

SAFETY DATA SHEETS

This SDS packet was issued with item:

078345256

N/A

MATERIAL SAFETY DATA SHEET

Section I – Product Information			
Product Name or Identity:	RENAKARE POWDER (Potassium Gluconate)		Emerg. Phone No.: 800 424 9300
Manufacturer's Name:	Neogen Corporation	Int'l Emergency Phone No.:	703 527 3887
	944 Nandino Blvd	<i>Collect Calls Accepted</i>	
	Lexington, KY 40511	Phone No.:	<u>859 254 1221</u>
Date Prepared or Revised:	05/17/2010	Fax No.:	859 255 5532

Section II – Hazardous Ingredients / Identity Information			
Hazardous Components (Specific Chemical Identity: Common Names)	OSHA PEL (Permissible Exposure Limits)	ACGIH TLV (Threshold Limit Value)	Toxicity Data LD ₅₀
This is a non-hazardous product: Active ingredient:			
Potassium Gluconate 468 mg/1/4 tsp. CAS 299-27-4	N/A	N/A	N/A

Section III – Physical Characteristics	
Boiling Point: N/A	Specific Gravity (H ₂ O = 1): N/A
Vapor Pressure (mm Hg.): N/A	Melting Point: N/A
Vapor Density (AIR = 1): N/A	Evaporation Rate (Butyl Acetate = 1): N/A
Solubility in Water: Soluble	
Appearance and Odor: Light brown powder, beef odor and flavor	

Section IV – Fire and Explosion Hazard Data	
Flash Point (<i>Method Used</i>): N/A	Flammable Limits: LEL (Lower Explosive Limit) - N/A UEL (Upper Explosive Limit) - N/A
Extinguishing Media: Water spray, CO ₂ , dry chemical powder, foam.	
Special Fire Fighting Procedures: Wear full faceplate and NIOSH-approved self-contained breathing apparatus.	
Unusual Fire and Explosion Hazards: Avoid breathing dust or combustion fumes.	

Section V – Reactivity Data			
Stability	Unstable		Conditions to Avoid: None known
	Stable	X	
Incompatibility (<i>Materials to Avoid</i>): None known			
Hazardous Decomposition or Byproducts: Carbon monoxide, carbon dioxide			
Hazardous Polymerization	May Occur		Conditions to Avoid: None known
	Will Not Occur	X	

Section VI – Health Hazard Data			
Route(s) of Entry:	Inhalation-Avoid dust	Skin-Not likely source of entry.	Ingestion-Not likely to pose a health hazard.
Health Hazards (Acute and Chronic)	Not considered hazardous.		
Carcinogenicity: NTP-Not listed (National Toxicology Program)	IARC Monographs-Not listed (International Agency for Research in Cancer)	OSHA Regulated-Yes, as dust source.	
Signs and Symptoms of Exposure: Prolonged exposure may cause eye, skin or respiratory irritation.			
Medical Conditions Generally Aggravated by Exposure: Considered non-hazardous and non-toxic.			
Emergency / First Aid Procedures	Ingestion: Give two glasses of water or milk. Do not induce vomiting. Get medical attention if victim feels unwell.		
	Inhalation: Remove to fresh air, seek medical attention if irritation develops or persists.		
	Eye Contact: Wash with copious amounts of water, holding eyelids open. Remove contact lenses.		
	Skin Contact: Wash with soap and water.		

Section VII – Precautions for Safe Handling and Use
Accidental Release Measures: Sweep or mop up spilled material and dispose of in suitable container.
Waste Disposal Method: Disposal in dry landfill is acceptable, ensure compliance with local, state and Federal regulations.
Handling and Storing: Read and follow all label directions.
Other Precautions: For veterinary use only.

Section VIII – Control Measures		
Respiratory Protection (Specify Type): Dust mask		
Ventilation	Local Exhaust: General dilution or local exhaust.	Special:
	Mechanical (General):	Other:
Protective Gloves: Rubber gloves		Eye Protection: Safety goggles or glasses.
Other Protective Clothing or Equipment: Eyewash		
Work / Hygienic Practices: Normal work and hygienic practices.		

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.

SECTION 1: Identification of the substance/mixture and of the company

1.1 Product identifier

- Product Name: **RenaKare™ (Potassium Gluconate Powder)**
- Product Part Number(s): **09075**
- Brands: NeogenVet®

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/preparation: For use as a potassium supplement in hypokalemic cats and dogs.
CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian.
- Uses advised against: Use only as directed. See label cautions.

1.3 Details of the supplier of the safety data sheet

- Name of Manufacturer: Neogen Corporation
- Address of Manufacturer: 944 Nandino Blvd.
Lexington, Kentucky 40511
USA
- Telephone: 859/254-1221 • 800/525-2022
- Email: Inform@neogen.com

1.4 Emergency telephone number

- Emergency Telephone: Chemtrec: 1 (800) 424-9300
Outside USA and Canada: +1 (703) 527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (29 CFR 1910.1200)

- Sensitization-respiratory, Cat. 1, Specific target organ toxicity (single exposure), Cat. 3

Classification (WHMIS 2015 HPR)

- Sensitization-respiratory, Cat. 1, Specific target organ toxicity (single exposure), Cat. 3

Additional information: For full text of Hazard statements: see Section 16

2.2 Label elements



GHS07



GHS08

- Signal Word: Danger
- Symbols: GHSS07, GHS08
- Hazard phrases
 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 - May cause respiratory irritation.
- Precautionary Phrases
 - In case inadequate ventilation, wear respiratory protection.
 - Avoid breathing dust.
 - Use only outdoors or in a well-ventilated area.
 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
 - If experiencing respiratory symptoms: Call a poison center or doctor.
 - Store locked up in a well-ventilated place. Keep container tightly closed.
 - Dispose of contents/container in accordance with local, regional, national, or international regulations.

2.3 Other hazards

- May be mildly irritating to skin and eyes.
- Keep out of reach of children.

SECTION 3: Composition/information on ingredients

3.1 Substances

3.2 Mixtures

This product is a mixture of the substances listed below with the addition of non-hazardous materials

Chemical	Concentration	CAS No.	H-Statements	Symbols
Potassium gluconate	2 mEq (468 mg) per ¼ tsp (0.65g)	299-27-4	None	None
Pepsin	5-10%	9001-75-6	H315, H319, H334, H335	GHS07, GHS08

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

SECTION 4 First aid measures

4.1 Description of first aid measures

- General
In case of doubt, or when symptoms persist, seek medical attention.
If used as directed, this product is not hazardous to humans or animals, but like any other chemical, it should be treated with care, respect, and common sense.
- Contact with skin
Remove contaminated clothing.
Wash affected area with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Contaminated clothing should be laundered before reuse.
- Contact with eyes
If substance has gotten into eyes, rinse with plenty of water for at least 15 minutes.
Irrigate eyes thoroughly while lifting eyelids.
Seek medical advice if necessary.
- Ingestion
Rinse mouth with water (do not swallow).
Never make an unconscious person vomit or drink fluids.
If medical advice is needed, have product container or label at hand.
- Inhalation
If breathing is difficult, remove victim to fresh air and keep comfortable for breathing.
Call a poison center or doctor/physician if you develop respiratory symptoms or if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

- The most important known symptoms are described in the labeling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

- In case of fire: use water spray, foam, carbon dioxide or dry agent for extinction.

5.2 Special hazards arising from the substance or mixture

- Smoke from fires is toxic. Take precautions to protect personnel from exposure.
- See Section 10.

5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water.
- Wear chemical protection suit and positive-pressure breathing apparatus, if necessary.
- Wear protective clothing as per Section 8.

5.4 Hazardous Combustion Products

- May include carbon oxides.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Shut off all ignition sources.
- Use non-sparking hand tools.
- Avoid raising dust.
- Wear protective clothing as per Section 8.
- Wash thoroughly after dealing with spillage.

6.2 Environmental Precautions

- Do not allow to enter public sewers and watercourses.
- Avoid releasing to the environment.

6.3 Methods and material for containment and cleaning up

- Sweep up and shovel.
- Place in sealable container.
- Seal containers and label them.
- Seek expert advice for removal and disposal of all contaminated materials and wastes.

6.4 Reference to other sections

- See Section 7 for storage. For disposal, see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Do not breathe dust.
- Avoid contact with skin and eyes.
- Do not eat, drink, or smoke when using this product.
- Wash hands thoroughly after using this substance.

7.2 Conditions for safe storage, including any incompatibilities

- Store in a dry place.
- Keep lid tightly closed when not in use.
- Keep out of reach of children.

7.3 Specific end use(s)

- Indications from label.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Component	CAS No.	Value	Control Parameters	Basis
Cellulose	9004-34-6	TWA	15 mg/m ³	USA-OSHA Table Z-1 Limits for Air Contaminants - 1910.1000
		TWA	10 mg/m ³	USA-NIOSH Recommended Exposure Limits
		TWA	10 mg/m ³	USA-ACGIH Threshold Limit Values (TLV)
Silica, precipitated	112926-00-8	TWA	6 mg/m ³	USA-OSHA Table Z-1 Limits for Air Contaminants - 1910.1000
		TWA	20 million particles per ft ³	USA-OSHA Occupational Exposure Limits Table Z-3 Mineral Dusts
		TWA	6 mg/m ³	USA-NIOSH Recommended Exposure Limits

8.2 Exposure controls

- Engineering controls should be provided to prevent the need for ventilation.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear an approved NIOSH N95 dust mask.
- Wear protective gloves according to the concentration and amount of dangerous substance at the specific workplace.
- Wear safety glasses approved to standard for ANSI Z87, according to the concentration and amount of dangerous substance at the specific workplace.
- Wear suitable protective clothing in accordance with good industrial hygiene and safety practices in the event of prolonged exposure to bulk quantities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Brown, granular powder
- Odor: Earthy odor
- pH: Not applicable
- Melting Point/Range: Not determined
- Boiling Point/Range: Not applicable
- Flashpoint: No information available
- Evaporation Rate: Not applicable
- Flammability: No information available
- Vapor Pressure: No information available
- Vapor Density: No information available
- Specific Gravity: No information available
- Solubility in water: No information available
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: Product is not self-igniting
- Viscosity: Product is solid
- Explosive Properties: Product does not present an explosion hazard
- Oxidizing Properties: Product is not classified as an oxidizer

9.2 Other information

- No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

- No information available

10.2 Chemical stability

- Considered stable under normal conditions.

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

- Avoid contact with moisture.

10.5 Incompatible materials

- None known

10.6 Hazardous Decomposition Products

- None known

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- No experimental test data available for mixture
- ATE_{mix} = 6211 mg/kg
- Contact with skin
May cause redness and irritation in sensitive individuals.
- Contact with eyes
May cause redness and irritation in sensitive individuals.
- Ingestion
Product is not toxic, but may cause irritation of the throat and/or nausea in sensitive individuals.
- Inhalation
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
- Carcinogenicity
Precipitated silica is listed as reasonably anticipated to be a human carcinogen in the National Toxicology Program (NTP) 13th Report on Carcinogens.
Not found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs, Volumes 1-112.
Not listed in OSHA standard 1910.1003 Carcinogens.

SECTION 11: Toxicological information (continued)

- Mutagenicity
No evidence of mutagenic effects.
 - Teratogenicity
No evidence of teratogenic effects.
-

SECTION 12: Ecological information

12.1 Toxicity

- This product is not classified as hazardous to the environment under U.S. regulations.

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulation Potential

- No information available

12.4 Mobility in soil

- No information available

12.5 Other Adverse Effects

- To the best of our knowledge, the properties of this material have not been fully evaluated.
 - On available data, substance is not harmful to the environment.
-

SECTION 13: Disposal considerations

Waste treatment methods

- Disposal should be in accordance with local, state, national, or international regulations.
 - Do not discharge into drains or the environment, dispose to an approved waste disposal facility.
 - Do not reuse empty containers.
-

SECTION 14: Transport information

14.1 UN Number

- Not classified as hazardous for transport

14.2 UN Proper Shipping Name

- Not applicable

14.3 Transport hazard class(es)

- Not applicable

14.4 Packing group

- Not applicable

14.5 Environmental hazards

- Not Classified

14.6 Special precautions for user

- Not Classified

14.7 Domestic Surface Transport (US DOT)

- Proper Shipping Name: Not applicable
- DOT UN No.: Not applicable
- DOT Hazard Class: Not applicable
- DOT Packing Group: Not applicable

14.8 International Road/Rail (ADR/RID)

- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

14.9 Ocean/Sea (IMO/IMDG)

- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Packing Group: Not applicable

SECTION 14: Transport information (continued)

14.10 Air (ICAO/IATA)

- Proper Shipping Name: Not applicable
- ICAO UN No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- The labeling requirements of the Federal Food, Drug, and Cosmetic Act differ from the classification criteria and hazard information required for safety data sheets and for workplace labels under the OSHA Hazard Communication Standard 29 CFR 1910.1200. Following is the hazard information as required on the drug label:

KEEP OUT OF REACH OF CHILDREN

For veterinary use only.

CAUTION: Federal law restricts this drug to use by or on the order of a licensed veterinarian.

- NDC: 59051-9075-1

15.2 United States Regulatory Information

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

California Prop 65

This product does not contain substances known to the State of California to cause cancer, birth defects, or other reproductive harm.

15.2 United States Regulatory Information (continued)

State Right-to-Know

Massachusetts

Cellulose, CAS No. 9004-34-6

Silica, precipitated, CAS No. 112926-00-8

New Jersey

Cellulose, CAS No. 9004-34-6

Silica, precipitated, CAS No. 112926-00-8

Pennsylvania

Cellulose, CAS No. 9004-34-6

Toxic Substance Control Act (TSCA)

All components of this material are either listed or exempt from listing on the TSCA Inventory.

15.3 Canadian Regulatory Information

- This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR). The labelling may differ subject to the requirements of the Food and Drugs Act (FDA).
- WHMIS Classification: Exempt
- Inventory Status

Domestic Substances List (DSL)	Listed
Non-Domestic Substances List (NDSL)	Not listed

SECTION 16: Other information

Document Number: SDS-0014, RenaKare (Powder)

Date of Preparation: March 10, 2016

Revision: Rev. 1

Replaces: November 6, 2015

Text not given with phrase codes where they are used elsewhere in this safety data sheet: H315: Causes skin irritation. H319: Causes serious eye irritation. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335: May cause respiratory irritation.

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Neogen Corporation shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.