

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 05/02/2017

Reviewed on 05/02/2017

*** 1 Identification**

- **Product Identifier**
- **Trade name:** Grow More 20-10-20
- **Product Number:** GROWMORE-20-10-20
- **Relevant identified uses of the substance or mixture and uses advised against:** Fertilizer
- **Product Description** Fertilizer
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Grow More
15600 New Century Drive
Gardena, CA 90248
(310) 515-1700
www.growmore.com
- **Emergency telephone number:** (310) 515-1700

*** 2 Hazard(s) Identification**

- **Classification of the substance or mixture:**



GHS03 Flame over circle

Ox. Sol. 3 H272 May intensify fire; oxidizer.



GHS08 Health hazard

Repr. 1 H360 May damage fertility or the unborn child.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- **Label elements:**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS03



GHS07



GHS08

- **Signal word:** Danger

- **Hazard-determining components of labeling:**

Ammonium Nitrate

Ammonium phosphate monobasic

- **Hazard statements:**

H272 May intensify fire; oxidizer.

H315 Causes skin irritation.

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H319 Causes serious eye irritation.
 H360 May damage fertility or the unborn child.
 H335 May cause respiratory irritation.

Precautionary statements:

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat.
 P220 Keep/Store away from clothing/combustible materials.
 P221 Take any precaution to avoid mixing with combustibles.
 P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P264 Wash thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.
 43.5 % of the mixture consists of component(s) of unknown toxicity.

Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

NFPA ratings (scale 0 - 4)

The substance possesses oxidizing properties.

HMIS-ratings (scale 0 - 4)

HEALTH	1	Health = 1
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

Hazard(s) not otherwise classified (HNOC): None known

*** 3 Composition/Information on Ingredients**

Chemical characterization: Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

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Dangerous Components:		
CAS: 7757-79-1 RTECS: TT 3700000	Potassium Nitrate ⚠ Ox. Sol. 3, H272	25-50%
CAS: 6484-52-2 RTECS: BR9050000	Ammonium Nitrate ⚠ Ox. Sol. 3, H272; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	25-50%
CAS: 7722-76-1	Ammonium phosphate monobasic ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	15-35%
CAS: 10043-35-3 RTECS: ED 4550000	Boric Acid ⚠ Repr. 1B, H360	≤ 2.5%

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.

4 First-Aid Measures**Description of first aid measures:****General information:**

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

After swallowing: If swallowed and symptoms occur, consult a doctor.**Information for doctor:****Most important symptoms and effects, both acute and delayed:** No further relevant information available.**Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

*** 5 Fire-Fighting Measures****Extinguishing media:****Suitable extinguishing agents:** Use fire fighting measures that suit the environment.**Special hazards arising from the substance or mixture:**

During heating or in case of fire poisonous gases are produced.

Advice for firefighters:**Protective equipment:**

Mouth respiratory protective device.

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

*** 6 Accidental Release Measures****Personal precautions, protective equipment and emergency procedures:**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Do not allow to enter sewers/surface or ground water.

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Trade name: Grow More 20-10-20**· Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Sweep up the material.

Dispose contaminated material as waste according to section 13.

· Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· Protective Action Criteria for Chemicals**· PAC-1:**

7757-79-1	Potassium Nitrate	9 mg/m ³
6484-52-2	Ammonium Nitrate	6.7 mg/m ³
7722-76-1	Ammonium phosphate monobasic	17 mg/m ³
112926-00-8	Precipitated silica gel (Silica-Amorphous)	18 mg/m ³
10043-35-3	Boric Acid	6 mg/m ³
7631-95-0	Sodium Molybdate	3.2 mg/m ³
7783-20-2	Ammonium Sulfate	13 mg/m ³
1309-48-4	Magnesium Oxide	30 mg/m ³

· PAC-2:

7757-79-1	Potassium Nitrate	100 mg/m ³
6484-52-2	Ammonium Nitrate	73 mg/m ³
7722-76-1	Ammonium phosphate monobasic	190 mg/m ³
112926-00-8	Precipitated silica gel (Silica-Amorphous)	200 mg/m ³
10043-35-3	Boric Acid	23 mg/m ³
7631-95-0	Sodium Molybdate	17 mg/m ³
7783-20-2	Ammonium Sulfate	140 mg/m ³
1309-48-4	Magnesium Oxide	120 mg/m ³

· PAC-3:

7757-79-1	Potassium Nitrate	600 mg/m ³
6484-52-2	Ammonium Nitrate	440 mg/m ³
7722-76-1	Ammonium phosphate monobasic	1,100 mg/m ³
112926-00-8	Precipitated silica gel (Silica-Amorphous)	1,200 mg/m ³
10043-35-3	Boric Acid	830 mg/m ³
7631-95-0	Sodium Molybdate	100 mg/m ³
7783-20-2	Ammonium Sulfate	840 mg/m ³
1309-48-4	Magnesium Oxide	730 mg/m ³

*** 7 Handling and Storage****· Handling****· Precautions for safe handling:** Prevent formation of dust.**· Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Keep protective respiratory device available.

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- **Conditions for safe storage, including any incompatibilities:**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

* **8 Exposure Controls/Personal Protection**

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**
- **Components with occupational exposure limits:**
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

10043-35-3 Boric Acid

TLV	Short-term value: 6* mg/m ³ Long-term value: 2* mg/m ³ *as inhalable fraction
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- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Select glove material based on penetration times, rates of diffusion and degradation.

- **Material of gloves:**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**
The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

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Trade name: Grow More 20-10-20**· Eye protection:**

Tightly sealed goggles

*** 9 Physical and Chemical Properties****· Information on basic physical and chemical properties****· General Information****· Appearance:****Form:**

Crystalline

Color:

Blue green

· Odor:

Yeasty

· Odor threshold:

Not determined.

· pH-value:

Not applicable.

· Change in condition**Melting point/Melting range:**

Not determined.

Boiling point/Boiling range:

210 °C (410 °F)

· Flash point:

None

· Flammability (solid, gaseous):

Contact with combustible material may cause fire.

· Ignition temperature:

Not applicable

· Decomposition temperature:

Not determined.

· Auto igniting:

Product is not self-igniting.

· Danger of explosion:

Product does not present an explosion hazard.

· Explosion limits:**Lower:**

Not determined.

Upper:

Not determined.

· Vapor pressure:

Not applicable.

· Density:**Relative density:**

Not determined.

Vapor density:

Not applicable.

Evaporation rate:

Not applicable.

· Solubility in / Miscibility with:**Water:**

Insoluble.

· Partition coefficient (n-octanol/water): Not determined.**· Viscosity:****Dynamic:**

Not applicable.

Kinematic:

Not applicable.

· Solvent content:**Organic solvents:**

0.0 %

· Other information:

No further relevant information available.

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Trade name: Grow More 20-10-20**10 Stability and Reactivity**

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:**
Avoid strong oxidizers, acids and alkalis.
Extreme Heat
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

*** 11 Toxicological Information**

- **Information on toxicological effects:**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

7757-79-1 Potassium Nitrate

Oral | LD50 | 3750 mg/kg (Rat)

6484-52-2 Ammonium Nitrate

Oral | LD50 | 2217 mg/kg (Rat)

7722-76-1 Ammonium phosphate monobasic

Oral | LD50 | 5750 mg/kg (Rat)

Dermal | LD50 | 7640 mg/kg (Rabbit)

10043-35-3 Boric Acid

Oral | LD50 | 2660 mg/kg (Rat)

- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories:**

- **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

- **NTP (National Toxicology Program):**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

*** 12 Ecological Information**

- **Toxicity:**

- **Aquatic toxicity:**

7757-79-1 Potassium Nitrate

EC50 | 226 mg/l (Water flea)

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- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

*** 13 Disposal Considerations**

- **Waste treatment methods:**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

*** 14 Transport Information**

- **UN-Number:**
- **DOT, ADR/ADN, IMDG, IATA** UN1479
- **UN proper shipping name:**
- **DOT** Oxidizing solid, n.o.s. (Ammonium nitrate, Potassium nitrate)
- **ADR/ADN** UN1479 Oxidizing solid, n.o.s. (Ammonium nitrate, Potassium nitrate)
- **IMDG** OXIDIZING SOLID, N.O.S. (AMMONIUM NITRATE, POTASSIUM NITRATE), MARINE POLLUTANT
- **IATA** OXIDIZING SOLID, N.O.S. (AMMONIUM NITRATE, POTASSIUM NITRATE)
- **Transport hazard class(es):**
- **DOT**



- **Class:** 5.1 Oxidizing substances
- **Label:** 5.1

- **ADR/ADN, IMDG**



- **Class:** 5.1 Oxidizing substances

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Trade name: Grow More 20-10-20· **Label:** 5.1· **IATA**

· **Class:** 5.1 Oxidizing substances
 · **Label:** 5.1
 · **Packing group:** III
 · **DOT, ADR/ADN, IMDG, IATA**
 · **Environmental hazards:** Symbol (fish and tree)
 · **Special marking (ADR/ADN):** Warning: Oxidizing substances
 · **Special precautions for user:** F-A,S-Q
 · **EMS Number:** Ammonium compounds
 · **Segregation groups:** B
 · **Stowage Category** SG38 Stow "separated from" ammonium compounds.
 SG49 Stow "separated from" cyanides
 SG60 Stow "separated from" peroxides
 SG61 Stow "separated from" powdered metals
 · **Segregation Code**

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

· **Transport/Additional information:**· **DOT**

· **Quantity limitations:** On passenger aircraft/rail: 25 kg
 On cargo aircraft only: 100 kg

· **ADR/ADN**

· **Excepted quantities (EQ):** Code: E1
 Maximum net quantity per inner packaging: 30 g
 Maximum net quantity per outer packaging: 1000 g

· **IMDG**

· **Limited quantities (LQ):** 5 kg
 · **Excepted quantities (EQ):** Code: E1
 Maximum net quantity per inner packaging: 30 g
 Maximum net quantity per outer packaging: 1000 g

· **UN "Model Regulation":** UN 1479 OXIDIZING SOLID, N.O.S. (AMMONIUM NITRATE, POTASSIUM NITRATE), 5.1, III

***15 Regulatory Information**· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**· **SARA (Superfund Amendments and Reauthorization):**· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

7757-79-1 Potassium Nitrate

6484-52-2 Ammonium Nitrate

7783-20-2 Ammonium Sulfate

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· TSCA (Toxic Substances Control Act):		
7757-79-1	Potassium Nitrate	
6484-52-2	Ammonium Nitrate	
7722-76-1	Ammonium phosphate monobasic	
15708-41-5	EDTA feric sodium complex	
14025-21-9	Zinc EDTA	
14025-15-1	Copper EDTA	
15375-84-5	Mn EDTA, Diammonium Salt	
10043-35-3	Boric Acid	
7631-95-0	Sodium Molybdate	
7783-20-2	Ammonium Sulfate	
1309-48-4	Magnesium Oxide	
· California Proposition 65:		
· Chemicals known to cause cancer:		
None of the ingredients are listed.		
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients are listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients are listed.		
· Chemicals known to cause developmental toxicity:		
None of the ingredients are listed.		
· New Jersey Right-to-Know List:		
7757-79-1	Potassium Nitrate	
6484-52-2	Ammonium Nitrate	
112926-00-8	Precipitated silica gel (Silica-Amorphous)	
1309-48-4	Magnesium Oxide	
· New Jersey Special Hazardous Substance List:		
6484-52-2	Ammonium Nitrate	R3
· Pennsylvania Right-to-Know List:		
7757-79-1	Potassium Nitrate	
6484-52-2	Ammonium Nitrate	
7783-20-2	Ammonium Sulfate	
1309-48-4	Magnesium Oxide	
· Pennsylvania Special Hazardous Substance List:		
6484-52-2	Ammonium Nitrate	E
7783-20-2	Ammonium Sulfate	E
· Carcinogenic categories:		
· EPA (Environmental Protection Agency):		
10043-35-3	Boric Acid	I (oral)
· TLV (Threshold Limit Value established by ACGIH):		
10043-35-3	Boric Acid	A4

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1309-48-4	Magnesium Oxide	A4
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- **NIOSH-Ca (National Institute for Occupational Safety and Health):**

None of the ingredients are listed.

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms:**



GHS03 GHS07 GHS08

- **Signal word:** Danger

- **Hazard-determining components of labeling:**

Ammonium Nitrate

Ammonium phosphate monobasic

- **Hazard statements:**

H272 May intensify fire; oxidizer.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H360 May damage fertility or the unborn child.

H335 May cause respiratory irritation.

- **Precautionary statements:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat.

P220 Keep/Store away from clothing/combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

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- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of preparation / last revision:** 05/02/2017 / 1

- **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety and Health
OSHA: Occupational Safety & Health Administration
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Ox. Sol. 3: Oxidizing solids – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
Repr. 1: Reproductive toxicity – Category 1
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

- *** Data compared to the previous version altered.**

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