

HexaMax

SECTION 1. IDENTIFICATION

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|---|--|
| Product Identifier | HexaMax |
| Other Means of Identification | Liquid micronutrient fertilizer |
| Recommended Use | The user should seek the advice of the county agricultural representative or a professional agricultural consultant. |
| Restrictions on Use | None known. |
| Manufacturer/Supplier Identifier | NutriAg Limited, 39 Gail Grove, Toronto, Ontario, M9M 1M5 |
| Emergency Phone No. | Canutec, 613-996-6666, 24 hours |
| SDS No. | 0169 |
| Date of Preparation | November 29, 2017 |

SECTION 2. HAZARD IDENTIFICATION

Classification

Respiratory sensitization - Category 1; Skin sensitization - Category 1; Carcinogenicity - Category 1B; Reproductive toxicity - Category 1B; Specific target organ toxicity (repeated exposure) - Category 2

Label Elements



Signal Word:

Danger

Hazard Statement(s):

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause cancer.

May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Contains 28.4 to 34.5% of ingredients with unknown toxicity (Inhalation)

Contains 26.0 to 32.0% of ingredients with unknown toxicity (Dermal)

Contains 19.0 to 22.0% of ingredients with unknown toxicity (Oral)

Precautionary Statement(s):

Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe mist, vapours, spray.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/protective clothing/eye protection/face protection.

In case of inadequate ventilation wear respiratory protection (NIOSH approved particulate respirator with N95, R95, or P95 filter).

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Response:

IF ON SKIN: Wash with plenty of water.

IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see supplemental first aid instruction on this label).

If skin irritation or rash occurs: Get medical advice/attention.

If experiencing respiratory symptoms: Call a POISON CENTRE/doctor/

Wash contaminated clothing before reuse.

Storage:

Store locked up.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards

Health Hazards Not Otherwise Classified (HHNOC).

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

| Chemical Name | CAS No. | % | Other Identifiers | Other Names |
|--------------------------|---------|---------|-------------------|-------------|
| Withheld as trade secret | CBI | 4-5 | N/A | |
| Withheld as trade secret | CBI | 2-3 | N/A | |
| Withheld as trade secret | CBI | 1-2 | N/A | |
| Withheld as trade secret | CBI | 0.3-0.5 | N/A | |

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air.

Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation occurs, get medical advice or attention. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts).

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 or attention.

Ingestion

Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If on skin: may cause mild irritation. If in eyes: may cause mild irritation.

Immediate Medical Attention and Special Treatment

Target Organs

Eyes, skin, respiratory system.

Special Instructions

None known.

Medical Conditions Aggravated by Exposure

Dermatitis.

SECTION 5. FIRE-FIGHTING MEASURES

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Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Does not burn.

In a fire, the following hazardous materials may be generated: carbon monoxide, carbon dioxide and nitrogen oxides. When heated to decomposition it may emit acrid smoke and fumes.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

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.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Large spills or leaks: dike spilled product to prevent runoff.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Transfer equipment should be constructed of chemical-resistant plastic or stainless steel. Do not store in aluminum or steel containers. Wear chemically protective equipment during handling. Use in a well-ventilated area. Do not breathe vapours or mists. Avoid contact with eyes, skin and clothing. Do not wear contact lenses while handling this material. Wash thoroughly after handling. Keep away from extreme heat and flame. Use caution when opening containers.

Conditions for Safe Storage

Store in an area that is: ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity). Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Chemical Name | ACGIH TLV® | | OSHA PEL | | AIHA WEEL | |
|--------------------------|---------------|------|----------|---------|-----------|-----|
| | TWA | STEL | TWA | Ceiling | 8-hr TWA | TWA |
| Withheld as trade secret | 0.02 mg/m3 | | | | | |
| Withheld as trade secret | 0.1 mg/m3 (I) | | 1 mg/m3 | | | |
| Withheld as trade secret | 0.2 mg/m3 | | | 5 mg/m3 | | |

Appropriate Engineering Controls

General ventilation is usually adequate. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

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

Respiratory Protection

In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

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|---|--|
| Appearance | Dark blue. |
| Odour | Odourless |
| Odour Threshold | Not available |
| pH | 7 - 8 (saturated solution) |
| Melting Point/Freezing Point | Not available (melting); Not available (freezing) |
| Initial Boiling Point/Range | Not available |
| Flash Point | Not available |
| Evaporation Rate | Not available |
| Flammability (solid, gas) | Not available |
| Upper/Lower Flammability or Explosive Limit | Not available (upper); Not available (lower) |
| Vapour Pressure | Not available |
| Vapour Density (air = 1) | Not available |
| Relative Density (water = 1) | 1.35 - 1.36 at 20 °C (68 °F) |
| Solubility | Soluble in water |
| Partition Coefficient, n-Octanol/Water (Log Kow) | Not available |
| Auto-ignition Temperature | Not available |
| Decomposition Temperature | Not available |
| Viscosity | Not available (kinematic); Not available (dynamic) |
| Other Information | |
| Physical State | Liquid |

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions of use.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Freezing. Heat. Incompatible materials.

Incompatible Materials

Metals (e.g. aluminum), oxidizing agents (e.g. peroxides), reducing agents (e.g. hydroquinone), strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide).

Carbon steel, aluminum alloys.

Hazardous Decomposition Products

When heated to decomposition it emits acrid smoke and irritating fumes.

Carbon monoxide and carbon dioxide

Nitrogen Oxides.

Sulfur Oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact; eye contact; ingestion.

Acute Toxicity

| Chemical Name | LC50 | LD50 (oral) | LD50 (dermal) |
|--------------------------|-----------------------------------|----------------------|--------------------|
| Withheld as trade secret | | 600-2420 mg/kg (rat) | |
| Withheld as trade secret | | 766 mg/kg (rat) | > 2000 mg/kg (rat) |
| Withheld as trade secret | 2.48 mg/L (rat) (4-hour exposure) | 264 mg/kg (rat) | |
| Withheld as trade secret | | 782 mg/kg (rat) | |

Skin Corrosion/Irritation

May cause skin irritation.

Serious Eye Damage/Irritation

May cause serious eye irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May be harmful.

Skin Absorption

May be harmful.

Ingestion

May be harmful.

Aspiration Hazard

Not classified.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Symptoms may include dry, red, cracked skin (dermatitis).

Respiratory and/or Skin Sensitization

Respiratory sensitizer.

Skin sensitizer.

Carcinogenicity

May cause cancer.

Reproductive Toxicity

Development of Offspring

May harm the unborn child.

Sexual Function and Fertility

May cause effects on sexual function and/or fertility.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

Not classified.

Interactive Effects

Not Classified.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Maybe harmful to aquatic life.

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Acute Aquatic Toxicity

| Chemical Name | LC50 Fish | EC50 Crustacea | ErC50 Aquatic Plants | ErC50 Algae |
|--------------------------|---|----------------|----------------------|-------------|
| Withheld as trade secret | 0.0068-0.0156 mg/L (Pimephales promelas (fathead minnow); 96-hour) | | | |
| Withheld as trade secret | 22-48 mg/L (Pimephales promelas (fathead minnow); 96-hour) | | | |
| Withheld as trade secret | 1.28 mg/L (Oncorhynchus mykiss (rainbow trout); 96-hour) | | | |
| Withheld as trade secret | 30.6 mg/L (Pimephales promelas (fathead minnow); 96-hour) | | | |

Persistence and Degradability

Not established.

Bioaccumulative Potential

Not Established.

Mobility in Soil

Not established.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable federal, provincial, and local regulations.

SECTION 14. TRANSPORT INFORMATION

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

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

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed, or not specifically listed.

CEPA - National Pollutant Release Inventory (NPRI)

Part 1A. Nickel (and its compounds)

Part 1A. Cobalt (and its compounds).

USA

Toxic Substances Control Act (TSCA) Section 8(b)

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Not specifically listed.

SECTION 16. OTHER INFORMATION

| | | | |
|------------------------------|---|-------------------------|------------------------|
| NFPA Rating | Health - 2 | Flammability - 0 | Instability - 0 |
| SDS Prepared By | NutriAg Limited | | |
| Phone No. | 416-636-1555 | | |
| Date of Preparation | November 29, 2017 | | |
| Date of Last Revision | November 29, 2017 | | |
| Revision Indicators | Version 1.0 | | |
| References | CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). | | |
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