

# SAFETY DATA SHEET

## HARVEST MORE 5-10-27

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Revision: 10/31/2018  
Supersedes Revision: 06/01/2016

### 1. Product and Company Identification

**Product Code:** Z-HMORE51027  
**Product Name:** HARVEST MORE 5-10-27  
**Company Name:** Stoller  
9090 Katy Freeway  
Suite 400  
Houston, TX 77024  
**Phone Number:**  
1 (713)461-1493  
**Web site address:** www.stollerusa.com  
**Email address:** compliance@stollerusa.com  
**Emergency Contact:** CHEMTREC, In the US and Canada call 1 (800)424-9300  
CHEMTREC, From other countries call +1 (703)527-3887  
**Information:** 1 (800)539-5283

### 2. Hazards Identification

**Acute Toxicity: Inhalation, Category 5**

**Acute Toxicity: Oral, Category 5**

**Acute Toxicity: Skin, Category 5**

**GHS Signal Word:** **Warning**

**GHS Hazard Phrases:** H303 - May be harmful if swallowed.  
H313 - May be harmful in contact with skin.  
H333 - May be harmful if inhaled.

**GHS Precautionary Phrases:** P260 - Do not breathe dust/fume/gas/mist/vapors/spray.  
P101 - If medical advice is needed, have product container or label at hand.  
P264 - Wash hands thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area.  
P232 - Protect from moisture.

**GHS Response Phrases:** P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P302+352 - IF ON SKIN: Wash with plenty of soap and water.  
P332+313 - If skin irritation occurs, get medical advice/attention.  
P304+341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

**GHS Storage and Disposal Phrases:** P402 - Store in a dry place. P404 - Store in a closed container.  
P501 - Dispose of contents/container to treatment at a permitted facility or as advised by your local regulatory authority.

**Potential Health Effects (Acute and Chronic):** Acute: May cause respiratory tract irritation. May cause skin irritation.

**Inhalation:** May be harmful if inhaled, may cause irritation of upper respiratory tract. If symptoms are present, remove the person from the contaminated area, put in a place free of contaminants, provide fresh air.

**Skin Contact:** May cause skin irritation. Wash skin with water. Remove contaminated clothing.

**Eye Contact:** May cause eye irritation. Immediately wash eyes with plenty of water for at least 15 minutes. Lifting eyelids to thoroughly wash all the the eye and connective tissue. Get medical attention immediately.

**Ingestion:** May be harmful if swallowed. Never supply anything by mouth to an unconscious person,

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make the patient drink several glasses of water, induce vomiting. Get medical attention immediately.

### 3. Composition/Information on Ingredients

| CAS #      | Components (Chemical Name)                  | Concentration | RTECS #   |
|------------|---------------------------------------------|---------------|-----------|
| 57-13-6    | Urea                                        | <15.0 %       | YR6250000 |
| 7447-40-7  | Potassium chloride                          | <30.0 %       | TS8050000 |
| 7722-76-1  | Monoammonium phosphate                      | <10.0 %       | NA        |
| 10043-52-4 | Calcium Chloride                            | < 5.0 %       | EV9800000 |
| 7791-18-6  | Magnesium chloride (hydrated)               | < 2.0 %       | OM2975000 |
| 10043-35-3 | Boric acid                                  | < 0.15 %      | ED4550000 |
| 7446-19-7  | Sulfuric acid, Zinc salt (1:1), monohydrate | < 0.5 %       | ZH5300000 |

### 4. First Aid Measures

|                                            |                                                                                                                                                                                              |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Emergency and First Aid Procedures:</b> | Victims of severe exposure to chemicals must be taken to health providing centers for medical attention. Always bring with victim a copy of label and SDS of product to health professional. |
| <b>In Case of Inhalation:</b>              | Seek medical attention if victim's breathing is difficult.                                                                                                                                   |
| <b>In Case of Skin Contact:</b>            | Seek medical attention if irritation occurs.                                                                                                                                                 |
| <b>In Case of Eye Contact:</b>             | Flush eyes with plenty of water for at least 15 minutes. Seek medical attention should severe irritation occurs.                                                                             |
| <b>In Case of Ingestion:</b>               | May cause irritation of the digestive tract with accompanying nausea, vomiting, and diarrhea.                                                                                                |
| <b>Note to Physician:</b>                  | Treat symptomatically and supportively.                                                                                                                                                      |

### 5. Fire Fighting Measures

|                                          |                                                                                                                                                                                               |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flash Pt:</b>                         | No data.                                                                                                                                                                                      |
| <b>Explosive Limits:</b>                 | LEL: No data. UEL: No data.                                                                                                                                                                   |
| <b>Autoignition Pt:</b>                  | No data.                                                                                                                                                                                      |
| <b>Suitable Extinguishing Media:</b>     | CO2 or Dry Powder.                                                                                                                                                                            |
| <b>Unsuitable Extinguishing Media:</b>   | Do not use direct water.                                                                                                                                                                      |
| <b>Fire Fighting Instructions:</b>       | None specific for this product, however, it is suggested that firefighters wear self-contained breathing apparatus (SCBA) and full protective equipment, such as chemical resistant clothing. |
| <b>Flammable Properties and Hazards:</b> | N.A.                                                                                                                                                                                          |
| <b>Hazardous Combustion Products:</b>    | Do not breathe smoke.                                                                                                                                                                         |

## 6. Accidental Release Measures

**Protective Precautions, Protective Equipment and Emergency Procedures:** In case of a large spill, clear and isolate the affected area and protect people. Such releases should be responded to by trained personnel using pre-planned procedures.

In the event of an incidental release, minimum Personal Protective Equipment must be worn: latex or rubber gloves and rubber boots, goggles or full face-shield, long-sleeved shirt and pants and NIOSH/OSHA approved dust respirator.

**Environmental Precautions:** Keep product from entering drains or other waterways in large quantities.

**Steps To Be Taken In Case Material Is Released Or Spilled:** It is necessary to contain the spill into the smallest area possible by sweeping, scooping, diking, etc. and recover the product into an appropriate container, labeling it accordingly for use as intended following original label directions.

If product is clean, use it as intended, following original label directions; should it get contaminated, salvage for proper disposal as waste.

## 7. Handling and Storage

**Precautions To Be Taken in Handling:** Avoid breathing dusts; use in a well ventilated location or wear an appropriate respirator.

**Precautions To Be Taken in Storing:** Keep container tightly closed in a dry and well-ventilated place.

**Other Precautions:** N.A.

## 8. Exposure Controls/Personal Protection

| CAS #      | Partial Chemical Name                       | OSHA TWA | ACGIH TWA                                             | Other Limits |
|------------|---------------------------------------------|----------|-------------------------------------------------------|--------------|
| 57-13-6    | Urea                                        | No data. | No data.                                              | No data.     |
| 7447-40-7  | Potassium chloride                          | No data. | TLV: 10 mg/m <sup>3</sup>                             | No data.     |
| 7722-76-1  | Monoammonium phosphate                      | No data. | TLV: 10 mg/m <sup>3</sup>                             | No data.     |
| 10043-52-4 | Calcium Chloride                            | No data. | TLV: 10 mg/m <sup>3</sup>                             | No data.     |
| 7791-18-6  | Magnesium chloride (hydrated)               | No data. | TLV: 10 mg/m <sup>3</sup>                             | No data.     |
| 10043-35-3 | Boric acid                                  | No data. | TLV: 2 mg/m <sup>3</sup><br>STEL: 6 mg/m <sup>3</sup> | No data.     |
| 7446-19-7  | Sulfuric acid, Zinc salt (1:1), monohydrate | No data. | TLV: 10 mg/m <sup>3</sup> as Zn                       | No data.     |

**Recommended Exposure Limits:** N.A.

**Respiratory Equipment (Specify Type):** Wear a NIOSH/OSHA approved respirator if working conditions require doing so.

**Eye Protection:** Safety glasses should be worn in any type of operation with chemicals.

**Protective Gloves:** Protective gloves, long sleeved shirt and long pants, as well as protective shoes should be worn as a good safety practice.

**Other Protective Clothing:** Long-sleeved shirt, long pants and protective shoes should be worn as a good safety practice.

**Engineering Controls (Ventilation etc.):** General ventilation is usually adequate. Local exhaust may be used depending on working conditions.

**Work/Hygienic/Maintenance Practices:** Do not eat, smoke or chew tobacco or gum when handling chemicals.

**Environmental Exposure Controls:** N.A.

## 9. Physical and Chemical Properties

|                                             |                                  |            |               |
|---------------------------------------------|----------------------------------|------------|---------------|
| <b>Physical States:</b>                     | [ ] Gas                          | [ ] Liquid | [ X ] Solid   |
| <b>Appearance and Odor:</b>                 | White fine powder, without odor. |            |               |
| <b>pH:</b>                                  | 1.5-1.7 - IN 10% SOL.            |            |               |
| <b>Melting Point:</b>                       | No data.                         |            |               |
| <b>Boiling Point:</b>                       | No data.                         |            |               |
| <b>Flash Pt:</b>                            | No data.                         |            |               |
| <b>Evaporation Rate:</b>                    | No data.                         |            |               |
| <b>Flammability (solid, gas):</b>           | Non-Flammable.                   |            |               |
| <b>Explosive Limits:</b>                    | LEL: No data.                    |            | UEL: No data. |
| <b>Vapor Pressure (vs. Air or mm Hg):</b>   | No data.                         |            |               |
| <b>Vapor Density (vs. Air = 1):</b>         | No data.                         |            |               |
| <b>Specific Gravity (Water = 1):</b>        | 1.04 - 1.06                      |            |               |
| <b>Solubility in Water:</b>                 | 100%                             |            |               |
| <b>Octanol/Water Partition Coefficient:</b> | No data.                         |            |               |
| <b>Autoignition Pt:</b>                     | No data.                         |            |               |
| <b>Decomposition Temperature:</b>           | No data.                         |            |               |
| <b>Viscosity:</b>                           | No data.                         |            |               |

## 10. Stability and Reactivity

|                                                   |                                 |                      |
|---------------------------------------------------|---------------------------------|----------------------|
| <b>Stability:</b>                                 | Unstable [ ]                    | Stable [ X ]         |
| <b>Conditions To Avoid - Instability:</b>         | Stable under normal conditions. |                      |
| <b>Incompatibility - Materials To Avoid:</b>      | No data available.              |                      |
| <b>Hazardous Decomposition or Byproducts:</b>     | No data available.              |                      |
| <b>Possibility of Hazardous Reactions:</b>        | Will occur [ ]                  | Will not occur [ X ] |
| <b>Conditions To Avoid - Hazardous Reactions:</b> | No data available.              |                      |

## 11. Toxicological Information

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Toxicological Information:</b>                         | N.A.<br>CAS# 57-13-6: Acute toxicity, LD50, Oral, Rat, 8471. MG/KG. Result: Autonomic Nervous System: Other (direct) parasympathomimetic. Behavioral: Coma. Gastrointestinal:Hypermotility, diarrhea. ; Gigena i Sanitariya, Mezhdunarodnaya Kniga, ul. B. Yakimanka, 39, 113095, Moscow 113095 Russia, Vol/p/yr: 51(6),8, 1986<br>CAS# 10043-52-4: Acute toxicity, LD50, Oral, Rat, 1.000 GM/KG. Result: Effects on Fertility: Abortion. ; Canadian Journal of Comparative Medicine and Veterinary Science., Vol/p/yr: 12,216, 1948<br>Acute toxicity, LD50, Intraperitoneal, Rat, 264.0 MG/KG. Result: Effects on Fertility: Abortion. ; Oyo Yakuri. Pharmacometrics., Oyo Yakuri Kenkyukai, CPO Box 180, Sendai 980-91 Japan, Vol/p/yr: 14,963, 1977<br>Acute toxicity, LDLO, Subcutaneous, Dog, 274.0 MG/KG. Result: Blood:Change in clotting factors. Blood:Changes in serum composition (e.g. Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels: Catalases. ; Abdernalden's Handbuch der Biologischen Arbeitsmethoden." (Leipzig, Ger. Dem. Rep.) Volume(issue)/page/year:, Vol/p/yr: 4,1316, 1935<br>Tumorigenic Effects:, TDLo, Oral, Rat, 112.0 GM/KG, 20 W. Result: Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Endocrine:Thyroid tumors. ; American Journal of Cancer., For publisher information, see CNREA8, New York, NY, Vol/p/yr: 23,550, 1935<br>CAS# 7791-18-6: Acute toxicity, LD50, Oral, Rat, 8100. MG/KG. Result: Effects on Fertility: Abortion. ; American Industrial Hygiene Association Journal., AIHA, 475 Wolf Ledges Pkwy., Akron, OH 44311, Vol/p/yr: 30,470, 1969<br>CAS# 10043-35-3: Acute toxicity, LD50, Oral, Rat, 2660. MG/KG. Result: Gastrointestinal:Hypermotility, diarrhea. Gastrointestinal:Nausea or vomiting. ; Journal of the American Medical Association, American Medical Association, 535 N. Dearborn St., Chicago, IL 60610, Vol/p/yr: 128,266, 1945 |
| <b>Irritation or Corrosion:</b>                           | N.A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Symptoms related to Toxicological Characteristics:</b> | N.A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Chronic Toxicological Effects:</b>                     | N.A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Carcinogenicity:</b>                                   | NTP? N.A. IARC Monographs? N.A. OSHA Regulated? N.A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## 12. Ecological Information

|                                            |                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General Ecological Information:</b>     | The available data on this material does not indicate any undue hazard to the environment under anticipated use and storage. All work practices must be aimed at preventing environmental contamination. Any waste due to spillage or leakage should be contained and disposed of accordingly, see above under Section 6 "Accidental Release Measures." |
| <b>Results of PBT and vPvB assessment:</b> | N.A.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Persistence and Degradability:</b>      | N.A.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Bioaccumulative Potential:</b>          | N.A.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Mobility in Soil:</b>                   | N.A.                                                                                                                                                                                                                                                                                                                                                    |
| <b>Other adverse effects:</b>              | N.A.                                                                                                                                                                                                                                                                                                                                                    |

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### 13. Disposal Considerations

**Waste Disposal Method:** Waste disposal must be done following all Federal, State and Local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local waste regulatory authority.

### 14. Transport Information

#### LAND TRANSPORT (US DOT):

**DOT Proper Shipping Name:** Not Regulated. Trade Name: HARVEST MORE 5-10-27

**DOT Hazard Class:**

**UN/NA Number:**

#### MARINE TRANSPORT (IMDG/IMO):

**IMDG/IMO Shipping Name:** Not Regulated. Trade Name: HARVEST MORE 5-10-27

#### AIR TRANSPORT (ICAO/IATA):

**ICAO/IATA Shipping Name:** Not Regulated. Trade Name: HARVEST MORE 5-10-27

### 15. Regulatory Information

**Regulatory Information:** TSCA Inventory: In compliance with inventory requirements for commercial purposes.

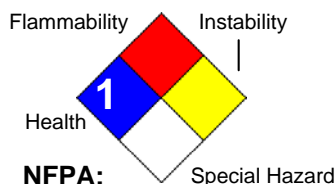
### 16. Other Information

**Revision Date:** 10/31/2018

**Hazard Rating System:**

|              |  |   |
|--------------|--|---|
| HEALTH       |  | 1 |
| FLAMMABILITY |  |   |
| REACTIVITY   |  |   |
| PPE          |  |   |

**HMIS:**



**Additional Information About This Product:** No data available.

**Company Policy or Disclaimer:**

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