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Infosafe No™ 1CH9B

Issue Date : January 2022 RE-ISSUED by CHEMSUPP

### Product Name BARIUM SULFATE

Not classified as hazardous

. Identification			
GHS Product	BARIUM SULFATE		
lentifier company Name	CHEMSUPPLY AUSTRALIA	A PTY LTD (ABN 19 008	264 211)
ddress	38 - 50 Bedford Stre	eet GILLMAN	
	SA 5013 Australia		
elephone/Fax Jumber	Tel: (08) 8440-2000		
mergency phone umber	CHEMCALL 1800 127 4	406 (Australia) / +64	-4-917-9888 (International)
-mail Address	www.chemsupply.com.a	au	
ecommended use of ne chemical and estrictions on use	oil and water based rheology of inks; as wallpaper; filler ar polymeric fibres, pl lipstick), paper and photographic papers, radiocontrast agent meal'); used in bror in heavy concrete for fluid to increase th hardening agent for (used in root canal	paints; used to redu s a water colouring p nd delustrant for rub lastics and resins, e d lithograph inks; pa , artificial ivory, c for X-ray imaging an nchography; used duri or radioactive shield he density; weighting cement; in stone con filling); pyrotechni	r lake colours; pigment extender for ce the colour strength and change the igment for coloured paper, in ber, linoleum, oil cloth, textiles, lectric insulation; cosmetics (eg, per coatings; manufacture of ellophane; used clinically as a d other diagnostic procedures ('Bariung the procedure of the soil pH test, ; a component of oil well drilling substance in some golf balls; servation; plaster; in dental cement cs; battery plate expanders; used in
other Names	Name	stic loams and powder	coatings and laboratory reagent. <b>Product Code</b>
their manies	BARIUM SULFATE Soil	Testing Grade	BL105
	Blanc fixe BARIUM SULFATE TG Barytes Basofor	looting of de	BT040
	for any use or purpo before use or applic before use or applic upon ChemSupply Aust advice in relation t disclaimed. Except t any statute as to th purpose is hereby ex provisions of Part V liability of ChemSup	ose. The user must as cation intended purpo cation is recommended tralia Pty Ltd with r to the suitability of to the extent prohibi he merchantable quali xcluded. This product V, Division 2 of the oply Australia Pty Lt t goods or payment of	rrant that this product is suitable certain the suitability of the product se. Preliminary testing of the product . Any reliance or purported reliance espect to any skill or judgement or this product of any purpose is ted at law, any condition implied by ty of this product or fitness for any is not sold by description. Where the Trade Practices Act apply, the d is limited to the replacement of the cost of replacing the goods or
. Hazard Identifi	cation		
GHS classification of he ubstance/mixture	System of classificate Health and Safety re	ation and labelling o egulations, Australia	the 7th Edition Globally Harmonised f Chemicals (GHS7) including Work, ing to the Australian Dangerous Goods
. Composition/inf	formation on ingredient	ts	
ngredients	Name	CAS	Proportion
-	Barium sulfate	7727-43-7	100 %
T			
. First-aid measu	res		



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Ingestion	artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.
Eye contact	In case of contact with eyes, wash with running water holding eyelids open. Take care not to rinse contaminated water into a non-affected eye. If irritation persits seek medical advice.
<b>First Aid Facilities</b>	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically and supportively.
Other Information	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.
5. Fire-fighting measures	

Hazards from Combustion Products	Toxic fumes of sulfur oxides (SO2, SO3, etc), barium fume and barium oxides.
Specific Methods	No limitations to the type of extinguishing media. Material does not burn. Small fire: Use dry chemical, CO2, water spray or foam. Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

### 6. Accidental release measures

	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms. Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

## 7. Handling and storage

Precautions for Safe Handling	Avoid ingestion and inhalation of vapours, or dusts. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Minimize dust generation and accumulation. Keep container closed. Use with adequate ventilation. Wear appropriate protective equipment.
Conditions for safe storage, including any incompatibilities	Store in tightly closed, labelled containers, in a cool, dry, well-ventilated area away from incompatible substances. Protect from physical damage. Store out of direct sunlight.
Storage Temperatures Unsuitable Materials	Store at room temperature (15 to 25 °C recommended). Aluminium.

## 8. Exposure controls/personal protection

Other Exposure Information	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for this product. There is a blanket limit of 10 mg/m <sup>3</sup> for dusts when limits have not otherwise been established.
Appropriate engineering controls	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply

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Infosafe No™	ТСНЭВ	Issue Date	:January	2022	RE-ISSUED by	CHEMSUPP
Product Name	BARIUM SULFA	FE				
		Not classif	fied as haz	ardous		
	with AS 1715 - Devices. Filte event of emerg pressure, full	Selection, Us r capacity and ency or planne -facepiece SCE itute a comple	se and Maint d respirator ed entry int BA should be ete respirat	enance of Re type depend o unknown co used. If re ory protect	be selected in a espiratory Prote ds on exposure 1 oncentrations a espiratory prote ion program incl inspection.	ctive evels. In positive ction is
Eye Protection		appropriate.	Must comply	with Austra	ty glasses with alian Standards .	
Hand Protection		and maintenar	ice. Recomm	endation:	tional protectiv Excellent: NR	
Personal Protective Equipment	Final choice o circumstances		-	-	depend on indiv undertaken.	idual
Footwear					foot protection ear - Guide to s	
<b>Body Protection</b>		g for protecti	on against	chemicals sl	rn, preferably w hould comply wit s.	
Hygiene Measures	-		5.	5	the toilet. Wash nt before storin	

## 9. Physical and chemical properties

Form	Solid	
Appearance	White or yellowish powder.	
Odour	Odourless.	
Melting Point	1380 °C (decomposition)	
Solubility in Water	Insoluble (ca. 2.2 mg/l at 18 °C).	
Solubility in Organic Solvents	Soluble in hot concentrated sulfuric acid; very slightly soluble in alkalis and in solution of many salts; practically insoluble in dilute acids, alcohol and organic solvents.	
Specific Gravity	4.5 at 15 °C	
рН	3.5 - 10.0 (10 % slurry)	
Vapour Pressure	Very low.	
<b>Evaporation Rate</b>	Negligible.	
Volatile Component	0 %vol @ 21 °C	
Flammability	Non combustible material.	
<b>Explosion Properties</b>	The reduction of barium sulfate by aluminium is attended by violent explosions.	
Molecular Weight	233.43	

## **10. Stability and reactivity**

Chemical Stability	Stable under ordinary conditions of use and storage.
Conditions to Avoid	Extremes of temperature, direct sunlight, dust generation and incompatible materials.
Incompatible Materials	Aluminium + heat; and phosphorus.
Hazardous Decomposition Products	Sulfur oxides.



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Product Name	BARIUM SULFATE		
	Not classified as hazardous		
Possibility of hazardous reactions	Heating with aluminium (powder) can produce an explosion. Admixed with excess red phosphorus, if primed at a high temp with potassium nitrate-calcium silicide mixture, will burn.		
Hazardous Polymerization	Will not occur.		
<b>11. Toxicological I</b>	nformation		
Acute Toxicity - Oral	LD50 (rat): > 20000 mg/kg.		
Ingestion	Since the substance is poorly absorbed, it is not expected to be a health hazard. The presence of soluble barium impurities, however, may cause toxic reactions due to bioaccumulation. Rarely, oral barium sulfate suspensions may cause constipation or intestinal obstruction due to impaction in the colon. Cramping from distention of the intestine by barium sulfate suspensions or diarrhoea may also occur. Retention of barium sulfate in the appendix has reportedly caused appendicitis. Barium sulfate fecaliths reported can lead to obstruction, intussusception, ulceration, or even intestinal perforation and may rarely require surgical removal. Aspiration of large amounts may cause pneumonitis or nodular granulomas of interstitial lung tissues and lymph nodes; asphyxiation and death have occurred in one patient. Although extremely rare, barium sulfate suspension has entered the systemic or portal veins after oral administration, possibly via mucosal ulceration, resulting in pulmonary embolism, granulomatous liver abscesses, or death. Hypersensitivity reactions to ingredients in commercial barium sulfate preparations have occurred rarely. Acute hypersensitivity reaction may rarely follow treatment with radioactive barium sulfate contrast medium, two deaths have resulted.		
Inhalation	Inhalation of dusts may irritate the respiratory system. Inhalation of fine dusts of barium sulfate causes a pulmonary reaction with mobilization of polymorphonuclear leukocytes and macrophages, and characteristic radiographic changes with dense, discrete, small opacities distributed throughout the lung fields (baritosis). The radiographic shadows appear to be due to the radio opacity of barium sulfate itself rather than to any tissue lesions, and the condition produces no symptoms of bronchitis or emphysema, with no abnormality of pulmonary function, and lung functioning is not affected, although some patients complain of dyspnoea upon exertion. Hypersensitivity reactions to ingredients in commercial barium sulfate preparations have occurred rarely. Acute inflammation of the bronchi and peripheral airways after accidental inhalation, has resulted in two deaths.		
Skin	Dust may cause mechanical irritation. May cause redness, itching and		
Eye	irritation. Dust may cause mechanical irritation. May cause tearing, stinging, blurred vision, and redness.		
Carcinogenicity	Not listed in the IARC Monographs.		
Chronic Effects	Repeated or prolonged inhalation of dust may lead to deposition in lungs in sufficient quantities to produce baritosis - a benign pneumoconiosis (characterized by deposition of particulate matter in the lung). This produces a radiological picture even though symptoms and abnormal signs may not be present. Barium sulfate is essentially insoluble in water and does not show the effects on all forms of muscle that is found in soluble compounds of barium. The presence of soluble barium impurities, however, may cause toxic reactions due to bioaccumulation. Barium sulfate has caused tumors in laboratory rats via intrapleural route.		
Mutagenicity	No evidence of mutagenic properties.		

## **12.** Ecological information

Ecotoxicity	Quantitative data on the ecological effect of this product are not available. Due to the poor solubility of the product, no harmful effects on plants and/or aquatic organisms are to be expected when handled and used with due care and attention.
Bioaccumulative Potential	This substance is expected to significantly bioaccumulate.



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#### Product Name BARIUM SULFATE

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Environmental Protection	Do not allow material to enter drains or waterways.
Acute Toxicity - Daphnia	Daphnia magna EC50: 52 mg Ba/l/24 h (expressed as Ba ion); 32 mg Ba/l/48 h (expressed as the ion).

#### 13. Disposal considerations

Disposal	Whatever cannot be saved for recovery or recycling should be disposed of
Considerations	according to relevant local, state and federal government regulations.

### 14. Transport information

Transport	Not classified as a Dangerous Good according to the Australian Code for the
Information	Transport of Dangerous Goods by Road and Rail.
Environmental Hazards	Due to the poor solubility of the product, no harmful effects on plants and/or aquatic organisms are to be expected when handled and used with due care and attention.

### 15. Regulatory information

Regulatory	Listed in the Australian Inventory of Chemical Substances (AICS).
Information	
<b>Poisons Schedule</b>	Not Scheduled

### **16. Other Information**

Literature References Contact Person/Point	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'. Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However,
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