

**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 **STUMP REMOVER**
- **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.

- **Label elements:**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS03 GHS08

- **Signal word:** Danger
- **Hazard statements:**  
H272 May intensify fire; oxidizer.  
H360 May damage fertility or the unborn child.
- **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.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P308+P313 If exposed or concerned: Get medical advice/attention.  
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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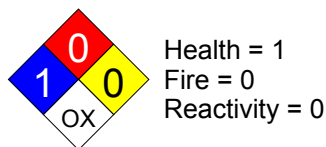
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**Trade name: Grow More STUMP REMOVER****· Unknown acute toxicity:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.

14.8 % 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)****· Hazard(s) not otherwise classified (HNOC):** None known**3 Composition/Information on Ingredients****· Dangerous Components:**

CAS: 7757-79-1	Potassium Nitrate	>94%
RTECS: TT 3700000	 Ox. Sol. 3, H272	

**· 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.**· Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically.

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**Trade name: Grow More STUMP REMOVER****· Information for doctor:****· Most important symptoms and effects, both acute and delayed:**

In case of inhalation: Irritation to respiratory tract

Delayed lung effects after short term exposure to thermal degradation products

In case of skin contact: May cause redness or irritation

In case of eye contact: May cause redness or irritation

In case of ingestion: Ingestion of large amounts may cause gastrointestinal disturbances.

**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:** Oxidizer. Contact with combustible materials will not cause spontaneous ignition, however, potassium nitrate will enhance an existing fire.

Thermal decomposition can lead to the escape of toxic/corrosive gases and vapours.

Thermal decomposition products: Nitrous oxides (NO<sub>x</sub>), potassium nitrate and potassium oxide.**· Advice for firefighters:****· Protective equipment:**

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. Keep upwind of fire.

**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.**· 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.

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**Trade name: Grow More STUMP REMOVER****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.
- **Conditions for safe storage, including any incompatibilities:**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Keep/store only in original container. Wooden pallets are allowed for storage (see NFPA 430). Store in a well-ventilated place. Keep container tightly closed. Do not store together with: Flammable substances, reducing agents, empty wooden pallets. Do not store of more than 3 pallets/big bags high.

**8 Exposure Controls/Personal Protection**

- **Exposure Guidelines**  
**Occupational exposure limits**  
Potassium Nitrate:  
OSHA                      PEL                      Not Established  
                                 STEL/ceiling       Not Established  
ACGIH (2012 TLVs and BEIs)  
                                 TWA                      Not Established  
                                 STEL/ceiling       Not Established

**Derived No-Effect Level (DNEL) suggested by the manufacturer**

Workers (industrial/professional):	
DNEL Human, dermal, long term (repeated):	20.8 mg/kg/day (systemic)
DNEL Human, inhalation, long term (repeated):	36.7 mg/m <sup>3</sup> (systemic)

Derived No-Effect Level (DNEL) is the level of exposure to the substance above which humans should not be exposed.

**Engineering controls**

Use exhaust ventilation to keep airborne concentrations below exposure limits.

- **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.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.

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**Trade name: STUMP REMOVER****· 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.

**· Eye protection:**

Tightly sealed goggles

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

Solid, prilled or crystalline

**Color:**

White

**· Odor:**

Odorless

**· Odor threshold:**

Not determined.

**· pH-value:**

8-11 (5% aqueous solution)

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

335°C / 635°F at 1013 hPa

**Boiling point/Boiling range:**

Not applicable

**· Flash point:**

Not applicable

**· Flammability (solid, gaseous):**

Not flammable

**· Ignition temperature:**

Not applicable

**· Decomposition temperature:**

&gt; 600°C / 1112°F

**· Auto igniting:**

Product is not self-igniting.

**· Danger of explosion:**

Product does not present an explosion hazard.

**· Explosion limits:****Lower:**

Not applicable

**Upper:**

Not applicable.

**· Vapor pressure:**

Not applicable.

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- **Density:**
  - Relative density:** 2.1 at 20° C/68° F
  - Vapor density:** Not applicable.
  - Evaporation rate:** Not applicable.
- **Solubility in / Miscibility with:**
  - Water:** > 100 g/L at 25°C / 77°F (water)
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not applicable.
  - Kinematic:** Not applicable.
- **Oxidising properties:** Oxidizer UN Test o.1: Test for oxidising solids
- **Other information:** No further relevant information available.

**10 Stability and Reactivity**

- **Reactivity:** No hazardous reaction when handled and stored according to provisions.
- **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:** Keep away from flammable, combustible and reducing substances.
- **Incompatible materials:** Flammable, combustible and reducing substances under specific conditions.
- **Hazardous decomposition products:** Nitrous oxides (NO<sub>x</sub>), potassium nitrite and potassium oxide.

**11 Toxicological Information**

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

· <b>LD/LC50 values that are relevant for classification:</b>
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**7757-79-1 Potassium Nitrate**

Oral	LD50	>2000 mg/kg (Rat.) OECD Guideline 425 (Data obtained by analogy conclusion)
Dermal	LD50	>5000 mg/kg bw (Rat.) Guideline 402
Inhalation	LD50	>0.527 mg/L (4-h) (Rat.) (Maximum achievable concentration)

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

**Skin corrosion/irritation**

Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404)

**Serious eye damage/eye irritation Respiratory or skin sensitisation Germ cell mutagenicity**

No data available

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**Trade name: STUMP REMOVER**· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

· **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)

· **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**

· **UN proper shipping name:**

· **DOT**

· **ADR/ADN**

· **IMDG, IATA**

UN1486

POTASSIUM NITRATE

Oxidizing solid, n.o.s. (Potassium nitrate)

UN1486 Oxidizing solid, n.o.s. (Potassium nitrate)

OXIDIZING SOLID, N.O.S. (POTASSIUM NITRATE)

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**Trade name: STUMP REMOVER**· **Transport hazard class(es):**· **DOT**

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

· **ADR/ADN**

- **Class:** 5.1 (O2) Oxidizing substances
- **Label:** 5.1

· **IMDG, IATA**

- **Class:** 5.1 Oxidizing substances
- **Label:** 5.1
- **Packing group:** III
- **DOT, ADR/ADN, IMDG, IATA**
- **Environmental hazards:**
- **Special marking (ADR/ADN):**
- **Special precautions for user:** Warning: Oxidizing substances
- **Danger code (Kemler):** 50
- **EMS Number:** F-A,S-Q
- **Stowage Category** B
- **Segregation Code** SG38 Stow "separated from" ammonium compounds.  
SG49 Stow "separated from" cyanides  
SG60 Stow "separated from" peroxides  
SG61 Stow "separated from" powdered metals

- **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

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**Trade name: STUMP REMOVER**

- **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 1486 OXIDIZING SOLID, N.O.S. (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

· **TSCA (Toxic Substances Control Act):**

7757-79-1 Potassium Nitrate

· **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

· **New Jersey Special Hazardous Substance List:**

None of the ingredients are listed.

· **Pennsylvania Right-to-Know List:**

7757-79-1 Potassium Nitrate

· **Pennsylvania Special Hazardous Substance List:**

None of the ingredients are listed.

· **Carcinogenic categories:**· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

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· <b>TLV (Threshold Limit Value established by ACGIH):</b>		
· <b>NIOSH-Ca (National Institute for Occupational Safety and Health):</b>		
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 GHS08

· **Signal word:** Danger· **Hazard statements:**

H272 May intensify fire; oxidizer.

H360 May damage fertility or the unborn child.

· **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.

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

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

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

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.

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

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**Trade name: Grow More 20-20-20****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 / 4**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  
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.**SDS created by MSDS Authoring Services    [www.msdsauthoring.com](http://www.msdsauthoring.com)    +1-877-204-9106