

Safety Data Sheet Version 3.10 Revised: 2016-05-02

1. PRODUCT AND COMPANY IDENTIFICATION

<u>Product Identifier</u> Product Name	Potassium Nitrate
<u>Other means of identification</u> Product Code(s) UN/ID no. Synonyms	A3643 1486 No information available
Product Use	For Laboratory Research Use Only.
Supplier/Manufacturer Biomatik Corporation 9-140 McGovern Dr. Cambridge, Ontario N3H 4R7 Canada	
Telephone Number E-mail Address	1-519-489-7195 info@biomatik.com
Emergency Telephone Number	Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Oxidizing solids	Category 3

Label elements

Emergency Overview

Warning

Hazard statements

May cause respiratory irritation. May cause drowsiness or dizziness

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H272 - May intensify fire; oxidizer



Appearance White

Physical State Solid

Odor No information available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep/Store away from clothing/ combustible materials Take any precaution to avoid mixing with combustibles - .?

Precautionary Statements - Response

Specific treatment (see .? on this label) IF IN EYES: 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 IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not regulated <u>Other Information</u> • May be harmful if swallowed Unknown Acute Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Potassium nitrate	7757-79-1	231-818-8	95-100	Not applicable

4. FIRST AID MEASURES

First Aid Measures	
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. If not breathing, give artificial respiration.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth.
Most important symptoms and effect	cts, both acute and delayed
Most Important Symptoms/Effects	No information available.

Indication of any immediate medica	l attention and special treatment needed		
Notes to Physician	Treat symptomatically.		
	5. FIRE-FIGHTING MEASURES		
Suitable Extinguishing Media Water spray.			
Unsuitable Extinguishing Media	No information available.		
Specific Hazards Arising from the C No information available.	hemical		
Hazardous Combustion Products	Nitrogen oxides (NOx).		
<u>Explosion Data</u> Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t None. None.		
Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.	ons for Firefighters athing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full		
	6. ACCIDENTAL RELEASE MEASURES		
Personal precautions, protective eq	uipment and emergency procedures		
Personal protection	Ensure adequate ventilation, especially in confined areas.		
Environmental Precautions			
Environmental Precautions	See Section 12 for additional Ecological information.		
Methods and material for containme	ent and cleaning up		
Methods for Containment	Prevent further leakage or spillage if safe to do so.		
Methods for Cleaning Up	Cover with dry lime or soda ash. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.		
	7. HANDLING AND STORAGE		
Precautions for Safe Handling			
Handling	Handle in accordance with good industrial hygiene and safety practice. Protect from moisture.		
Conditions for safe storage, including	ng any incompatibilities		
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture.		
Incompatible Products	Strong reducing agents. Finely powdered metals. Strong acids. Organic materials.		
8. EX	POSURE CONTROLS/PERSONAL PROTECTION		
Control parameters			
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits		

No information available

No information available

	established by the region	specific regulatory bodies.		
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
Potassium nitrate	-	-	-	
Appropriate engineering control	<u>s</u>	·		
Engineering Measures	Showers Eyewash stations Ventilation systems.			
Individual protection measures,	such as personal protective	equipment		
Eye/Face Protection	Safety glasses with side-	Safety glasses with side-shields.		
Skin and Body Protection	Wear protective gloves/c	lothing.		
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.			
Hygiene Measures	Handle in accordance wi	th good industrial hygiene and safe	ety practice.	
	9. PHYSICAL AND CH	IEMICAL PROPERTIES		

Information on basic physical and chemical properties

Physical State Appearance Color	Solid White No information available	Odor Odor Threshold	
Property	Values	Remarks • Method	
рН	No information available		
Melting point/freezing point			
Boiling Point/Range	No information available		
Flash Point (High in °C)	No information available		
Evaporation Rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	No information available		
Lower flammability limit:	No information available		
Vapor pressure	No information available		
Vapor Density	No information available		
Specific Gravity	2.109		
Water Solubility	No information available		
Solubility in other solvents	No information available		
Partition coefficient	No information available		
Autoignition Temperature	No information available		
Decomposition Temperature	No information available		
Kinematic viscosity	No information available		
Dynamic viscosity	No information available		
Explosive Properties	No information available		
Oxidizing Properties	No information available		
Other Information			
Softening Point	No information available		
Molecular Weight	No information available		
VOC Content	No information available		
Density	No information available		
Bulk Density	No information available		
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10. STABILITY AND REACTIVITY

Reactivity No data available

Chemical Stability Stable under recommended storage conditions. Possibility of Hazardous Reactions None under normal processing. Conditions to Avoid Protect from moisture. Incompatible Materials Strong reducing agents. Finely powdered metals. Strong acids. Organic materials. Hazardous Decomposition Products Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	May cause drownsiness and dizziness based on components. May cause irritation of respiratory tract.
Eye Contact	Irritating to eyes.
Skin Contact	Irritating to skin.
Ingestion	There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium nitrate	= 3015 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Mutagenic Effects Carcinogenicity	No informatic No informatic The table bel		agency has listed any ingre	edient as a carcinogen.
Chemical Name	ACGIH	IARC	NTP	OSHA
Potassium nitrate	-	Group 2A	-	-
Reproductive Toxicity	No informatio	n available.		
STOT - single exposure	No information	n available.		
STOT - repeated exposu	re No informatio	n available.		
Aspiration hazard	No informatio	n available.		

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity **The following values are calculated based on chapter 3.1 of the GHS document**.

12. ECOLOGICAL INFORMATION

Ecotoxicity

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Potassium nitrate	-	-	-

Persistence and Degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical Name	Partition coefficient
Potassium nitrate	-

Other Adverse Effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging

Packing Group

Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Potassium nitrate	-	-	-	-

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Potassium nitrate	-	-	-	-

Chemical Name	California Hazardous Waste Status	
Potassium nitrate	Ignitable; Reactive	

14. TRANSPORT INFORMATION

DOT	
UN/ID no.	1486
Proper shipping name	POTASSIUMNITRATE
Hazard Class	5.1
Packing Group	III
ΙΑΤΑ	
UN/ID no.	1486
Proper shipping name	POTASSIUMNITRATE
Hazard Class	5.1

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15. REGULATORY INFORMATION

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies

PICCS	Complies
AICS	Complies
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Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Component	SARA 313 - Threshold Values %	
Potassium nitrate	1.0	

SARA 311/312 Hazard Categories

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

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium nitrate	-	-	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Potassium nitrate	-	-	-
U.S. State Regulations	1		

California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65
Potassium nitrate	-

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium nitrate	Х	Х	Х

U.S. EPA Label Information

EPA Pesticide Registration Number Not regulated

16. OTHER INFORMATION

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet