

SAFETY DATA SHEET

Date of latest revision: 14 June 2024

1. IDENTIFICATION

Product Name: Bentonite Plug

Recommended Use: Bentonite has a variety of uses. It can be used as a rheology modifier, binding agent, adsorbent, hydraulic-barrier, and filler.

MANUFACTURER NAME AND ADDRESS:

Manufactured in Australia for Blick Group

AUSTRALIA SUPPLIER NAME AND ADDRESS:

Blick

20 Trevi Crescent, Tullamarine, VIC 3043, Australia

Enquiry phone number:

+61 3 9068 5688 (Melbourne)

+61 8 6271 3575 (Perth)

Emergency phone number:

Australia Poisons Information Centre
131 126

NEW ZEALAND SUPPLIER NAME AND ADDRESS:

Blick

21 Kahu Crescent, Te Rapa, Hamilton 3200, New Zealand

Enquiry phone number: +64 7 849 2366

Emergency phone number:

NZ National Poisons Centre
0800 POISON / 0800 764 766

2. HAZARD IDENTIFICATION

Classification of the Hazardous Chemical:

Physical hazards Not classified.

Health hazards Not classified.

Environmental hazards Not classified.

Label Elements, Including Precautionary Statements:

Hazard symbol(s) None.

Signal word None.

Hazard statement(s) Not available.

Prevention Not available.

Response Not available.

Storage Not available.

Disposal Not available.

Other Hazards Which Do Not Result In Classification

None known.

Supplemental Information None.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Concentration
BENTONITE SMECTITE CLAY	1302-78-9	100
SMECTITE GROUP MINERALS	1318-93-0	
Calcium carbonate PRECIPITATED CALCIUM CARBONATE (PCC)	471-34-1	
Crystalline silica, quartz SILICA (QUARTZ)	14808-60-7	<= 8
Cristobalite	14464-46-1	<= 2

Composition Comments The purity of the product is 100% w/w. Impurities are not applicable for a UVCB substance.

Bentonite is a UVCB substance sub-type 4. The purity of the product is 100 % w/w. Bentonite is composed mainly of smectite group minerals but the composition is varied, as expected for a UVCB substance, and other mineral constituents will be present in small and varying amounts. These minor constituents are not relevant for classification and labelling.

4. FIRST-AID MEASURES

Ingestion: No specific first aid measures noted. Rinse mouth thoroughly. Get medical attention if any discomfort occurs.

Inhalation: No specific first aid measures noted. Move to fresh air. Call a physician if symptoms develop or persist.

Skin Contact: No specific first aid measures noted. Wash skin with soap and water. Get medical attention if irritation develops and persists..

Eye Contact: No specific first aid measures noted. Flush thoroughly with water. If irritation occurs, get medical assistance.

Personal Protection for First-Aid Responders: No hazards which require special first aid measures. Provide general supportive measures and treat symptomatically.

Symptoms Caused by Exposure: Dust in the eyes will cause irritation.

Medical Attention and Special Treatment: Provide general supportive measures and treat symptomatically.

5. FIRE-FIGHTING MEASURES

General fire hazards This material will not burn.

Suitable Extinguishing Media: Use any media suitable for the surrounding fires..

Unsuitable Extinguishing Media: Not applicable, non-combustible.

Specific Hazards Arising From the Chemical: None known. The product itself does not burn.

Special Protective Equipment And Precautions For Fire Fighters: None known

Fire-Fighting Equipment/Instructions: Material can be slippery when wet.

Hazchem Code: None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For Non-Emergency Personnel: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

For Emergency Responders: Avoid generation and spreading of dust. Avoid inhalation of dust. Wear a dust mask if dust is generated above exposure limits. Material can be slippery when wet.

Environmental Precautions: No special environmental precautions required. Prevent further leakage or spillage if safe to do so.

Methods and Materials For Containment and Cleaning Up: Avoid the generation of dusts during clean-up. Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into closed container.

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7. HANDLING AND STORAGE

Precautions For Safe Handling: Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.

Conditions For Safe Storage, Including Any Incompatibilities: Store in a dry area. Keep the container dry. No special restrictions on storage with other products.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters: Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled.

Occupational Exposure Limits

Constituents	Type	Value	Form
UK. EH40 Workplace Exposure Limits (WELs)			
INERT OR NUISANCE DUSTS	TWA	4 mg/m ³	Respirable dust
INERT OR NUISANCE DUSTS	TWA	10 mg/m ³	Inhalable dust
Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)			
INERT OR NUISANCE DUSTS	TWA	4 mg/m ³	Respirable dust
INERT OR NUISANCE DUSTS	TWA	0.3 mg/m ³	Inhalable dust

Biological Limit Values: No biological exposure limits noted for the ingredient(s).

Exposure Guidelines: No Exposure standards allocated.

Appropriate Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Individual Protection Measures

Eye/Face Protection: Wear dust-resistant safety goggles where there is danger of eye contact.

Hand Protection: No protection is ordinarily required under normal conditions of use.

Other Skin Protection: No special protective equipment required. Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory Protection: Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.

Thermal Hazards: Not applicable.

Hygiene Measures: Use good industrial hygiene practices in handling this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Lump, granular or fine powder.

Physical State: Solid.

Form: Tablet. or Chips.

Color: Various.

Odor: None.

Odor Threshold: Not applicable.

pH: 8.5 - 11

Melting Point/Freezing Point:
> 450 °C (> 842 °F) / Not applicable.

Initial Boiling Point & Boiling Range: Not applicable.

Flash Point: Not applicable.

Evaporation Rate: Not applicable.

Flammability (solid, gas):
This product is not flammable.

Flammability Limit - upper (%): Not applicable.

Flammability Limit - lower (%): Not applicable.

Explosive Limit - upper: Not applicable.

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Explosive Limit - lower: Not applicable.**Vapor Pressure:** Not applicable.**Vapor Density:** Not applicable.**Relative Density:** 2.6 g/cm³**Solubility in Water:** < 0.9 mg/l**Partition Coefficient (n-octanol/water):**
Not applicable.**Auto-ignition Temperature:** Not applicable.**Decomposition Temperature:** > 500 °C (> 932 °F)**Viscosity:** Not applicable.**Viscosity Temperature:** Not applicable.**Other Physical and Chemical Parameters****Bulk Density:** 0.9 - 1.4 g/cm³**Explosive Limit:** Not applicable.**Explosive Properties:** Not explosive**Explosivity:** Not applicable.**Flame Extension:** Not applicable.**Flammability:** Not applicable.**Flammability (flash back):** Not applicable.**Flammability (Heat of combustion):** Not applicable.**Flammability (Train fire):** Not applicable.**Flash Point Class:** Not flammable**Molecular Formula:** UVCB Substance**Molecular Weight:** Not applicable.**Oxidising Properties:** None.**Percent Volatile:** 0 %**pH in Aqueous Solution:** 8.5 - 11**Specific Gravity:** Not applicable.**VOC:** 0 %

10. STABILITY AND REACTIVITY

Reactivity: Not available.**Chemical Stability:** Stable at normal conditions.**Possibility of Hazardous Reactions:** Will not occur.**Conditions to Avoid:** Moisture.**Incompatible Materials:** None known.**Hazardous Decomposition Products:** None.

11. TOXICOLOGICAL INFORMATION

Information on Possible Routes of Exposure

Ingestion: Not classified.**Inhalation:** Not classified. Inhalation of dusts may cause respiratory irritation..**Skin Contact:** Not classified.**Eye Contact:** Not classified. Dust in the eyes will cause irritation.**Symptoms Related to Exposure:** None known.**Acute Toxicity:** Not classified.

Product	Species	Test Results
BENTONITE (CAS 1302-78-9)		
Acute Inhalation		
Dust LC50	Rat	> 5.27 mg/l, 4 hr OECD 436
Oral		
Dust LC50	Rat	> 2000 mg/kg OECD 425

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Skin Corrosion/Irritation: Not classified.

Serious Eye Damage/Irritation: Not classified. Mild irritant to eyes (according to the modified Kay & Calandra criteria)

Respiratory or Skin Sensitisation

Respiratory Sensitisation: Not classified.

Skin Sensitisation: Not classified.

Germ Cell Mutagenicity: Not classified.

Carcinogenicity: No carcinogenicity data available for this product. Sepiolite was evaluated by IARC as class 3 ("Cannot be classified as to carcinogenicity to humans"). Based on read-across with sepiolite, bentonite was assessed as non-carcinogenic. Therefore classification of bentonite for carcinogenicity is not warranted.

Reproductive Toxicity: Not classified.

Specific Target Organ Toxicity - Single Exposure: Not classified.

Specific Target Organ Toxicity -Repeated Exposure: Not classified.

Aspiration Hazard: Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product	Species	Test Results
BENTONITE (CAS 1302-78-9)		
Aquatic		
Algae EC50	Freshwater algae	> 100 mg/l, 72 hours
Crustacea EC50	Coon stripe shrimp (Pandalus danae)	24.8 mg/l, 96 hours
Crustacea EC50	Daphnia	> 100 mg/l, 48 hours
Crustacea EC50	Dungeness or edible crab	(Cancer 81.6 mg/l, 96 hours magister)
Fish LC50	Freshwater fish	16000 mg/l, 96 hours
Fish LC50	Marine water fish	2800 - 3200 mg/l, 24 hours

Persistence and Degradability: Not relevant for inorganic substances.

Bioaccumulative Potential: Will not bio-accumulate.

Partition Coefficient n-octanol / Water (log Kow): Not applicable.

Mobility in Soil: Low water solubility, expected to sink and migrate into the sediment. Expected to partition to sediment and wastewater solids.

Mobility in General: The product has poor water-solubility.

Other Adverse Effects TNo other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Dispose in accordance with all applicable regulations.

Residual Waste:

Dispose of in accordance with Residual waste local regulations.

Contaminated Packaging:

Store containers and offer for recycling of material when in accordance with the local regulations.

14. TRANSPORT INFORMATION

ADG	Not regulated as dangerous goods.
RID	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

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15. REGULATORY INFORMATION

Safety, health and environmental regulations

National regulations

Australia Medicines & Poisons Appendix A:

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B:

BENTONITE (CAS 1302-78-9)

Australia Medicines & Poisons Appendix D:

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E:

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix F:

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix G:

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H:

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I:

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J:

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K:

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 10:

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2:

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 3:

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4:

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 5:

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 6:

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 7:

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8:

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9:

Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)**BENTONITE (CAS 1302-78-9)**

1000 - 9999 TONNES See the regulation for additional information

Calcium Carbonate (CAS 471-34-1)

1000 - 9999 TONNES See the regulation for additional information

Importation of Ozone Depleting Substances**(Customs(Prohibited imports) Regulations 1956, Schedule 10):** Not listed.**National Pollutant Inventory (NPI) substance reporting list****INERT OR NUISANCE DUSTS (CAS SEQ250):**

2000 TONNES/YR Threshold Category: 2B

400 TONNES/YR Threshold Category: 2A

Prohibited Carcinogenic Substances: Not regulated.**Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended):** Not listed.**Restricted Importation of Organochlorine Chemicals****(Customs(Prohibited Imports) Regulations 1956, Schedule 9):** Not listed.**Restricted Carcinogenic Substances:** Not regulated.**International regulations****Stockholm Convention:** Not applicable.**Rotterdam Convention:** Not applicable.**Kyoto Protocol:** Not applicable.**Montreal Protocol:** Not applicable.**Basel Convention:** Not applicable.

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16. OTHER INFORMATION

Further Information: This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

Key Abbreviations or Acronyms Used:

SWERF = Size-Weighted Relevant Fine Fraction methodology is a scientific method developed to quantify the content of respirable particles within a bulk product. All details about the SWERF method are available at www.crystallinesilica.eu.

UVCB = a substance of Unknown or Variable composition, Complex reaction products or Biological materials

References: For any information on literature references or toxicity/ecotoxicity studies, please contact the supplier.

Revision Information: Product and Company Identification: Alternate Trade Names Composition / Information on Ingredients: Disclosure Overrides

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

Third party materials: Insofar as materials not manufactured or supplied by this manufacturer are used in conjunction with, or instead of this product, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of this product in conjunction with materials from another supplier. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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