Daphnia magna)

Persistence and degradability

Potassium Nitrate solution

Persistence and degradability Not established.

Potassium Nitrate (7757-79-1)

Persistence and degradability Biodegradability: not applicable.

Biochemical oxygen demand (BOD) Not applicable Chemical oxygen demand (COD) Not applicable **THOD** Not applicable BOD (% of THOD) Not applicable Water (7732-18-5)
Persistence and degradability
Not established.

2.3 Bio accumulative potential

Potassium Nitrate Solution

Bio accumulative potential Not established

Potassium Nitrate (7757-79-1)

Bio accumulative potential No bio accumulation data available

Water (7732-18-5)

Bio accumulative potential Not established

12.4 Mobility in soil

No additional information available

12.5 Other adverse effects

Effect on ozone layer:

Effect on the global warming: No known ecological damage caused by this product.

Other information: Avoid release to the environment.

SECTION 13; Disposal considerations

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials: Avoid release to the environment.

SECTION 14; Transport information

In accordance with DOT Not regulated for transport

dditional information

Other information: No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15; Regulatory information

15.1 US Federal regulations

Potassium and Nitrate ions solution

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 313 - Emission Reporting 1 % Nitrate compounds (water dissociable)

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 US Federal regulations

CANADA

Potassium and Nitrate ions solution

WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Potassium and Nitrate ions solution

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Class C - Oxidizing Material

Class D Division 2 Subdivision B - Toxic material causing other toxic effects

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

EU-Regulations

Classification according to Regulation (EC) No. 1272/2008 [CLP] Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.3 National regulations

Potassium and Nitrate ions solution

Not listed on the Canadian IDL (Ingredient Disclosure List)

Water (7732-18-5

Not listed on the Canadian IDL (Ingredient Disclosure List)

SECTION 16; Other information

Indication of changes: Other information:

Revision - See: *. None.

Full text of H-phrases: see section 16:

Eye Irrit 2A	Serious eye damage/eye irritation, Category 2A	
Ox. Sol. 3	Oxidizing Solid's, Category 3	
Skin Irrit 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity - Single exposure, Category 3,	
	Respiratory tract irritation	
H272	May intensify fire; oxidizer	
H315	Causes skin irritation	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	

NFPA health hazard

NFPA fire hazard NFPA reactivity

- 1 $\rm Exposure$ could cause irritation but only minor residual injury even if no treatment is given.
- 0-Materials that will по burn.
- 0-Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS 111 Rating

1 Slight Hazard - Irritation or minor reversible injury possible Health

0 Minimal Hazard Flammability 0 Minimal Hazard Physical В

Personal Protection