# WF Education Group - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.2

Revision date: Date printed: 16 April 2021 07 June 2021

PO5012

# Section 1. Identification

1.1	Product Identifier	PO5012
	Product Name	POTASSIUM NITRATE pure 500g.
	CAS Number REACH Registration No	7757-79-1 01-2119488224-35-XXXX
	Molecular Formula	KNO <sub>3</sub> =101.10

### 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier

1.4

WF Education Group



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# Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

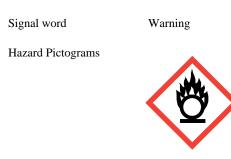
### Classification according to regulation 1272/2008/EC

Oxidising solid, category 3

H272: May intensify fire; oxidizer.

#### 2.2 Label elements

### Labelling according to regulation 1272/2008/EC



Hazard Statements

May intensify fire; oxidizer.

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

### Section 3. Composition

### 3.1 Substances

	(1272/2008/CE)
Potassium nitrate 7757-79-1 231-818-8 01-2119488224-35-XXXX >99.7% Ox. Sol. 3	

# Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION.
Skin	Wash off skin thoroughly with water.
Inhalation	Remove from exposure. If material has reacted with an acid to form, nitrous fumes, Obtain immediate medical attention even if patient is not complaining of discomfort.
Ingestion	If conscious give plenty of water to drink. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

#### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting		

5.1	Extin	guishing	media
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Extinguishing Media	Water spray.
Unsuitable Media	Nothing specified.

#### 5.2 Special hazards arising from the substance or mixture

May evolve toxic fumes if involved in a fire. Mixtures with combustible materials are flammable. Mixtures with finely divided combustible materials can react explosively.

#### **5.3 Advice for firefighters**

Hazards

Advice for firefighters

Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

# Section 6. Accidental Release Measures

Personal Protection	Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus Only re-enter area with full protective clothing and breathing apparatus.
	Only re-enter area with run protective clothing and oreatining apparatus.
6.2 Environmental precaution	IS
Enviromental	Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.
6.3 Methods and material for	containment and cleaning up
Major Spillage	Shovel/sweep up into container for removal Wash area down with copious amounts of water.
Minor Spillage	Wash area down with copious amounts of water.

### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

### Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations to a minimum.

#### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Store in a suitable area for oxidising agents. Keep well separated from combustible materials.

### 7.3 Specific end use(s)

See section 1.2.

### Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits			
			Long Term	(8hr TWA)	Short Term 1	5min period)
Potassium nitrate	7757-79-1	>99.7%	-	-	-	-

Exposure data source(s) No occupational exposure data currently available.

#### 8.2 Exposure controls

Respiratory Protection	If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.
Hand Protection	Wear gloves.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
Skin Protection	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.
Special Hazards	No special precautions required.

# Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance	Colourless to off-white crystals or crystalline solid
Odour	No specific odour.
pH	7 @ 20°C solution.
Boiling Point	400 °C (Decomposition)
Melting Point	335 °C
Flash Point	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	No.
Oxidising Properties	A strong oxidising agent.
Vapour Pressure	Not applicable
Relative Density	2.1100
Water Solubility	100 g/L @ 25 °C

#### 9.2 Other information

No data available.

# Section 10. Stability & Reactivity

<b>10.2</b> Chemical Stability Stable under normal condition
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**10.3** Possibility of hazardous No data available. reactions

**10.4** Conditions to Avoid Avoid contact with acids or combustible materials.

- **10.5** Incompatable Materials Acids : reacts to form poisonous nitrous fumes. Combustible materials. Ammonium salts, phthalic anhydride, thiosulphates, or urea. Cyanides.
- **10.6** Hazardous Decomposition Not flammable but will assist a fire, producing irritant and toxic fumes of oxides of nitrogen. Products

# Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Eyes	Contact with the solid or dust may be irritating to the eyes.
Skin	The solid and solutions may be irritating to the skin.
LD50 Skin	Not available
Ingestion	Harmful if swallowed. Repeated small doses cause a fall in blood pressure, rapid pulse, headache and visual disturbances. Larger doses cause nausea, vomiting, cyanosis, collapse and coma.
LD50 Oral	3750mg/kg Rat
Inhalation	Presents no significant health hazard by inhalation.
LD50 Inhalation	Not available
TCLo	Not available
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

# Section 12. Ecological

12.1	Toxicity	Low levels are readily bio-degraded in the environment. Higher levels are toxic to marine and plant life.
	LC50 Algal	Not available
	LC50 Crustacea	Not available
	LC50 Fish	Not available
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT & vPvB assessment	Assessment not required.
12.6	Other adverse effects	None known at present.

### Section 13. Disposal Considerations

### 13.1 Waste treatment methods

Disposal MethodsDo not dispose of as domestic waste.Contaminated PackagingWash out containers with water.

# Section 14. Transport Information

14.1	UN Number	1486	•
14.2	Proper Shipping Name	Potassium nitrate	
14.3	Transport classes		
	UN classification	5.1	
	Subsidiary hazard(s)	None	AGENT
	Transport category	3	5.1
	ADR Hazard ID	50	<b>.</b>
	Tunnel Restriction Code	E	
14.4	Packing Group	III	
14.5	Environment hazards	See section 12.	
14.6	Special precautions for user	No special precautions required.	
14.7	Transport in bulk	Not transported in bulk.	

# Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification	Oxidising solid, category 3
Signal word	Warning
Hazard Pictograms	
Hazard Statements	H272 May intensify fire; oxidizer.
Precautionary Statements	P210, P220, P221, P280 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 Wear protective gloves / protective clothing / eye protection.

15.2 Chemical safety assessment

Assessment not required.

# Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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