

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** 20-20-20-UMAXX  
**Chemical Name:** Mix of Inorganic Salts  
**Guaranteed Analysis** 20%N, 20% P<sub>2</sub>O<sub>5</sub>, 20% K<sub>2</sub>O  
**CAS Registry Number:** Proprietary  
**Product Use:** Fertilizer – Dry. For Foliar or Soil Application  
**Manufacturer/Supplier:** Harrell's LLC, PO Box 807 Lakeland, FL 33802  
**Telephone: 863-687-2774**  
**Emergency Phone #s:** **FOR CHEMICAL EMERGENCY**  
 (Spill, Leak, Fire, Exposure or Accident) **1-800-424-9300**  
**FOR MEDICAL/HANDLING EMERGENCIES**  
**Chemtrec: 800-424-9300 • International: 1-800-424-9300**

**2. SIGNAL WORD: WARNING**



**Irritant**

**EMERGENCY OVERVIEW** Pale Blue Powder. Not flammable or explosive, but will decompose in extreme heat to produce toxic fumes of oxides of nitrogen ammonia, oxides of phosphorous, and oxides of potassium. This product contains an oxidizer and may increase the intensity of a fire.

**MAY CAUSE EYE, SKIN, AND RESPIRATORY IRRITATION.**

- Avoid contact with skin and clothing. Wash after handling.
- Wear appropriate personal protective equipment. (See Section 8 for additional information)

**Appearance and odor:** Pale Blue Powder, Odorless

**POTENTIAL HEALTH EFFECTS (See Section 11 for additional information)**

Primary Route (s) of Exposure:	Dermal Contact, Eye Contact, Inhalation, Ingestion
Acute Exposure:	
• Inhalation	No known significant effects or critical hazards
• Eye Contact	Irritating to eyes
• Skin Contact	Practically non-toxic in contact with skin. Irritation to skin.
• Ingestion	Practically non-toxic if swallowed.
Carcinogenicity:	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
Chronic Effect/Developmental	Repeated skin exposure can produce local skin destruction or dermatitis. Repeated exposure to the eyes to a low level of dust can produce eye irritation.
Medical Conditions Aggravated:	Skin conditions, Eye conditions, Gastrointestinal condition



**POTENTIAL ENVIRONMENTAL EFFECTS** (See Section 12 for additional information)

This material is a water pollutant. Do Not let spilled or leaking material enter waterways.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients (See Section 8 for Exposure Limits)	% (w/w)	CAS Number	Air Threshold Limit Value
Urea	22-24	57-13-6	15.00mgCO(NH <sub>2</sub> ) <sub>2</sub> /m <sup>3</sup>
Monoammonium Phosphate	32-34	7722-76-1	N/D
Potassium Nitrate	42-44	7757-79-1	N/D
Sodium Borate	<1	12280-03-4	10.00mgB <sub>2</sub> O <sub>3</sub> /m <sup>3</sup>
Cu EDTA	<1	14025-15-1	N/D
Fe EDTA	<1	15708-41-5	N/D
Mn EDTA	<1	15375-84-5	5.00mg Mn/m <sup>3</sup>
Sodium Molybdate	<1	10102-40-6	5.00mg Mo/m <sup>3</sup>
Zn EDTA	<1	14025-21-9	N/D
Dicyandiamide	<1	461-58-5	N/D
N-(n-butyl)-thiophosphoric triamide	<0.02	94317-64-3	N/D
N-Methyl-2-pyrrolidone	<0.02	872-50-4	N/D

**4. FIRST AID MEASURES**

- Inhalation:** If inhaled, remove to fresh air. If not breathing give artificial respiration. Get medical attention.
- Eye Contact:** Check for and remove any contact lenses. Rinse immediately with plenty of water. Get medical attention.
- Skin Contact:** Wash with soap and water. Get medical attention if symptoms occur.
- Ingestion:** Do Not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

**5. FIRE FIGHTING MEASURES**

- Conditions of Flammability:** Non Flammable
- Flash Point (Method):** N/A
- Auto-Ignition Temperature:** N/A
- Extinguishing Media:** This product is not flammable or combustible. If involved in a fire, use water fog or spray, dry chemical, foam or carbon dioxide extinguishing agents.
- Fire Fighting Procedures:** Wear self-contained breathing apparatus, approved by NIOSH. Do not wash material into any streams, waterways, drainage ditches, or storm sewers, etc. Impound liquids used in firefighting to prevent entry into streams, ditches, sewers, etc.
- Fire & Explosion Hazards:** Not flammable or explosive.
- Hazardous Combustion Products:** Oxides of nitrogen, phosphorus and potassium. Ammonia



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**Safety Data Sheet**  
**20-20-20-UMAXX**

	Health:	Fire:	Reactivity:	Other:
NFPA Hazard Rating	1	0	0	None
[ 0 – Minimal      1 – Slight      2 – Moderate      3 – High      4 – Extreme ]				

**6. ACCIDENTAL RELEASE MEASURES**

**Spill/Leak:** Safely stop source of spill. Restrict non-essential personnel from area. All personnel involved in spill clean up should avoid skin and eye contact by wearing appropriate personal protective equipment.

**Cleanup:** Sweep up spilled solid material, being careful not to create dust. Return sweepings to stock or, if contaminated, place into a chemical waste container for disposal according to local, state, and/or federal regulations.

**7. HANDLING AND STORAGE**

Store in cool, dry, well-ventilated area away from incompatible substances. Protect from physical damage. Avoid generating dust and the release of dust into the workplace. Refrain from eating, drinking, or smoking in work areas.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Applicable Exposure Limits:**

Chemical Name	OSHA – PELS (mg / m <sup>3</sup> )		ACGIH – TLVs (mg / m <sup>3</sup> )		NIOSH – RELS (mg / m <sup>3</sup> )	
	TWA	STEL/CEIL (C)	TWA	STEL/CEIL (C)	TWA	STEL/CEIL (C)
Urea	15 Total 5 Respirable	N/D	N/D	N/D	N/D	N/D
Monoammonium Phosphate	15 Total 5 Respirable	N/D	10 Total 3 Respirable	N/D	N/D	N/D
Potassium Nitrate	15 Total 5 Respirable	N/D	N/D	N/D	N/D	N/D
Copper Compounds	1	N/D	1	N/D	1	N/D
Iron Salts	N/D	N/D	1	N/D	1	N/D
Manganese Compounds	N/D	N/D	2	N/D	1	3
Zinc Compounds	15 Total 5 Respirable	N/D	2	10	5	15

[Ref: ACGIH Guide to Occupational Exposure Values, 2006 Edition]

**Legend:**

- |  |  |
|--|--|
| CEIL: Ceiling Exposure Limit                                     | PEL: Permissible Exposure Limit              |
| STEL: Short Term Exposure Limit                                  | REL: Recommended Exposure Limit              |
| N/D: Not Determined  | TLV: Threshold Limit Value                   |
| ACGIH: American Conference of Governmental Industrial Hygienists | TWA: Time-Weighted Average                   |
| NIOSH: National Institute for Occupational Safety and Health     | WEEL: Workplace Environmental Exposure Level |
| OSHA: Occupational Safety and Health Administration              |  |

**Personal Protective Equipment (PPE)**



**HARRELL'S LLC**  
**Safety Data Sheet**  
**20-20-20-UMAXX**

- **Protective Clothing:** The hazard potential of this material is low. Where there is large-scale use of this material and significant potential for worker contact, gloves and long sleeved work clothes or disposable coveralls may be necessary. Eye protection should be worn where dust is generated and there is a potential that eye contact may occur.
- **Ventilation:** Use adequate local or general ventilation where necessary to maintain the concentrations of dust well below the recommended occupational exposure limits for general particulates. Not Otherwise Specified (NOS).
- **Respirators:** Where dust is generated and cannot be controlled to within acceptable levels by engineering means, use appropriate NIOSH-approved respiratory protection equipment a 42CFR84 Class N, R or P-95 particulate filter cartridge.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State/Appearance/Odor:	Solid, pale blue powder, odorless	
Boiling Point:	N/A	
Bulk Density:	62 lbs/cubic foot	
Cloud Point:	N/A	
Evaporation Rate (Butyl Acetate=1):	N/A	
Melting Point:	N/A	
Odor Threshold:	N/A	
pH:	4.0-5.0 at 5% concentration	
Partition Coefficient (n-octanol/water):	N/A	
Pour Point:	N/A	
Solubility in water:	100% Soluble in Water	
Solubility in other solvents:	N/A	
Specific Gravity (H <sub>2</sub> O = 1) :	1.0g/cm <sup>3</sup>	
Vapor Density ( Air = 1):	N/A	
Viscosity:	N/A	
Volatiles (% by weight) :	N/A	
Other-Decomposition temperature	N/A	
Conditions of Flammability:	Non Flammable	
Flash Point (Method):	N/A	
Upper Flammable Limit (% by volume)	N/A	
Lower Flammable Limit (% by volume):	N/A	
Auto-Ignition Temperature	N/A	
<: less than	>: greater than	= : approximately

### **10. STABILITY AND REACTIVITY**

**Stability:** This product is stable at ambient temperatures and atmospheric pressures.  
**Incompatibilities/Conditions to avoid:** Avoid contact with strong alkaline or acid compounds.  
**Decomposition Products:** Ammonia. Oxides of Nitrogen, Phosphorous, and Potassium.

## 11. TOXICOLOGICAL INFORMATION

### TOXICITY DATA

Ingredient Name	TEST	RESULT	ROUTE	SPECIES
Urea	LD50	8417 mg/kg	ORAL	RAT
	LD50	11000 mg/kg	ORAL	MUS
	LDL0	16,000 mg/kg	SCU	BRD
Monoammonium Phosphate	LD50	2000 mg/kg	ORAL	RAT
	LD50	5000 mg/kg	DERMAL	RAT
Potassium Nitrate	LD50	1901 mg/kg	ORAL	RBT
	LD50	3750 mg/kg	ORAL	RAT
N-(n-butyl)-thiophosphoric triamide	LD50	>2000 mg/kg	DERMAL	RAT
	LD50	>2823 mg/kg	ORAL	RAT
N-Methyl-2-pyrrolidone	LD50	>5000 mg/kg	DERMAL	RAT
	LC50	>5.1 mg/kg	INHALATION	RAT
	LD50	3914 mg/kg	ORAL	RAT

- GENERAL:** The form in which this material is sold is considered to be relatively non-toxic.
- SKIN/EYE:** Direct contact may cause local irritation, but is not expected to cause significant tissue damage.
- INHALATION:** Acute inhalation may result in irritation, but is not expected to cause significant harmful effects. Symptoms may include discomfort, coughing, sneezing, and shortness of breath.
- INGESTION:** Ingestion of large doses can irritate the stomach, resulting in abdominal pain, nausea, diarrhea, and vomiting.

## 12. ECOLOGICAL INFORMATION

- Ecotoxicity:** No data available on the mixture. Components within the mixture can be damaging to aquatic organisms.
- Environmental Fate:** Product is not expected to bio accumulate. Release of components in this mixture to the aquatic environment can cause algae growth which may increase turbidity and displace oxygen resulting in a hazard to fish or other marine organisms. Will disperse with the current. Release to watercourses may cause effects down stream from the point of release. Avoid spills or release to watercourse.

## 13. DISPOSAL CONSIDERATIONS

- Waste & Container Disposal:** Do not wash down drain. Put uncontaminated material back into process if at all possible. Place contaminated material in suitable, labeled containers for disposal. Dispose of waste material consistent with the requirements of waste disposal authorities.



<b>14. TRANSPORT INFORMATION</b>	
<b>Shipping Information:</b>	Not regulated for transport
<b>Required Labels:</b>	N/A
<b>Environmentally Hazardous Substances [49 CFR 172.101, Appendix A]:</b>	N/A

<b>15. REGULATORY INFORMATION</b>		
<b>Regulatory Lists:</b>		
Ingredients listed on TSCA inventory	Yes	N-(n-butyl)-thiophosphoric triamide
Hazardous work hazard communication standard	No	
CERCLA Section 103 Hazardous Substances	No	
EPCRA Section 302 Extremely Hazardous Substance	No	
EPCRA Section 311/312 Hazard Categories	No	
EPCRA Section 313 Toxic Release Inventory	Yes	N-Methyl-2-pyrrolidone

<b>16. OTHER INFORMATION</b>	
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*The information in this Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. All information concerning this product and/or all suggestions for handling and use contained herein are offered in good faith and are believed to be reliable as of the date of publication PRO•SOL, however, makes no warranty as to the accuracy of and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. Buyer shall determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. The information contained herein supersedes all previously issued bulletins on the subject matter covered.*

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