

Conforms to Hazard Communication Standard 29 CFR 1910.1200

Section 1 - IDENTIFICATION

Product Identifier: Spectracide® Stump Remover Granules**Other Means of Identification:**

Product Code HG-56420; HG-66420

Formula Number 01-2073

Recommended Use: Stump Remover**Recommended Restrictions:** Use in accordance with label directions**Manufacturer/Importer/Supplier/Distributor Information:**

Company Name Spectrum Group Division of United Industries Corporation

Address PO Box 142642, St. Louis, MO 63114-0642

Telephone Number 1-800-917-5438

Emergency Telephone Number:

CHEMTREC (800)424-9300

Medical (866)823-2749

Section 2 - HAZARD(S) IDENTIFICATION

Classification of Substance or Mixture:

Physical Hazard(s)

Oxidizing Solid - Category 3

Health Hazard(s)

Reproduction Toxicity - Category 1B*

*Some product grades may contain >0.1% Boric Acid (>0.017% B) as an impurity in potassium nitrate. Boric acid is classified as "Toxic to reproduction, cat 1B". See the product Data Sheet to confirm the applicable classification.

Label Elements:

Hazard Pictogram(s)



Signal Word

DANGER

Hazard Statements:

May intensify fire, oxidizer

May damage fertility. May damage the unborn child.

Precautionary Statements:

Keep away from heat. Keep away from flammable, combustible, or reducing materials.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Wear eye protection.

In case of fire: use any suitable means for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water.

If exposed or concerned: Get medical advice/attention.

Dispose of contents and container according to local, state, and federal regulations.

Hazard(s) not Otherwise Classified (HNOC): No additional information available**Supplemental Information:** None

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Synonyms	CAS Number	%
Potassium nitrate	-	7757-79-1	>94

Section 4 - FIRST-AID MEASURES

Description of first aid measures

General information: In case of persisting adverse effects consult a physician

Never give anything by mouth to an unconscious person or a person with cramps.

Inhalation: In case of contact, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention for any breathing difficulty.

Skin Contact: In case of contact, wash with plenty of soap and water. Remove contaminated clothing. If skin irritation occurs: Get medical advice/attention.

Eye Contact: In case of contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: If swallowed, rinse mouth immediately and drink plenty of water.

Most Important The following symptoms may occur:

Symptoms/Effects, ***In case of inhalation*** - Irritation to respiratory tract / Delayed Lung effects after short
Acute and Delayed: 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.

Indication of Treat symptomatically.

Immediate Medical
Attention & Special
Treatment Needed:

Section 5 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use any suitable means for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water. CO2 or Halon® may provide limited control.

Unsuitable Extinguishing Media: Do not use dry chemicals or foams.

Specific Hazards Arising from the Chemical: Oxidizer. Contact with combustible materials will not cause spontaneous ignition, however, potassium nitrate will enhance and existing fire. Thermal decomposition can lead to the escape of toxic/corrosive gases and vapors. Thermal decomposition products: Nitrous oxides (NOx), potassium nitrite and potassium oxide.

Special Protective Equipment and Precautions for Firefighters: Keep upwind of fire. Fire may produce irritating, corrosive and/or toxic gases. Wear full fire fighting turn-out gear (full Bunker gear) and respirator protection (self contained breathing apparatus (SCBA)). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing will only provide limited protection.

In Case of Large Fire:	Flood fire area with water from a distance. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do it without risk.
Potential Hazards:	These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May explode from heat or contamination. Some will react explosively with hydrocarbons (fuels). May ignite combustibles (wood, paper, oil, clothing, etc.). Containers may explode when heated. Runoff may create fire or explosion hazard.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Provide adequate ventilation. Wear personal protective equipment (Section 8). Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Methods and Materials for Containment and Cleaning Up:	Take up mechanically, placing in appropriate containers for disposal or recovery. Do not absorb in saw-dust or other combustible absorbents. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk. Do not get water inside containers. Small Dry Spill: With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area. Small Liquid Spill: Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal. Large Liquid Spill: Dike far ahead of liquid spill for later disposal. Following product recovery, flush area with water.
Environmental Precautions:	Do not allow to enter into surface water or drains. Ensure waste is collected and contained. Report spills as required by local and national regulations.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid generation of dust. Provide adequate ventilation. Wear personal protective equipment. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from flammable, combustible and reducing substances.
Conditions for Safe Storage, Including any Incompatibilities:	Keep or store only in original container. Store in a well-ventilated place. Keep container tightly closed. Do not store together with combustible substances or reducing agents.

Perchlorate containing product - Special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate and Section 15 for more information regarding California State Regulations.

Section 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 manufacturer

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

Individual Protective Measures, Such as Personal Protective Equipment:

Eye/face protection:	Chemical goggles required all the time.
Skin and body protection:	Nitrile rubber gloves, over 0.11mm thickness, >480 min breakthrough time and protective clothes, recommended.
Respiratory protection:	Wear respiratory protection, where airborne concentrations are expected to exceed exposure limits.
General hygiene considerations:	Avoid contact with eyes and skin. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state,	Solid White Granules
Odor:	Odorless
Odor Threshold:	No data available
pH:	8-10 (5% aqueous solution)
Melting / melting range:	335°C / 635°F at 1013 hPa
Initial boiling point and range:	Not applicable
Flashpoint:	Not applicable
Evaporation Rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	Not flammable
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Relative density:	2.1 at 20°C / 68°F

Solubility(ies):	>100g/L at 25°C/77°F (water)
Partition coefficient (n-octanol/water):	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	>600°C / 1112°F
Viscosity:	No data available

Section 10 - STABILITY AND REACTIVITY

Reactivity:	No hazardous reaction when handled and stored according to provis
Chemical stability:	Stable under normal storage and temperature conditions.
Possibility of hazardous reactions:	None identified.
Conditions to avoid:	Keep away from flammable, combustible and reducing substances.
Incompatible materials:	Flammable, combustible and reducing substances under specific conditions.
Hazardous decomposition products:	Thermal decomposition products: Nitrous oxides (NO _x), potassium nitrate and potassium oxide.

Section 11 - TOXICOLOGICAL INFORMATION

The following information mostly refers to the major component of the product and, if it applies, to the impurities which contribute to the classification of the substance.

Information on the likely routes of exposure: Eye contact, skin contact and inhalation. Exposure by ingestion is not expected to occur through normal industrial use.

Symptoms related to the physical, chemical and toxicological characteristics:

Inhalation:	May cause respiratory tract irritation. May cause delayed lung effects after short term exposure to thermal degradation products.
Ingestion:	Ingestion of large amounts may cause gastrointestinal
Skin contact:	May cause redness or irritation.
Eye contact:	May cause redness or irritation.

Information on toxicological effects from short and long term exposure

Acute Toxicity		Species:	Method:
Acute oral toxicity	LD50: >2000 mg/kg bw	Rat	OECD Guideline 425
	Data obtained by analogy conclusion		
Acute dermal toxicity	LD50: >5000 mg/kg bw	Rat	OECD Guideline 402
Acute inhalation toxicity	LD50: >0.527 mg/L (4-h)	Rat	OECD Guideline 403
	(maximum achievable concentration)		
Assessment / classification:	Based on available data, the classification criteria are not met		

Irritation and corrosion effects

Irritation to the skin	Result:	Species:	
Equivalent/similar to OECD guideline 404	non-irritant	Rabbit	Data obtained by analogy conclusion

Primary dermal irritation index (PDII): 0 of max. 5 (mean) (Time point: 1, 24, 48, 72H)

Irritation to eyes	Result:	Species:
OECD Guideline 437	non-irritant	<i>In vitro study</i>
OECD Guideline 405/EU B.5	non-irritant	Rabbit
Assessment / Classification:	Based on available data, the classification criteria are not met	

Respiration or skin sensitization

Skin sensitization	Result:	Species:
OECD Guideline 429/EU B.42	not sensitizing	Mouse Data obtained by analogy conclusion
Respiration sensitization	No information available.	
Assessment / Classification:	Based on available data, the classification criteria are not met	

Germ cell mutagenicity / Genotoxicity

In-vitro genotoxicity	Method:	Result:
Gene-mutations microorganisms	bacterial reverse mutation assay	negative (literature information)
Gene-mutations mammalian cells	OECD Guideline 476/EU B.17	negative
Chromosome aberr. mammalian cells	According to Ishidate & Odashima (1977)	negative (literature information)
Sister Chromatid exchange (SCE)	Equivalent or similar to OECD	negative (literature information)
Assessment / Classification:	Based on available data, the classification criteria are not met	

Reproductive toxicity

Adverse effects on sexual function and fertility/developmental toxicity

OECD guideline 422 NOAEL(C): ≥ 1500 mg/kg/day Rat

At the highest dose tested, no effects on fertility or development were observed in this repeated dose toxicity study.

This product may contain small amounts of Boric Acid that is classified as Presumed human reproductive toxicant, Category 1B: Boric Acid

Adverse effects on fertility

Multigeneration study NOAEL (fertility, male rats): 17 mg B/kg bw/day

Boron has been shown to adversely affect male reproduction in laboratory animals, however male reproductive effects attributable to boron have not been demonstrated in studies of highly exposed workers.

Adverse effects on developmental toxicity

Benchmark dose (BMDL05) 10.3 mg B/kg bw/day

Developmental effects have been observed in laboratory animals. The critical effect is considered to be decreases fetal body weight in rats. There is no evidence of developmental effects in humans attributable to boron in studies of populations with high exposures to boron.

Assessment / Classification: Based on available data for relevant components, this product is classified and labelled as Presumed human reproductive toxicant, Category 1B, in accordance with Appendix A to 29CFR section 1910.1200

Specific target organ toxicity (single exposure)

Practical experience / human evidence

No relevant effect have been observed after single exposure to potassium nitrate.

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

Specific target organ toxicity (repeated exposure)

OECD guideline 422

Effect dose:	Organs affected:
NOAEL(C): 1500 mg/kg bw/day	None
Assessment / Classification:	Based on available data, the classification criteria are not met

Aspiration hazard

Physiochemical data and toxicological information does not indicate an aspiration hazard.

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

Carcinogenicity

International Agency for Research on Cancer (IARC)	Inadequate animals and humans evidence
National Toxicology Program (NTP)	Not listed
29 CFR part 1910, subpart Z	Not listed
California Prop 65	Not listed
WHO (2003) Nitrate in drinking water	No association between nitrate exposure and humans and the risk of cancer

Other Toxicological Information

This product contains trace amounts of naturally-occurring perchlorate and iodate. Like other goitrogenic substances, perchlorate may affect iodine uptake by thyroid under specific conditions.

Section 12 - ECOLOGICAL INFORMATION

The following information mostly refers to the major component of this product.

Ecotoxicity:

Aquatic Toxicity		
96-h LC50 1378 mg/L	<i>Poecilia reticulata</i> (freshwater fish)	(literature information)
48-h EC50 490 mg/L	<i>Daphnia magna</i> (freshwater flea).	(literature information)
10 D EC50 >1700mg/L	Several algae species	(literature information)
Assessment / classification:	Based on available data, the classification criteria are not met	

Persistence and degradability:

In aqueous compartments, the substance will dissociate into potassium and nitrate ions. Other minor compounds are also expected to be dissociated in their corresponding ions. Potassium ions are not subject to further degradation. Under anoxic conditions, nitrate is subjected to denitrification and is ultimately converted into molecular nitrogen as part of the nitrogen cycle. Nitrate and other oxyanions impurities are likely to be found in oxic compartments.

Bioaccumulative potential:

Potassium nitrate has a low potential for bioaccumulation based on physiochemical properties (high water solubility).

Mobility in soil:

Nitrate has a low potential for adsorption. Portion not taken up by plants, can leach to groundwater. Potassium may be absorbed by plants and it can also participate in ion exchange processes.

Other adverse effects:

Excess nitrate leaching may enrich waters leading to eutrophication.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal should be in accordance with applicable federal and state laws.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal method in compliance with applicable regulations.

Potassium nitrate waste exhibiting the characteristic of ignitability has the EPA Hazardous Waste Number of D001 according to the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Perchlorate containing product - Special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate and Section 15 for more information regarding California State regulations.

Section 14 - TRANSPORTATION INFORMATION

DOT:	UN Number:	UN1486
	Proper Shipping Name:	Potassium nitrate
	Hazard Class:	5.1
	Packing Group:	III
	Limited Quantity:	≤5kg
	Marine Pollutant:	No
	Special provisions:	A1; A29; IB8; IP3; T1; TP33; W1

IATA:	UN Number:	UN1486
	Proper Shipping Name:	Potassium nitrate
	Hazard Class:	5.1
	Packing Group:	III
	Limited Quantity:	No
	Marine Pollutant:	No

IMDG:	UN Number:	UN1486
	Proper Shipping Name:	Potassium nitrate
	Hazard Class:	5.1
	Packing Group:	III
	Limited Quantity:	≤5kg
	Marine Pollutant:	No
	Special provisions:	964

Special handling procedure

None

Transportation in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Other Special Precautions

None

Section 15 - REGULATORY INFORMATION

This chemical is subjected to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets by OSHA. Following is the hazard information as required on the product label:

Federal Hazardous Substance Act Label:

KEEP OUT OF REACH OF CHILDREN AND PETS.

CAUTION EYE IRRITANT. OXIDIZER

Contains: Potassium nitrate

HEALTH HAZARDS

CAUTION: MAY IRRITATE EYES. Do not get in eyes.

FIRST AID: If in eyes, rinse with water for 15 minutes. If irritation persists consult a medical professional.

PHYSICAL HAZARDS

CAUTION: May intensify fire; oxidizer

Keep/store away from heat. Keep away from flammable and combustible materials. Do not mix with other chemicals.

EPA TSCA Inventory: Potassium nitrate is listed

SARA Title III Rules:

Section 311/312 Hazard Classes

Acute Health Hazard	NO
Chronic Health	YES
Fire Hazard	YES (Oxidizer)
Release of Pressure	NO
Reactive Hazard	NO

SARA 313: N 511 Nitrate compounds (water dissociable; reportable only when in aqueous solution)

Section 302 Extremely Hazardous Substances (EHS)/CERCLA Hazardous Substances

Potassium nitrate is not listed

DHS - Chemical of Interest (Appendix A to 6CFR Part 27)

Potassium nitrate is listed (ACG)

NFPA 704/2012: National Fire Protection Associate

Health	1
Fire	0
Instability	0
Special	OX

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):

Potassium nitrate is not listed

California Code of Regulations Title 22 (Health & Safety Code), Chapter 33

See <http://www.dtsc.ca.gov/hazardouswaste/perchlorate/>

Disclaimer: Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Section 16 - OTHER INFORMATION

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