

Safety Data Sheet

34-0-9

SECTION 1. IDENTIFICATION

Product Identifier 34-0-9

Recommended Use Controlled Release Fertilizer for short cut turf - golf (fairways), commercial turf, sports fields, home owners.

Manufacturer Haifa North America, 307 Cranes Roost Blvd, Suite 2030, Altamonte Springs, Florida, 32701, Northamerica@haifa-group.com

Emergency Phone No. Haifa MSDS , 972-4-8469603/4

Date of Preparation January 08, 2015

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not classified under any GHS hazard classes.

GHS Label Elements

Not applicable

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	LD50 (Oral)
Urea	57-13-6	80-83	8471 mg/kg (rat)
Iron Sulfate	7782-63-0	2-4	1520 mg/kg (mouse)

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. If ammonia gas is inhaled from heated fertilizer and breathing has stopped, begin artificial respiration. Get medical advice/attention if you feel unwell or are concerned.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. Get medical advice/attention if you feel unwell or are concerned.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice/attention.

Ingestion

Immediately call a Poison Centre or doctor. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use flooding quantities of water spray or fog.

Specific Hazards Arising from the Chemical

Do not inhale decomposition fumes. Mild oxidizer. May intensify fire.

Special Protective Equipment and Precautions for Fire-fighters

Wear SCBA and full protective clothing. Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Contain the spill.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Avoid generating dust. Shovel or sweep up and reuse.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid generating dusts. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

Store in an area that is: dry, well-ventilated. Store in the original, labelled, shipping container. Keep out of reach of children.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Urea					10 mg/m3	

Appropriate Engineering Controls

Use a local exhaust ventilation and enclosure, if necessary, to control amount in the air. Applicators should stand upwind.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an appropriate cartridge. 3M8210 or better.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Multicoloured prills.
Odour	Slight metallic odour
Odour Threshold	Not applicable

pH	Not available
Melting Point/Freezing Point	Not applicable (melting); Not applicable (freezing)
Initial Boiling Point/Range	Not applicable
Flash Point	Not available
Evaporation Rate	Not applicable
Flammability (solid, gas)	Will not burn.
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	Not available
Solubility	Not applicable in water; Not applicable (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not applicable
Viscosity	Not applicable (kinematic)
Other Information	
Physical State	Solid

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Mild oxidizer. May intensify fire.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Decomposes in the presence of heat. See "Hazardous Decomposition Products".

Conditions to Avoid

Heat. Water, moisture or humidity.

Incompatible Materials

Increased risk of fire and explosion on contact with: reducing agents (e.g. hydroquinone), organic acids (e.g. acetic acid).

Hazardous Decomposition Products

Oxygen (a strong oxidizer); corrosive, oxidizing nitrogen oxides; corrosive, flammable ammonia; corrosive sulfur oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 (oral)	
Iron Sulfate	1520 mg/kg (mouse)	
Urea	8471 mg/kg (rat)	

Skin Corrosion/Irritation

May cause skin irritation. May cause rash
Contact with heated material may cause thermal burns.

Serious Eye Damage/Irritation

May cause moderate aggravation. Abrasive action of dust particulate can damage eye.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May lead to respiratory irritation.

Skin Absorption

Not absorbed through skin.

Ingestion

If large amounts are swallowed in severe cases, symptoms may include increased or decreased urination, nausea, vomiting, confusion and fatigue.

Respiratory and/or Skin Sensitization

Not known to be a skin sensitizer. Respiratory sensitizer.

Carcinogenicity

Not known to cause cancer.

Reproductive Toxicity

Development of Offspring

Not known to harm the unborn child.

SECTION 12. ECOLOGICAL INFORMATION

This section is not required by OSHA. This section is not required by WHMIS.

Toxicity

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Urea		3910 mg/L (Daphnia magna (water flea); 48-hour)		

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG Regulations. Not regulated under US DOT Regulations.

Special Precautions for User Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS Classification

Not a WHMIS controlled product.

SECTION 16. OTHER INFORMATION

SDS Prepared By MPPI Technical Department

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Disclaimer

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