# WF Education Group - Safety Data Sheet

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

Revision: 2.1

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

**BA147**4

# Section 1. Identification

1.1	Product Identifier	BA1474
	Product Name	BARIUM NITRATE pure 250g.
	CAS Number REACH Registration No	10022-31-8 A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.
	Molecular Formula	Ba(NO <sub>3</sub> ) <sub>2</sub> =261.34
1.2 H	Relevent identified uses of the Uses of Material	he substance or mixure & uses advised against Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier

1.4

WF Education Group



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### (24hr) 112 (Have this document to hand)

# Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

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

Oxidising solid, category 2 Acute toxicity, category 3 (oral) Acute toxicity, category 4 (inhalation) Serious eye damage/irritation, category 2 H272: May intensify fire; oxidizer.H301: Toxic if swallowed.H332: Harmful if inhaled.H319: Causes serious eye irritation.

### 2.2 Label elements

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

Signal word

Hazard Pictograms

Danger



Hazard Statements

May intensify fire; oxidizer. Toxic if swallowed. Harmful if inhaled. Causes serious eye irritation.

Precautionary Statements

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

CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
10022-31- 8	233-020-5		>98%	Ox. Sol. 2, Acute Tox. 3 (O), Acute Tox. 4 (I), Eye Irrit. 2
		CAS No. EEC No.   10022-31- 233-020-5   8 8		

### Section 4. First Aid

### 4.1 Description of first aid measures

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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. Remove contaminated clothing immediately and wash before re-use.
Inhalation	Remove from exposure.
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 Extinguishing media

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.

#### **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

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Presents no major hazards.

### **6.2 Environmental precautions**

Environmental 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

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Wash area down with copious amounts of water.
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### 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.

### 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)
Barium nitrate	10022-31-8	>98%	-	-	-	-

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

### 8.2 Exposure controls

<b>Respiratory Protection</b>	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	White deliquescent crystalline material.
Odour	No specific odour.
pН	6 @ 20°C
Boiling Point	Not available
Melting Point	592 °C
Flash Point	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	No.
Oxidising Properties	Yes.
Vapour Pressure	Not applicable
Relative Density	3.24
Water Solubility	94 g/L

### 9.2 Other information

No data available.

# Section 10. Stability & Reactivity

10.1 Reactivity

No data available.

- **10.2** Chemical Stability
- Stable under normal conditions
- **10.3** Possibility of hazardous reactions
- **10.4** Conditions to Avoid Do not allow to impregnate wood or other organic materials.
- **10.5** Incompatable Materials Combustible materials. Many organic compounds.

No data available.

**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	>2000 mg/Kg Rat
Ingestion	Low order of acute toxicity.
LD50 Oral	50-300 mg/Kg Rat
Inhalation	Presents no significant health hazard by inhalation.
LD50 Inhalation	>1.1 mg/L Rat
TCLo	Not available
Carcinogenicity	No information is available.
Mutagenicity	No information is available.
Reproductive Effects	No information is available.

# 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	>30.1 mg/L Algae
	LC50 Crustacea	14.5 mg/L Daphnia
	LC50 Fish	>3.5 mg/L Fish
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 Methods	Do not dispose of as domestic waste.
Contaminated Packaging	Wash out containers with water.

### Section 14. Transport Information

14.1	UN Number	1446	•		
14.2	<b>Proper Shipping Name</b>	Barium nitrate			
14.3	Transport classes				
	UN classification	5.1			
	Subsidiary hazard(s)	6.1	AGENT		
	Transport category	2	5.1 6.1		
	ADR Hazard ID	56			
	Tunnel Restriction Code	E			
14.4	Packing Group	П			
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.			
Sec	Section 15. Regulatory Information				

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

Danger

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

Classification Oxidising solid, category 2; Acute toxicity, category 3 (oral); Acute toxicity, category 4 (inhalation); Serious eye damage/irritation, category 2

Signal word

Hazard Pictograms



Hazard StatementsH272, H301, H332, H319May intensify fire; oxidizer. Toxic if swallowed. Harmful if inhaled. Causes serious eye irritation.

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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