Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Orchid 20-10-20 Urea Free

SECTION 1: Identification

Product Identifier

Product Name: Orchid 20-10-20 Urea Free

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Not determined or not applicable.
Uses Advised Against: Not determined or not applicable.
Reasons Why Uses Advised Against: Not determined or not applicable.

Manufacturer or Supplier Details

Manufacturer:
United States
GROW MORE INC
15600 NEW CENTURY DR.
GARDENA, CA 90248
3105151700
admin@growmore.com
www.growmore.com

Emergency Telephone Number:

United States
GROW MORE INC
310-515-1700 (1-800-424-9300)

SECTION 2: Hazard(s) Identification

GHS Classification:

Oxidizing gases, category 1
Skin irritation, category 2
Eye irritation, category 2A
Specific target organ toxicity - single exposure, category 3, respiratory tract irritation

Label elements

Hazard Pictograms:

Signal Word: Danger

Hazard statements:

H270 May cause or intensify fire; oxidizer
H315 Causes skin irritation
H319 Causes serious eye irritation
H335 May cause respiratory irritation

Precautionary Statements:

P264 Wash hands thoroughly after handling

P280 Wear protective gloves, protective clothing, eye protection and face protection.
P261 Avoid breathing dust, fumes, gas, mist, vapors or spray.
P271 Use only outdoors or in a well-ventilated area
P220 Store away from clothing and other combustible materials. See Section 7
P244 Keep reduction valves and fittings free from oil and grease
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).
P332+P313 If skin irritation occurs: Get medical advice and attention.
P362 Take off contaminated clothing and wash it before reuse
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 If eye irritation persists: Get medical advice and attention.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 Call a POISON CENTER if you feel unwell.
P370+P376 In case of fire: Stop leak if safe to do so
P403+P233 Store in a well-ventilated place. Keep container tightly closed
P405 Store locked up
P403 Store in a well-ventilated place
P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 6484-52-2	Ammonium Nitrate	<40
CAS Number: 7757-79-1	Potassium nitrate	<40
CAS Number: 7778-80-5	Potassium Sulfate	<5
CAS Number: 7722-76-1	Ammonium dihydrogenorthophosphate	<2
CAS Number: 7778-77-0	Potassium dihydrogenorthophosphate	<1

Additional Information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

SECTION 4: First Aid Measures

Description of First Aid Measures

General Notes:

Show this Safety Data Sheet to the doctor in attendance.

After Inhalation:

Immediately remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If

symptoms develop or persist, seek medical advice/attention.

After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. If dealing with a refrigerated liquefied gas, rinse affected areas with lukewarm water. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

After Eye Contact:

Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, seek medical advice/attention.

After Swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

This material is a gas under normal atmospheric conditions and ingestion is unlikely.

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Skin contact may result in redness, pain, burning and inflammation.

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Inhalation may have adverse effects on the respiratory tract. Symptoms may include cough, breathing difficulties, sore throat and inflammation of the mucous membrane lining the respiratory tract.

Inhalation exposure may cause central nervous system depression, headache, dizziness, drowsiness, wheezing, slowed reaction time, slurred speech, unconsciousness and asphyxiation without warning. Continuous inhalation may lead to respiratory difficulty and convulsions.

Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time).

Immediate Medical Attention and Special Treatment

Specific Treatment:

If respiratory symptoms persist, seek medical attention.

Notes for the Doctor:

Treat symptomatically.

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

Water mist/fog, carbon dioxide, dry chemical or regular foam.

Unsuitable Extinguishing Media:

Do not use water jet.

Specific Hazards During Fire-Fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

May cause or intensify fire: oxidizer. May ignite combustibles (wood, paper, oil, clothing, etc.). Vapors from liquefied gas are initially heavier than air and spread along ground. Runoff may create fire or explosion hazard. Containers may explode when heated. Ruptured cylinders may rocket. Vapors may cause dizziness or asphyxiation without warning. Contact with gas or liquefied gas may cause burns, severe injury and/or frostbite. Fire may produce irritating and/or toxic gases.

Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode. Use shielding to protect against bursting containers.

Special precautions:

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 500 meters in all directions. If tank/rail car/tank truck is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Use flooding quantities of water until well after fire is out for cooling fire exposed containers. Do not direct water at source of leak or safety devices; icing may occur. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Beware of possible container explosion. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not move cargo or vehicle if cargo has been exposed to heat. Do not handle damaged containers unless specialized to do so.

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Isolate area until gas has dispersed. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers unless wearing appropriate personal protective clothing. Do not touch or walk through spilled material. Avoid breathing dust, mist, fumes, vapors or spray. Stop leak if you can do it without risk. Keep combustibles (wood, paper, oil, etc.) away from spilled material. If possible, turn leaking containers so that gas escapes rather than liquid. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material. Do not direct water at spill or source of leak. Allow substance to evaporate. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Get special instructions before use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep valves and fittings free from oil and grease. Use explosion-proof electrical, ventilating and lighting equipment. Take action to prevent static discharges. Handle containers with caution. Immediately report leaks, spills or failures of the safety equipment. In the event of a spill or leak, exit the area immediately. Be very cautious about mixing oxidizers with water. Some oxidizers generate large amounts of heat when they are mixed with water. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with

skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use. Keep only in original packaging. Never return unused product to the original container, even if it does not appear to be contaminated.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Post warning signs. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Avoid storing large quantities, if possible. Keep container tightly sealed. Consider the use of leak detection systems. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

No occupational exposure limits noted for the ingredient(s).

Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. It is recommended to handle materials under a fume hood or other locally exhausted ventilation. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal Protection Equipment

Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. A lab coat must be worn. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance	Not determined or not available.
Odor	Not determined or not available.
Odor threshold	Not determined or not available.

pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

SECTION 10: Stability and Reactivity

Reactivity:
Not reactive under recommended handling and storage conditions.

Chemical Stability:
Stable under recommended handling and storage conditions.

Possibility of Hazardous Reactions:
Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to Avoid:
Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.

Incompatible Materials:
None known.

Hazardous Decomposition Products:
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Route	Result
Potassium nitrate	oral	LD50 Rat: >2000 mg/kg
	inhalation	LC50 Rat: >0.527 mg/L (4hr [dust])
	dermal	LD50 Rat: >5000 mg/kg

Name	Route	Result
Ammonium dihydrogenorthophosphate	dermal	LD50 Rat: > 5000 mg/kg
	oral	LD50 Rat: > 2000 mg/kg
	inhalation	LC50 Rat: > 5 mg/L (4 hr [dust])
Potassium dihydrogenorthophosphate	oral	LD50 Rat: >2000 mg/kg ([Read-across substance data])
	dermal	LD50 Rat: >2000 mg/kg ([Read-across substance data])
	inhalation	LC50 Rat: >0.83 mg/L (4 hr [dust, Read-across substance data])

Skin Corrosion/Irritation

Assessment:

Causes skin irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Potassium nitrate	Causes skin irritation.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Potassium nitrate	Causes serious eye irritation.

Respiratory or Skin Sensitization

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Potassium nitrate	Group 2A
Ammonium dihydrogenorthophosphate	Not Applicable
Potassium dihydrogenorthophosphate	Not Applicable

National Toxicology Program (NTP):

Name	Classification
Potassium nitrate	Not Applicable

Name	Classification
Ammonium dihydrogenorthophosphate	Not Applicable
Potassium dihydrogenorthophosphate	Not Applicable

OSHA Carcinogens: Not applicable

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Single Exposure)

Assessment:

May cause respiratory irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Potassium nitrate	May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Information on Likely Routes of Exposure:

No data available.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

Other Information:

No data available.

SECTION 12: Ecological Information

Acute (Short-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Potassium nitrate	Fish LC50 Oncorhynchus mykiss: >100 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 490 mg/L (48 hr [mobility])
Ammonium dihydrogenorthophosphate	Aquatic Plants EC50 Raphidocelis subcapitata: > 100 mg/L (72 hr [growth rate])
	Fish LC50 Oncorhynchus mykiss: > 100 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr [mobility])
Potassium dihydrogenorthophosphate	Fish LC50 Oncorhynchus mykiss: >100 mg/L (96 hr [mortality; Read-across substance data])
	Aquatic Invertebrates EC50 Daphnia magna: >100 mg/L (48 hr [mobility, Read-across substance data])
	Aquatic Plants EC50 Desmodesmus subspicatus: >100 mg/L (72 hr [growth rate, Read-across substance data])

Chronic (Long-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Potassium nitrate	Fish NOEC Pimephales promelas: 157 mg/L (32 d [growth rate])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Potassium nitrate	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.
Potassium dihydrogenorthophosphate	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Potassium nitrate	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.
Ammonium dihydrogenorthophosphate	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.
Potassium dihydrogenorthophosphate	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Potassium nitrate	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.
Ammonium dihydrogenorthophosphate	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.
Potassium dihydrogenorthophosphate	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.
vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment:

Potassium nitrate	PBT assessment does not apply to inorganic compounds such as this substance.
Ammonium dihydrogenorthophosphate	PBT assessment does not apply to inorganic compounds such as this substance.
Potassium dihydrogenorthophosphate	PBT assessment does not apply to inorganic compounds such as this substance.

vPvB assessment:

Potassium nitrate	vPvB assessment does not apply to inorganic compounds such as this substance.
Ammonium dihydrogenorthophosphate	vPvB assessment does not apply to inorganic compounds such as this substance.
Potassium dihydrogenorthophosphate	vPvB assessment does not apply to inorganic compounds such as this substance.

Other Adverse Effects: No data available.

SECTION 13: Disposal Considerations

Disposal Methods:

Dispose of in accordance with local, federal and state regulations.

Contaminated packages:

Not determined or not applicable.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	1486
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	5.1 
Packing Group	III
Environmental Hazards	None
Special Precautions for User	None

International Maritime Dangerous Goods (IMDG)

UN Number	1486
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	5.1 
Packing Group	III
Environmental Hazards	None

Special Precautions for User	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	1486
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	5.1 
Packing Group	III
Environmental Hazards	None
Special Precautions for User	None

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals:

7757-79-1	Potassium nitrate	Listed
7722-76-1	Ammonium dihydrogenorthophosphate	Listed

CERCLA: None of the ingredients are listed.

RCRA: None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

7757-79-1	Potassium nitrate	Listed

New Jersey Right to Know:

7757-79-1	Potassium nitrate	Listed

New York Right to Know:

7757-79-1	Potassium nitrate	Listed

Pennsylvania Right to Know:

7757-79-1	Potassium nitrate	Listed

California Proposition 65: None of the ingredients are listed.

Additional information: Not determined.

SECTION 16: Other Information

Abbreviations and Acronyms: None

Disclaimer:

Although the information and recommendations set forth in this sheet are believed to be correct as of the date hereof, Grow More, Inc. makes no representation as to the completeness or accuracy of such information and recommendations. Grow More, Inc. shall in no event be responsible for any damages of whatsoever nature or indirectly resulting from the publication or use of or reliance upon such information and recommendations. You are encouraged to advise anyone working with or exposed to such products of the information contained herein. No warranty either expressed or implied of merchantability or fitness or of any other nature with respect to the product or to the information and recommendations herein made

hereunder.

NFPA: 0-0-0
HMIS: 0-0-0
Initial Preparation Date: 12.10.2025

End of Safety Data Sheet