

GROENINK'S  
MATERIAL AND DATA SHEET  
GET A GRIP

Date Prepared: 2/13/16

**I. Product Identity**

PRODUCT NAME: 25-0-5 50% Slow Release and 36% Organic by Weight

MFR INFO: Groenink's Elevator and Hardware  
11260 Michigan Ave.  
Nunica, MI 49448

FOR EMERGENCY: (800) 424-9300 (CHEMTREC)

FOR INFORMATION: (616) 837-7391

CURRENT AS OF: 3/12/16

**II. Ingredient List**

Potash

Urea

Duration-45

Bio Solid

**III. Ingredient: Potash**

Product Name	:	<b>Potash</b>
Product Form	:	Mixture
Product Code	:	GRA, SOG, STD, SUS
Other Identification	:	Muriate of Potash: Granular, Standard, and Suspension Grades, WST
Use of substance	:	Fertilizer
Physical state	:	solid
Appearance	:	Granular solid. Fine to 4 mm size.
Color	:	White to red
Odour	:	Slightly oily
Odour threshold	:	No data available
pH	:	7 (approximately)
Melting point	:	771 – 773 °C (1420 – 1423 °F)
Freezing point	:	No data available
Boiling point	:	1420 – 1500 °C (2588 – 2732 °F)

Flash point	:	Not available
Self ignition temperature	:	Not flammable
Decomposition temperature	:	No data available
Flammability	:	Not flammable
Vapour pressure	:	80 Pa at 20°C
Density	:	1.98 g/cc
Solubility	:	Water: 347 g/l (at 20°C)
Explosive limits	:	Not explosive
Explosive properties	:	None known
Oxidizing properties	:	None known
VOC content	:	< 0.5 %
Reactivity	:	Stable at ambient temperature and under normal conditions of use.
Chemical stability	:	Stable at standard temperature and pressure.
Possibility of hazards	:	Hazardous polymerization will not occur.
Conditions to avoid	:	Protect from moisture.
Incompatible materials	:	Contact with acids liberates toxic gas (chlorine). Contact with hot nitric acid may produce toxic nitrosyl chloride.
Hazardous decomposition	:	Contact with strong acids may produce hydrogen chloride gas.

#### Products

#### **Firefighting Measures**

Suitable extinguishing media:	:	Not flammable. Use extinguishing media appropriate for surrounding fire.
Fire hazard	:	Under conditions of fire this material may produce: Potassium oxides; Hydrogen chloride; Chlorine gas.
Explosion hazard	:	Product is not explosive.
Reactivity	:	Stable at ambient temperature and under normal conditions of use.
Firefighting instructions	:	Keep upwind. Under conditions of fire this material may produce: Potassium oxides; Hydrogen chloride; Chlorine gas.
Protection during fire fighting:	:	Wear full fire-fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

Other Information : Do not allow run off from fire fighting to enter drains or water courses.

**GHS-US classification**

Eye Irrit. 2B H320

**GHS-US labelling**

Signal word (GHS-US) : Warning

Hazard statements (GHS-US): H320 – Causes eye irritation

Precautionary statements : P264 – Wash hands thoroughly after handling  
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/attention.

**Toxicological Information**

Acute toxicity : Not classified

<b>Potash</b>	
Additional information	Potassium chloride is listed by the FDA as “Generally Recognizes as Safe” (GRAS and may be used as a food additive according to prescribed conditions.
<b>Potassium Chloride (7447-40-7)</b>	
LD50 oral rat	2600 mg/kg
<b>Sodium Chloride (7647-14-5)</b>	
LD50 oral rat	3 g/kg
LD50 dermal rabbit	> 10 g/kg
LC50 inhalation rat (mg/l)	> g/m <sup>3</sup> (Exposure time: 1 hr)

**Ecological Information**

Ecotoxicity:	
Acute toxicity to fish:	(Lepomis macrochirus) (blue gill) – 96 hour –

	LC <sub>50</sub> = 2010 mg/L (ppm KCl)
Chronic toxicity to fish:	No data available
Acute toxicity to aquatic invertebrates:	(Daphnia magna) – 48 hours – EC <sub>50</sub> – 337 – 825 mg/L; (Physa heterostropha) – 96 hrs – LC <sub>50</sub> = 940 mg/L.
Chronic Toxicity to Aquatic Invertebrates:	No data available
Toxicity to aquatic plants:	((Nitzshia linearis)diatom) – 5 days – 120 hour TIm = 1,337 ppm KCl; (Scendesmus subspicatus) 72 hour - EC <sub>50</sub>
Toxicity to bacteria: (activated)	No data available
Toxicity to soil dwelling organisms:	No data available
Toxicity to terrestrial plants:	No data available

**Enviromental Fate:**

Stability in Water:	Ions can persist, dissociates in water
Stability in Soil:	Binds to clay particles
Transport and Distribution:	1.51 x 10 <sup>-8</sup> % to air; 45.2% to water; 54.7% to soil; 0.0755% to sediment

**Toxicity:**

Not toxic to aquatic organisms defined by USEPA

**Degration Products:**

Biodegradation:	No data available
Photodegradation:	No data available

**US State Regulations**

Potash	SARA Sectin 311/312	Immediate (acute) health hazard
Potassium Chloride (7447-40-7)	Listed on the United States TSCA (Toxic	

	Substances Control Act) inventory
Sodium Chloride (7647-14-5)	Listed on the United States TSCA (Toxic Substances Control Act) inventory

Full text of H- phrases:

Eye Irrit. 2	Serious eye damage/eye irritation (Category 2)
Skin Irrit. 2	Skin corrosion/irritation (Category 2)
STOT SE 3	Specific target organ toxicity (single exposure) (Category 3)
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

#### IV. Ingredient: Urea

Product Name	:	<b>Urea, Dry</b>
Product Code	:	URGRAN
Product Form	:	Mixture
Product Group	:	Commercial product
Synonyms	:	Urea Granular; Urea Microprills; Urea Pastille; Urea Prills
Physical State	:	Solid
Appearance	:	Granules
Colour	:	White
Odour	:	Slight Ammonia
pH	:	7.2 at 100g/l
Molecular weight	:	60.07
Melting Point	:	Decomposes above 132.6 °C (270.7 °F)
Vapour Pressure	:	80 Pa at 20°C
Flammability	:	Non-flammable
Density	:	2.31 g/cm <sup>3</sup>
Bulk Density	:	44-49 lb/ft <sup>3</sup> 750 kg/m <sup>3</sup>
Solubility	:	1,193 g/l at 25°C

Log Pow : -1.59 @ 20°C

#### GHS-US Classification

Skin Irritation 2 H315

Eye Irritation 2A H319

STOT SE 3 H335

#### Hazard Statements (GHS-US)

H315 – Causes skin irritation

H319 – Causes serious eye irritation

H335 – May cause respiratory irritation

#### Precautionary Statements (GHS-US)

P261 – Avoid breathing dust

P264 – Wash hands thoroughly after handling

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

P280 – Wear eye protection, protective gloves, protective clothing

P302+P352 – If on skin: wash with plenty of water

P304+P340 – If inhaled: remove victim to fresh air and keep at rest in a position 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.

P312 – Call a POISON CENTER or doctor/physician if you feel unwell

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

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

P362 – Take off contaminated clothing

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, and international regulations.

Other Hazards : Hazardous to the aquatic environment

Reactivity : Stable at ambient temperature and under normal conditions of use

Chemical Stability : Stable at standard temperature and pressure

Possibility of hazardous : Hazardous polymerization will not occur.

Conditions to avoid : Protect from moisture. May slowly hydrolyze to ammonium carbamate and eventually decompose to ammonia and carbon dioxide

dioxide.

- Incompatible materials : May form explosive mixture if in contact with strong acid such as nitric or perchloric acids. Avoid contact with: strong oxidizers; strong acids or bases; nitrates; hypochlorites. Reacts with sodium or calcium hypochlorite to form explosive nitrogen trichloride.
- Fire Hazard : Decomposes above 132.6°C (270.7°F). Under conditions of fire this material may produce: Ammonia, Nitrogen oxides, and/or Biuret. Short-term exposures to smoke and gases may lead to irreversible lung injury without early signs and symptoms.
- Explosion Hazard : Product is not explosive. May form explosive mixtures if mixed with strong acid (Nitric/Perchloric) and strong oxidizers.
- General Measures : Handle in accordance with good industrial hygiene/safety practice.
- Signal Word : Warning
- Aquatic Environment Hazard: Per OSHA 29 CFR 1910.1200(b)(5)(iii) labelling is not required for URPRLMIF or URPRLCF as labelling is covered under the requirements of the Food and Drug Administration (FDA) of the US Department of Agriculture (USDA).

Name	Product Identifier	% by Weight	GHS-US classification
Urea (Carbamide, Carbonyldiamide, Carbamidic Acid)	(CAS No.) 57-13-6	97.5 – 99.7	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Alkalinity, as Ammonia		150 ppm (max)	
Methylenediurea	(CAS No.) 13547-17-6	0 – 2.5	Eye Irrit. 2A, H319
Biuret	(CAS No.) 108-19-0	0 – 1.5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

Control Parameters:

Urea (57-13-6)		
USA ACGIH (nuisance dust)	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> – inhalation particulate
USA OSHA (nuisance dust)	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> – Respirable (particulate) Fraction: Urea

**Toxicological Information**

Acute Toxicity : Not classified

LD50 Oral Rat	8471 mg/kg
LD50 Oral Rat	14,300 mg/kg-male; 15,000 mg/kg-female

LD50 Oral Mouse	11,500 mg/kg-male; 13,000 mg/kg-female
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- Skin corrosion/irritation : Causes skin irritation
- Serious eye damage/irritation: Causes eye irritation
- Respiratory or skin : Not classified
- sensitisation
- Germ cell mutagenicity : Bacterial Genetic Toxicity Invitro:  
Gene Mutation:  
Salmonella typhimurium – Bacterial reverse mutation assay:  
Negative Chinese Hamster - Chromosomal aberration test:  
Positive (very high dose); Mouse: Positive (very high dose). Non-Bacterial Genetic Toxicity In-Vitro: Chromosomal Aberration:  
Mouse – Bone Marrow Cytogenetic test: Positive (extremely high dose).
- Carcinogenicity : Not listed in IARC Monographs, by NTP or OSHA
- Reproductive Toxicity : Toxicity to Reproductive:  
No toxic affects on mouse gonads up to 6,750 mg/kg/day.  
No toxic affects on rat gonads up to 2,250 mg/kg/day.  
Developmental toxicity/ Teratogenicity: Not teratogenic.
- Specific target organ : May cause respiratory irritation.
- toxicity (single exposure)
- Specific target organ : Not Classified
- toxicity (repeated exposure)
- Aspiration hazard : Not Classified

**Ecological Informations**

Ecotoxicity	Acute Toxicity to Fish:	96 -h: (Barillius barna)
	Chronic Toxicity to Fish:	LC <sub>50</sub> =>9,000mg/L
	Acute Toxicity to Aquatic Invertebrates:	No data available (Daphnia magna): 24-h EC <sub>50</sub> : > 10,000 mg/L
	Toxicity to Aquatic Plants:	
	Toxicity to Bacteria:	(Scenadesmus quadricauda) 192-hr cell multiplication



	<p>Toxicity to Soil Dwelling Organisms:</p> <p>Toxicity to Other Non Mammalian Terrestrial Species:</p> <p>Toxicity to Terrestrial Plants:</p> <p>Stability in Water:</p>	<p>inhibition test-TT&gt;10,000 mg/L</p> <p>No data available</p> <p>Applications of nitrogenous fertilizers to grassland for long periods of time may have deleterious effects on earthworms in the absence of liminig.</p> <p>(Pigeon) – Subcutaneous – LDLO = 16,000 mg/kg. Since Urea is a fertilizer, it may promote eutrophication in waterways. Non-toxic to aquatic organisms as defined by USEPA.</p> <p>7 days exposure to 0mg urea / leaf-tip necrosis</p> <p>T<sup>1/2</sup> &gt; 1 year</p>
Environmental Fate:	Stability in Soil:	No data available
Toxicity:	<p>Transport and Distribution:</p> <p>Non-toxic to aquatic organisms as defined by USEPA. No know toxicity.</p>	.16% in air; 99.84% in water (calculated (Fugacity Level 1))
Degradation Products:	<p>Biodegradation:</p> <p>Photodegradation:</p>	<p>Ultimety biodegradable (OECDTG 302B) 93-98% (SCAS 24 hr)</p> <p>No data available.</p>

## Environmental Precautions

If spill could potentially enter any waterway, including intermittent dry creeks, contact the U.S. Coast Guard National Response Center at 800-424-8802. In case of accident or road spill notify CHEMTREC at 800-424-9300.

### Containment and Cleaning Up

If contaminated with other materials, contain and collect as any solid in suitable containers. Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.

Prevent large quantities from contacting vegetation.

Recover the product by vacuuming, shoveling, or sweeping and place in appropriate container to be disposed at an appropriate disposal facility according to current applicable laws and regulations and product characteristics at the time of disposal. Provide adequate ventilation. Avoid generation of dust during clean-up of spills. If uncontaminated, recover, reuse product.

Practice food housekeeping – spillage can be slippert on smooth surface either wet or dry.

### Transport Information

UN number : No dangerous good in sense of transport regulations.

UN proper shipping name : Not applicable

Additional Information : No supplementary information available.

Overland transport : No additional information.

Transport by sea : No additional information.

Air transport : No additional information available.

### Regulatory Information

#### US Federal Regulations

Urea, Dry	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

Urea (57-13-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Biuret (108-19-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### US State Regulations

The following states have an OSH program approved by OSHA. If you are located in any of these states you may be under state jurisdiction rather than federal jurisdiction and your state may have more stringent requirements than OSHA. You should consult your state regulations to ensure compliance.

Alaska	Indiana	Minnesota	North Carolina	Utah
Arizona	Iowa	Nevada	Oregon	Vermont
California	Kentucky	New Mexico	Puerto Rico	*Virgin Islands
*Connecticut	Maryland	*New Jersey	South Carolina	Virginia
Hawaii	Michigan	*New York	Tennessee	Washington
*Illinois				Wyoming

\*The state plans in these states apply only to public sector employers. In these states private sector employers are subject to USOL – OSHA jurisdiction. All other state plans apply to both public and private sector employers.

Urea (57-13-6)
US – Minnesota – Hazardous Substance List
US – Texas – Effects Screening Levels – Long term/Short term

**Other Information**

NFPA health hazard : 2 – Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 0 – Materials that will not burn.

NFPA reactivity : 0 – Normally stable, even under fire exposure conditions, and are not reactive with water.

Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation

**V. Ingredient: Duration-45**

Product Name : **Duration CR ® urea**

Product Code	:	KAS_DURATION_US_EN
Physical State	:	Solid
Form	:	Granular solid
Color	:	Light brown to tan
Odor	:	Slightly ammoniacal
Chemical Family	:	Modified Urea Polymer
Reactivity	:	The product is non-reactive under normal conditions of use, storage, and transport
Chemical Stability	:	Stable under normal temperature conditions
Possibility of Hazardous Reactions	:	Hazardous reactions do not occur
Conditions to Avoid	:	Heat. Extreme temperatures.
Incompatible Materials	:	Strong oxidizing agents. Acids. Alkalis.
Hazardous Decomposition Products	:	Ammonia. Carbon Oxides. Nitrogen oxides (Nox)
Reactivity	:	Reacts violently with strong oxidants, nitrates, inorganic chlorides, chlorites, and perchlorates causing fire and explosion hazard.
Chemical Stability	:	Normally stable. May gradually give off ammonia. The product is hygroscopic and will absorb water by contact with the moisture in the air.
Possibility of hazard reactions:	:	Hazardous polymerization does not occur.
Conditions to avoid	:	Moisture; High temperatures; Contact with incompatible materials.
Incompatible materials	:	Strong oxidizing agents; Nitric acid; Nitrites
Hazard decomposition products:	:	Carbon oxides; Nitrogen oxides (Nox); Ammonia; Biuret
<b>Toxicological Information:</b>		
Inhalation	:	high concentrations of dust may irritate throat and respiratory system and cause coughing
Skin contact	:	dust may irritate skin
Eye contact	:	dust may irritate eyes
Ingestion	:	may cause discomfort if swallowed
Symptoms	:	irritation, redness, scratching of the cornea, and tearing
Acute toxicity	:	may cause discomfort if swallowed

Components	Species	Test Results
Urea (CAS # 57-13-6) Acute; oral; LD50	Rat	14300mg/kg

Skin corrosion/irritation : may cause irritation through mechanical abrasion

Serious eye damage : may cause irritation through mechanical abrasion

Respiratory/skin sensitization:

Respiratory sensitization : based on available data, the classification criteria are not met.

Skin sensitization : not a skin sensitizer

Germ cell mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Reproductive toxicity : Based on available data, the classification criteria is not met.

Specific target organ toxicity : Based on available data, the classification criteria is not met.

Aspiration hazard : Not an aspiration hazard

Chronic effects : Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Further info : No other specific acute or chronic health impact noted.

#### Ecological Information:

Components	Species	Test Results
Urea (CAS # 57-13-6) Aquatic Fish; LC50	Leuciscus idus	>6810 mg/l, 96 hours

Persistence and degradability: No data available

Bioaccumulative : No data available

Partition coefficient n-octanol/water (log Kow)

Urea (CAS # 57-13-6)

Mobility in soil : This product is water soluble and may disperse in soil.

#### VI. Ingredient: Bio Solid

Product Name : **Nutri-Pel Fertilizer**

Form : Solid pellets

Color : Dark

Odor	:	Earthy
Odor threshold	:	Not determined
pH-value @ 20°C	:	6.7
Melting point/Melting range	:	Not determined
Boiling point/Boiling range	:	Not determined
Flash point	:	Not applicable
Flammability	:	Not determined
Decomposition temperature	:	Not determined
Auto igniting	:	Product is not self igniting
Danger of explosion	:	Product does not present an explosion hazard
Vapor pressure	:	Not determined
Relative density	:	Not determined
Vapor density	:	Not applicable
Evaporation rate	:	Not applicable
Solubility in water	:	Slightly soluble
Partition coefficient	:	Not determined
Other information	:	Bulk density: 55lbs/ft <sup>3</sup>
Reactivity	:	No further relevant information available
Chemical stability	:	Stable under normal conditions
Thermal decomposition	:	No decomposition is used according to specifications
Possibility of reactions	:	No dangerous reactions known
Conditions to avoid	:	Excessive heat; absorbs moisture in highly humid areas
Incompatible materials	:	No further relevant information available
Hazardous decomposition	:	Expected to emit the same types of toxic smoke as would be released during combustion of other organic materials.

**Hazard Identification:**

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335 May cause respiratory irritation.

Eye Irrit. 2B H320 Causes eye irritation.

GHS label elements: This product is classified and labeled according to the Globally Harmonized System (GHS)

Signal Word: Warning

Hazard-determining components of labeling: Activated Sewage Sludge (biosolids, dried microbes)

Hazard Statements: Causes skin and eye irritation; may cause respiratory irritation

Precautionary Statements: Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, and face protection. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control doctor if you feel unwell. If skin irritation occurs, get medical advice. If eye irritation persists, seek medical attention. If on skin, wash with plenty of water. Take off your contaminated clothing and wash it before reuse. Store in a well ventilated place with the container tightly closed. Dispose of contents in accordance with your local/regional/national regulations. **For specific treatments refer to the first aid instructions on this safety data sheet.**

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

**State Right to Know: 308066-19-5**

Activated Sewage Sludge (biosolids, dried microbes)

Skin Irrit. 2, H315; STOT SE 3, H335, Eye Irrit. 2B, H320; Aquatic Acute 2, H401  
water, distilled, conductivity or of similar purity

Cationic Polyelectrolyte Polymer

**Toxicological Information**

As a recycled product from a municipal water reclamation facility, biosolids have the potential to contain various pollutants. The US Environmental Protection Agency has extensively analyzed the risk from these pollutants and concluded that metals present significant risks at the levels likely to be found in Biosolids. In response, the US Environmental Protection Agency has established limits for nine metals (40 CFR 503.13(b)). Metal concentrations in Nutri-Pel are consistently far below the applicable limits (40 CFR 503.13(b)(1)Table 3).

In biosolids, pathogens may present a risk. In response, the US Environmental Protection Agency has established pathogen limits. To destroy pathogens, Nutri-Pel is heated to 176°F and dried to a moisture content of less than 10%, which ensures compliance with the applicable limits (40 CFR 503.32(a)(7)).

Primary irritant effect: (skin: irritant to skin and mucous membranes) (eye: irritating effect)

Carcinogen categories:

IARC (International Agency for Research on Cancer): None of the ingredients listed.

NTP (National Toxicology Program): None of the ingredients listed.

OSHA-Ca (Occupational Safety and Health Administration): None of the ingredients listed.

### **Ecological Information**

Aquatic toxicity: No further relevant information available

Persistence and degradability: No further relevant information available

Bioaccumulative potential: No further relevant information available

Mobility in soil: No further relevant information available

General Notes: Do not allow product 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

### **Transport Information**

UN-Number:

DOT, ADR, ADN, IMDG, IATA      Non-regulated Material

UN proper shipping name:

DOT, ADR, ADN, IMDG, IATA      Non-regulated Material

Transport hazard classes:

DOT, ADR, ADN, IMDG, IATA

Class: Non-regulated Material

Packing group:

DOT, ADR, IMDG, IATA      Non-regulated Material

Environmental hazards: Not applicable

Special precautions for user: Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

UN "Model Regulation": Non-regulated Material

### **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): None of the ingredients are listed.

TSCA (Toxic Substances Control Act): water, distilled, conductivity or of similar purity.

California Proposition 65

Chemicals known to cause cancer: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity to females: None of the ingredients are listed.

Chemicals known to cause reproductive toxicity to males: None of the ingredients are listed.



Chemicals known to cause developmental toxicity: None of the ingredients are listed.

Carcinogenic categories:

EPA (Environmental Protection Agency): None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH): None of the ingredients are listed.

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)

## **VII. Other Hazard Information**

### **Environmental Protection:**

**Appropriate engineering controls:** Use ventilation and dust collection to control exposure to below applicable limits.

**Recommendations for personal protective measures:** Respirable dust and quartz levels should be monitored regularly to determine worker exposure levels. Exposure levels in excess of allowable exposure limits should be reduced by all feasible engineering controls including (but not limited to) wet suppression, ventilation, process enclosure, and enclosed employee workstations.

Any special requirements for PPE:

Eye protection: Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively (visibly) dusty conditions are present or anticipated.

Skin protection: Use gloves to provide hand protection from abrasion. In dusty conditions wear long sleeve shirt. Wash work clothes after each use.

Respiratory Protection: All respirators must be NIOSH-approved for the exposure levels present. (See NIOSH Respirator Selection Guide). The need for respiratory protection should be evaluated by a qualified safety and health professional. Activities that generate dust require the use of an appropriate dust respirator where dust levels exceed or are likely to exceed allowable exposure limits. For respirable silica levels that exceed or are likely to exceed an 8 hr Time Weighted Average (TWA) of 0.5 mg/m<sup>3</sup>, a high efficiency particulate filter respirator must be worn at a minimum; however, if respirable silica levels exceed or are likely to exceed an 8 hr TWA of 5.0 mg/m<sup>3</sup> a positive pressure, full face respirator or equivalent is required. Respirator use must comply with applicable MSHA (42 CFR 84) or OSHA (29 CFR 1910.134) standards, which include provisions for a user training program, respirator inspection, repair and cleaning, respirator fit testing, medical surveillance and other requirements.

### **Disposal Information:**

Disposal instructions: Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

Hazardous waste code: Not regulated

Waste from residues: Disposal recommendations are based on the material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**Transport Information:**

DOT – not regulated as dangerous goods.

IATA – not regulated as dangerous goods.

IMDG – not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** – not applicable. However, the product is covered under Appendix I of the IMSBC Code.

**Regulatory Information:**

US federal regulations: This product is not known to be a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are listed on or exempt from the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) – not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) – not listed

CERCLA Hazardous Substance List (40 CFR 302.4) – not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate hazard – no

Delayed hazard – no

Fire hazard – no

Pressure hazard – no

Reactivity hazard – no

SARA 302 Extremely hazardous substance – not listed

SARA 311/312 Hazardous chemical – no

SARA 313 (TRI reporting) – not regulated

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List – not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) – not regulated

Safe Drinking Water Act – not regulated

Food and Drug – total food additive

Administration (FDA) – direct food additive; GRAS food additive

**Other Information:**

Further information: HMIS is registered trade and service mark of the NPCA. A HMIS Health rating including an \* indicates a chronic hazard.

HMIS ratings: Health: 1

Flammability: 0

Physical Hazard: 0

Abbreviations: LC50: Lethal Concentration, 50%; LD50: Lethal Dose, 50%

### **VIII. Conditions of Sale and Warranty**

The directions of use for this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Groenink's Elevator and Hardware, Inc. or the Seller. All such risks shall be assumed by the Buyer. Groenink's Elevator and Hardware, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in its Direction for Use subject to the inherent risks referred to above. **Groenink's Elevator and Hardware, Inc USA makes no other express or implied Warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Groenink's Elevator and Hardware, Inc. or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this Product.** Groenink's Elevator and Hardware, Inc. and the Seller offer this product, and the Buyer and user except it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing