WF Education Group - Safety Data Sheet

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

Revision: 1.1

Revision date: Date printed:

16 April 2021 07 June 2021

BA1452

Section 1. Identification

1.1	Product Identifier	BA1452
	Product Name	BARIUM METAL (in paraffin liquid) 10g.
	CAS Number REACH Registration No	7440-39-3 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 =137.33
1.2 I	Relevent identified uses of t	he substance or mixure & uses advised against
	Uses of Material	Chemical for industrial and laboratory use. Not suitable for domestic use.
1.3	Supplier	WF Education Group
	VICKERS Working together with TIMSTAR Nerrer Conception	Phoenix House Battlefield Enterprise Park Stafford Drive Shrewsbury Shropshire SY1 3FE UNITED KINGDOM
	Phone Email	+44(0)1743 812200 sales@wf-education.com

Website

1.4

sales@wf-education.com www.timstar.co.uk **Emergency Telephone**

(08:30-17:00) +44(0)1743 812200 (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

Flammable solid, category 2 Contact with water > flam gas, category 2 Skin corrosion/irritation, category 2 Serious eye damage/irritation, category 2 Spec target organ tox - single, category 3

H228: Flammable solid. H261: In contact with water releases flammable gas. H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Danger





Ref: BA1452

Hazard Statements	Flammable solid. In contact with water releases flammable gas. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
Precautionary Statements	Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas. Protect from moisture. Wear protective gloves / protective clothing / eye protection / face protection. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. In case of fire: Evacuate area.
Supplemental Hazard Information (EU)	Reacts violently with water.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Barium	7440-39-3	231-149-1		<100%	Flam. Sol. 2,Water-react. 2,Skin Irrit. 2,Eye Irrit. 2,STOT SE 3 (I)

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. Remove contaminated clothing immediately and wash before re-use. If discomfort persists OBTAIN MEDICAL ATTENTION.
Inhalation	Remove from exposure. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation.
Ingestion	Wash out the patients mouth thoroughly with water. If conscious give plenty of water to drink. Do not induce vomiting. 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	Dry chemical powder.
Unsuitable Media	Water spray. Do not use carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Hazards Water spray. A flammable solid. Reacts with water to produce explosive hydrogen gas.

5.3 Advice for firefighters

Advice for firefighters

Consider all other materials in the vicinity.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate area immediately. Wear goggles, respirator, rubber boots and heavy rubber gloves. Ensure no sources of ignition.

6.2 Environmental precautions

Enviromental

Personal Protection

Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

WF Education Group - Safety Data Sheet

6.3 Methods and material for containment and cleaning up

Major Spillage Cover area of spill with lime. Allow time for the hydrolysis to take place. Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

Minor Spillage Shovel/sweep up into container for removal 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 below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage .

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		Exposure Limits
			Long Term (8	Shr TWA)	Short Term 15min period)
Barium	7440-39-3	<100%	-	-	0.5 ppm -

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Respiratory Protection	Wear NIOSH/MSHA-approved respirator.
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	Yellowish-white or grey chunks.
Odour	No specific odour.
pH	Not applicable
Boiling Point	1640°C
Melting Point	725°C
Flash Point	Not applicable
Upper Flammable Limit	Not applicable
Lower Flammable Limit	Not applicable
Auto Ignition	Not applicable
Explosive Properties	Reacts with water to produce explosive hydrogen gas.
Oxidising Properties	No.
Vapour Pressure	10mmHg@1094°C
Relative Density	3.8560
Water Solubility	Not specified.

9.2 Other information

Section 10. Stability & Reactivity

10.1	Reactivity	No data available.
10.2	Chemical Stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	No data available.
10.4	Conditions to Avoid	No specific conditions.
10.5	Incompatable Materials	Strong oxidising agents. Acids. Water. oxygen. chlorinated solvents.
10.6	Hazardous Decomposition Products	In combustion emits toxic fumes.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes	Contact with the solid or dust will be irritating to the eyes.
Skin	Contact with the solid or dust will be irritating to the skin.
LD50 Skin	Not available
Ingestion	Toxic if swallowed. May cause damage to central nervous system and kidneys.
LD50 Oral	Not available
Inhalation	Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract. Inhalation of the dust can result in symptoms similar to those due to ingestion.
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	Marine and/or freshwater pollutant. Do not allow to enter drinking water supplies. The following applies to Barium Compounds: biological effects; Fish, lethal from 158mg/l. Salmon lethal from 158mg/l: L.Idus LC50: 870mg/l [both as BaCl2]. Barium ions are toxic for aquatic organisms: algae: Sc. quadricauda toxic from 34mg/l: Crustaceans toxic from 29mg/l.
	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 Methods

Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

Contaminated Packaging

Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

Section 14. Transport Information 1400 14.1 UN Number 14.2 Proper Shipping Name Barium 14.3 Transport classes UN classification 4.3 DANGEROUS Subsidiary hazard(s) None WHEN WET Transport category 2 ADR Hazard ID 423 Tunnel Restriction Code D/E 14.4 Packing Group Π See section 12. 14.5 Environment hazards 14.6 Special precautions for No special precautions required. user 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	Flammable solid, category 2; Contact with water & amp; amp; gt; flam gas, category 2; Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2; Spec target organ tox - single, category 3
Signal word	Danger
Hazard Pictograms	
Hazard Statements	H228, H261, H315, H319, H335 Flammable solid. In contact with water releases flammable gas. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
Precautionary Statements	P210, P223, P231+P232, P280, P335+P334, P370+P380 Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas. Protect from moisture. Wear protective gloves / protective clothing / eye protection / face protection. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. In case of fire: Evacuate area.
Supplemental Hazard Information (EU)	EUH014 Reacts violently with water.

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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