

MATERIAL SAFETY DATA SHEET

Soil Test (pH) Dye Indicator

Updated according to Regulation E C No. 1907/2006

Identification : Nondangerous Goods

Product Code: Chemwatch [Australia] 8192-87

UN Number: None Allocated

Dangerous Goods Class & Subsidy Risk:

The elements that make up this liquid are not classified as dangerous according to Directive 67/548/EEC.

Packaging Group: None Allocated

Hazchem Code:

The elements that make up this liquid are not classified as hazardous according to criteria of NOHSC.

Poisons Schedule Number: None Allocated

Use: pH indicator of soils and general laboratory reagent

Physical Description and Properties:

Boiling Point: 100-102 degrees Celsius

Appearance: Green Liquid

Solubility in Water: Not Relevant

Other properties:

Ignition temperature: Not Relevant

Vapour density: Not Relevant

Other Information

Stable

Ingredients		CAS Number	Proportions
Bromocresol green	v 4 -7/2010	76-60-8	<1.0%
Bromocresol purple	v 4 -2/2010	115-40-2	<1.0%
Phenol red	v 4 -2/2010	143-74-8	<1.0%
Sodium hydroxide		1310-73-2	<1.0%
Water		7732-18-5	>99%

All constituent chemical are listed in the Australian Inventory of Chemical Substances (AICS)

Health Hazard Information:

Toxicological Information **No Data**
No evidence of carcinogenic properties
No evidence of mutagenic or teratogenic effects

Quantitative data on the toxicity of this product are not available. Hazardous properties cannot be excluded but are unlikely when handled appropriately. The product should be handled with care as usual when dealing with chemical.

First Aid Information: Universal Indicator Liquid

Eye contact: Irrigate thoroughly with water for 15 minutes. If discomfort persists obtain medical attention.

Inhalation: Remove from exposure.

Skin contact: Wash off thoroughly with soap and water.

Ingestion: Wash out mouth thoroughly with water. In severe cases obtain medical attention.

Advice to Doctors: Treat symptomatically.

First Aid Facilities: No information.

Precautions for use:

Exposure standards:

Worksafe Australia TWA:	None Assigned
Worksafe Australia STEL:	None Assigned
UK Exposure Limits:	None Assigned

Engineering Controls:

As appropriate to quantity handled. Extraction Hood.

Personal Protection: for handling large bulk quantities in difficult locations:

Gloves: Rubber or Plastic

Eye Protection: Goggles or Face-shield

Other precautions: Plastic apron, sleeves, boots – if handling large quantities.

Safe Handling Information:

Storage and Transport

UN Number: None allocated
Dangerous goods and Subsidiary Risk: None allocated
Packaging group: None allocated
Store at room temperature (15 to 25 degrees Celsius [recommended]).
Keep well closed and protected from direct moisture and sunlight.

Spillage and disposal of bulk quantities

Wear appropriate protective clothing – eg rubber gloves if required.
Mix with sand, transfer carefully to container and arrange removal by disposal. Wash site of spillage thoroughly with water and detergent.
For large spillages, liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling

Fire/Explosion Hazard

Negligible

Other Information

Stable

Other Information

EC Hazard Symbols

Not applicable

Risk Phrases

Not applicable

Safety Phrases

Not applicable

Barium Sulphate Powder

Updated according to Regulation E C No. 1907/2006

Identification : Nondangerous Goods**1. IDENTIFICATION****General**

Product Name : BARIUM SULPHATE

Other Names : BARIUM SULPHATE ; BARYTES (NATURAL) ; BASOFOR
BLANC FIXE (ARTIFICIAL, PRECIPITATED)

UN No. : N/A

Dangerous Goods Class : None allocated

Hazchem Code : N/A

Poisons Schedule : N/A

Uses :

Weighing Mud in oil drilling, paper coatings, paints, filler and delustrant for textiles, rubber, plastics and lithograph inks, base for lake colours, x-ray photography, **opaque medium for gastrointestinal radiography**, in battery plate expanders.

1.1 Physical Description / Properties

Appearance : White, or yellowish odourless, tasteless powder

Formula : BaSO₄

Specific Gravity : 4.3 (water = 1)

Acidity pH : 7 (150 g/l)

Solubility in water : N/A g/l (25 deg C)

Flammability Limits (as percentage volume in air)

1. Ingredients

Chemical Entity	CAS No.	Proportions (%)
BARIUM SULPHATE	[7727-43-7]	>99

**2. HEALTH HAZARD INFORMATION
HEALTH HAZARD : SLIGHT**

Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP OR OSHA.

No hazards expected in normal industrial use.

Material is non flammable, does not burn or support combustion.

Material is stable inert, hazardous polymerisation will not occur, decomposition will not occur.

2.1 Health Effects – Acute

Swallowed

No hazard expected in normal industrial use

Eye

Dust may cause mechanical irritation

Skin

Dust may cause mild mechanical irritation

No Hazard expected in normal industrial use.

2.2 Health Effects – Chronic Exposure Ingestion

Repeated exposure may cause baritosis, a benign condition characterised by the deposition of particulate matter in the lung, not life threatening.

2.3 First Aid

Swallowed

If victim is conscious and alert, give 2-4 cupfuls of milk or water to drink. Seek medical attention immediately.

Eye

Immediately flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower lids. Seek medical attention.

Inhaled

Remove from exposure to fresh air immediately. Seek medical attention.

2.5 Advice to Doctor

There is no specific antidote. Treat symptomatically based on judgement of doctor and individual reaction of patient.

2.6 Toxicity Data

Oral LD50 = not available Dermal LD50 = not available Inhalation LC50 = not available

Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP OR OSHA.

3. PRECAUTIONS FOR USE.

3.1 Exposure Standards

Worksafe Australia recommends the following exposure limit:

Barium Sulphate : TWA 10 mg/m³ STEL – 10 ppm, ACGIH-TLL- 10mg/m³.
This value is for inspirable dust containing no asbestos and less than 1% crystalline silica.

3.2 Personal Protection for handling bulk items

Wear appropriate protective eyeglasses or chemical safety goggles to prevent eye contact. Wear impervious gloves. Wear appropriate protective clothing to minimise skin contact. Wear appropriate breathing apparatus according to risk of exposure and airborne concentrations. Minimise dust generation and accumulation.

3.3 Flammability

Non-combustible

4. Safe Handling Information

4.1 Storage/ Transport

Store in a cool, dry and well-ventilated area away from incompatible materials. No special precautionary measures.

4.2 Packaging/ Labelling

Hazchem Code N/A

Shipping Name BARIUM SULPHATE

Risk Phrases

R20/22 Harmful by inhalation and if swallowed

Safety Phrases

S28: BASULP After contact with skin, wash immediately with plenty of soap and water.

4.3 Spills and Disposal

Spills – bulk items only

Clean-up personnel should wear full protective clothing including breathing apparatus in dusty conditions. **Avoid generating dust.**

4.4 Fire and Explosion Hazard

Fire/ Explosion

Material is stable at room temperature in closed containers under normal storage and handling condition. Hazardous decomposition products include oxides of sulphur, barium fumes. Hazardous polymerisation has not been reported.

5 Other Information

Other Information

No data available