



Safety Data Sheet

Report Date 16-May-15

Page 1 of 4

1. Identification

Product Name : CORON 18-2-4 (CODE 50) (T&O)
Synonyms : None
Product Use : Controlled Release Turf/Horticultural Fertilizer
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Warning
Skin Irritation : Prolonged or repeated skin contact may irritate slightly.
Eye Irritation : Contact with liquid or mist may irritate the eyes.
Acute Toxicity Oral : No LD50 available.
Acute Toxicity Dermal : No LD50 available.

Hazard Categories : Oral/Dermal/Inhalation Toxicity - 5/5/5; Eye Irritation - 2A; Skin Irritation - 3

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes serious eye irritation
Causes mild skin irritation
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from urea, methylene diurea, methylene ureas, phosphoric acid and potassium carbonate.	Proprietary	100.00
GUARANTEED ANALYSIS:		
Total Nitrogen (N):		18.00%
9.00% Urea Nitrogen		
9.00% Water Soluble Nitrogen		
Available Phosphate (P2O5):		2.00%
Soluble Potash (K2O):		4.00%

4. First Aid Measures

Eye : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

Skin : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Ingestion : Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.



Safety Data Sheet

Report Date 16-May-15

Page 2 of 4

Indication of Immediate Medical Attention and Special Treatment Needed : In the event of an adverse response, treatment should be directed toward control of the symptoms.

5. Fire Fighting Measures

- Extinguishing Media** : Non-combustible product. Use extinguishing media suitable for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : Product generates toxic and irritating fumes under fire conditions.
- Special Fire Fight Proc** : Wear positive pressure self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Contain spill to prevent spreading to soil, water, drains or sewers.
- Methods and Materials for Containment and Cleanup** : If uncontaminated, recover and reuse product. If contaminated, absorb on sand or clay and place in a recovery drum for proper disposal.

7. Handling and Storage

- Precautions for Safe Handling** : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.
- Conditions for Safe Storage** : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

8. Exposure Controls / Personal Protection

- TLV/PEL** : PEL and TLV for Phosphoric Acid = 1 mg/m³
- Appropriate Engineering Controls** : Local exhaust sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

- Odor/Appearance** : Clear, light green liquid with ammonia odor.
- Flash Point, °F** : Non-combustible
- Boiling Point, °F** : 102 Degrees C.
- Melting Point(Freezing point), °C** : 35 Degrees F.
- Vapor Pressure, mm Hg @ 20 °C** : 50 mmHg @ 21 Deg. C.
- Vapor Density** : Not applicable
- Solubility in Water** : Soluble
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.214-1.234
- Evaporation Rate(Butyl Acetate = 1)** : 0.03



Safety Data Sheet

Report Date 16-May-15

Page 3 of 4

Octanol/Water Partition Coefficient : No information found
pH : 10.8 to 11.4
Flammable Limits (approximate volume % in air) : Not applicable
Auto-ignition Temperature : Not applicable
Decomposition temperature : No information found

10. Stability and Reactivity

Reactivity : No information found
Chemical Stability : Stable
Hazardous Decomposition Products : Product may release ammonia and carbon dioxide under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid high temperatures above 105 Degrees F for prolonged periods.
Incompatible Materials : Avoid mixing or intimate contact with strongly acidic materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available. May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : No LD50 available. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No LC50 available. May be harmful if inhaled.
Likely Routes of Exposure : Skin and eyes
Skin Irritation : Prolonged or repeated skin contact with liquid may irritate slightly.
Eye Irritation : Contact with liquid or mist may irritate the eyes.
Skin Sensitization : No information found
Carcinogenic : None currently known.
Chronic Effects : None currently known.
Other Hazards : None currently known.

12. Ecological Information

Ecotoxicity : No information found
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : No information found
Other Adverse Effects : No information found

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : No information found



Safety Data Sheet

Report Date **16-May-15**

Page 4 of 4

Transport in Bulk : No information found
Special Precautions for Transportation : No information found
Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 1 Fire: 0 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 16-May-2015