


DR. J. PHARMACHEM (INDIA)

<b>MATERIAL SAFETY DATA SHEET</b>	
<b>1</b>	<b>IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</b>
<b>1.1</b>	<b>Product identifiers</b>
	Product Name Barium benzoate
	CAS NO. 553-00-6
<b>1.2</b>	<b>Relevant identified uses of the substance or mixture and uses advised against</b>
	Identified uses Laboratory chemicals, Manufacture of substances
<b>1.3</b>	<b>Details of the supplier of the safety data sheet</b>
	COMPANY DR. J. PHARMACHEM (INDIA)
	722/AB/15 'NIRMAL' ,LAXMI PARK COLONY,
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<b>2</b>	<b>HAZARDS IDENTIFICATION</b>
<b>2.1</b>	<b>Classification of the substance or mixture</b>
	<b>Classification according to Regulation (EC) No 1272/2008</b>
	Serious eye damage (Category 1) Specific target organ toxicity - single exposure (Category 3)
	<b>Classification according to EU Directives 67/548/EEC or 1999/45/EC</b>
	Xi Irritant R37, R41
<b>2.2</b>	<b>Label elements</b>
	<b>Labelling according Regulation (EC) No 1272/2008 [CLP]</b>
	Pictogram 
	Signal word Danger
	Hazard statement(s)
	H318 Causes serious eye damage. H335 May cause respiratory irritation.
	Precautionary statement(s)
	P261 Avoid breathing dust. P280 Wear protective gloves/ eye protection/ face protection. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several



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		minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Supplemental Hazard Statements	none
	R-phrase(s)	
	R37 R41	Irritating to respiratory system. Risk of serious damage to eyes.
2.3	<b>Other hazards</b>	none
3	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>	
3.1	<b>Substances</b>	
	Synonyms	Benzoic acid, barium salt
	Formula	C <sub>14</sub> H <sub>10</sub> BaO <sub>4</sub>
	Molecular Weight	379.55
	<b>Component</b>	<b>Concentration</b>
	Barium benzoate	Min 98%
	Other unknown impurities	Up to 2%
4	<b>FIRST AID MEASURES</b>	
4.1	<b>Description of first aid measures</b>	
	<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
	<b>If inhaled</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
	<b>In case of skin contact</b>	Wash off with soap and plenty of water. Consult a physician.
	<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
	<b>If swallowed</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2	<b>Most important symptoms and effects, both acute and delayed</b>	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
4.3	<b>Indication of any immediate medical attention and special treatment needed</b>	
	No data available	
5	<b>FIREFIGHTING MEASURES</b>	
5.1	<b>Extinguishing media</b>	
	<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2	<b>Special hazards arising from the substance or mixture</b>	Carbon oxides, Calcium oxide
5.3	<b>Advice for firefighters</b>	Wear self contained breathing apparatus for firefighting if necessary.
5.4	<b>Further information</b>	No data available
6	<b>ACCIDENTAL RELEASE MEASURES</b>	



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6.1	<b>Personal precautions, protective equipment and emergency procedures</b>
	Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
6.2	<b>Environmental precautions</b>
	Do not let product enter drains
6.3	<b>Methods and materials for containment and cleaning up</b>
	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4	<b>Reference to other sections</b>
	For disposal see section 13.
7	<b>HANDLING AND STORAGE</b>
7.1	<b>Precautions for safe handling</b>
	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
7.2	<b>Conditions for safe storage, including any incompatibilities</b>
	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
7.3	<b>Specific end uses</b>
	no data available
8	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
8.1	<b>Control parameters</b>
	<b>Components with workplace control parameters</b>
8.2	<b>Exposure controls</b>
	<b>Appropriate engineering controls</b>
	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
	<b>Personal protective equipment</b>
	<b>Eye/face protection</b>
	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
	<b>Skin protection</b>
	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
	<b>Body Protection</b>
	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace
	<b>Respiratory protection</b>
	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
9	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>



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9.1	<b>Information on basic physical and chemical properties</b>	
a)	Appearance	Form : solid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting range/freezing range	no data available
f)	Initial boiling point and boiling range	249.3 °C at 760 mmHg
g)	Flash point	no data available
h)	Enthalpy of Vaporization	51.4 kJ/mol
i)	Index of Refraction	no data available
j)	Molar Refractivity	no data available
k)	Vapour pressure	0.0122 mmHg at 25 °C.
l)	Density	no data available
m)	Oxidizing properties	no data available
n)	Solubility	Insoluble in water
o)	Partition coefficient: noctanol/water	no data available
p)	Polarizability	no data available
q)	Decomposition temperature	no data available
r)	Molar Volume	no data available
s)	Surface Tension	no data available
9.2	<b>Other safety information</b>	
	Molecular Formula	C14H10BaO4
	Molecular Weight	379.55
	SMILES	[Ba+2].[O-]C(=O)c1cccc1.[O-]C(=O)c1cccc1
	InChI	InChI=1S/2C7H6O2.Ba/c2*8-7(9)6-4-2-1-3-5-6;/h2*1-5H,(H,8,9);/q;+2/p-2
	EINECS	208-551-0
10	<b>STABILITY AND REACTIVITY</b>	
10.1	<b>Reactivity</b>	no data available
10.2	<b>Chemical stability</b>	no data available
10.3	<b>Possibility of hazardous reactions</b>	no data available
10.4	<b>Conditions to avoid</b>	no data available
10.5	<b>Incompatible materials</b>	Strong oxidizing agents, Strong bases, Strong reducing agents
10.6	<b>Hazardous decomposition products</b>	
11	<b>TOXICOLOGICAL INFORMATION</b>	
11.1	<b>Information on toxicological effects</b>	
	<b>Acute toxicity</b>	no data available
	<b>Skin corrosion/irritation</b>	no data available
	<b>Serious eye damage/eye irritation</b>	no data available
	<b>Respiratory or skin sensitization</b>	no data available
	<b>Germ cell mutagenicity</b>	no data available
	<b>Carcinogenicity</b>	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.



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	<b>Reproductive toxicity</b>	no data available	
	<b>Specific target organ toxicity - single exposure</b>	Inhalation - May cause respiratory irritation.	
	<b>Specific target organ toxicity - repeated exposure</b>	no data available	
	<b>Aspiration hazard</b>	no data available	
	<b>Potential health effects</b>		
	<b>Inhalation</b>	May cause respiratory tract irritation.	
	<b>Ingestion</b>	May be harmful if swallowed.	
	<b>Skin</b>	Causes skin irritation.	
	<b>Eyes</b>	Causes eye irritation.	
	<b>Signs and Symptoms of Exposure</b>		
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.		
	<b>Additional Information</b>		
	RTECS	No data available	
12	<b>ECOLOGICAL INFORMATION</b>		
12.1	<b>Toxicity</b>	no data available	
12.2	<b>Persistence and degradability</b>	no data available	
12.3	<b>Bioaccumulative potential</b>	no data available	
12.4	<b>Mobility in soil</b>	no data available	
12.5	<b>Results of PBT and vPvB assessment</b>	no data available	
12.6	<b>Other adverse effects</b>	no data available	
13	<b>DISPOSAL CONSIDERATIONS</b>		
13.1	<b>Waste treatment methods</b>		
	<b>Product</b>		
	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.		
	<b>Contaminated packaging</b>		
	Dispose of as unused product.		
14	<b>TRANSPORT INFORMATION</b>		
14.1	<b>UN number</b>		
	ADR/RID	IMDG	IATA
	-	-	-
14.2	<b>UN proper shipping name</b>		
	ADR/RID	IMDG	IATA
	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3	<b>Transport hazard class(es)</b>		
	ADR/RID	IMDG	IATA
	-	-	-
14.4	<b>Packaging group</b>		
	ADR/RID	IMDG	IATA
	-	-	-
14.5	<b>Environmental hazards</b>		
	ADR/RID	IMDG Marine pollutant	IATA
	no	no	no



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14.6	<b>Special precautions for user</b>
	no data available
15	<b>REGULATORY INFORMATION</b>
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
	no data available
15.2	<b>Chemical Safety Assessment</b>
	no data available
16	<b>OTHER INFORMATION</b>
	<b>Further information</b>
	<p>The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dr J Pharmachem (India) and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See <a href="http://www.jpharmachem.com">www.jpharmachem.com</a> and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.</p> <p>Month of creation :- November 2013 Month of revision :- November 2016</p>