

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 22-Sep-2009

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Revision Number 1

1. Identification				
Product Name	Bentonite			
Cat No. :	B235-500			
Synonyms	tixoton; Southern bentonite; Bentonite magma			
Recommended Use	Laboratory chemicals.			
Uses advised against Details of the supplier of the s	No Information available safety data sheet			
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887			

2. Hazard(s) identification

Classification

Tel: (201) 796-7100

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system.

Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Causes eye irritation Causes skin irritation May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear eye/face protection

Wear protective gloves

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Response

Call a POISON CENTER or doctor/physician if you feel unwell

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation occurs: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

Other hazards

May be harmful if swallowed. hygroscopic.

3. Composition / information on ingredients

Component		CAS-No	Weight %	
Bentonite		1302-78-9	>95	
	4.	First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.			
Skin Contact	Wash off imn	nediately with plenty of water for at leas	t 15 minutes. Obtain medical attention.	
Inhalation	Move to fresh	n air. If breathing is difficult, give oxyger	n. Obtain medical attention.	
Ingestion	Do not induce vomiting. Obtain medical attention.			
Most important symptoms/effects	No information available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea: Exposure through inhalation may result in delayed pulmonary edema, which may be fatal: Symptoms may include tightness in the chest, flushing, headache, nausea, vomiting, respiratory depression, weakness, irregular heartbeat, abdominal pain, convulsions, and shock: Symptoms may be delayed			
Notes to Physician	Treat symptomatically			
	5. Fi	re-fighting measures		
Suitable Extinguishing Media	Substance is	nonflammable; use agent most approp	riate to extinguish surrounding fire.	
Unsuitable Extinguishing Media	No information available			
Flash Point	No information available			

Method -	No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

	Health 2	Flammability 1	Instability 0	Physical hazards N/A
		6. Accidental re	lease measures	
Personal	Precautions	Ensure adequate ventilatio Avoid contact with skin, evo		uipment. Avoid dust formation.
Environr	nental Precautions		the environment. See Section	n 12 for additional ecological
Methods Up	for Containment and C	lean Sweep up or vacuum up sp formation. Provide adequa		ontainer for disposal. Avoid dust
		7. Handling a	and storage	
Handling	I		gestion and inhalation. Avoid o	entilation. Avoid contact with skin, dust formation. Handle under inert
Storage		Keep containers tightly clos atmosphere.	sed in a dry, cool and well-ven	tilated place. Store under an inert

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Bentonite	TWA: 1 mg/m ³		
Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

 Engineering Measures
 Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

 Personal Protective Equipment
 Vear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties Powder Solid

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Relative Density
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity

Beige Odorless No information available No information available No data available No information available No information available No data available No data available No data available No information available No information available No information available Insoluble in water No data available No information available No information available No information available

No offer available No information available No information available No information available

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under recommended storage conditions. Hygroscopic. Moisture sensitive.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents, Strong acids
Hazardous Decomposition Product	${f s}$ Thermal decomposition can lead to release of irritating gases and vapors
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Bentonite	5000 mg/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic	No information available		
Products			
Delayed and immediate effects	as well as chronic effects fror	n short and long-term exposure	9
Irritation	Irritating to eyes, respirato	ry system and skin	

Sensitization

No information available

Carcinogenicity

Possible cancer hazard. May cause cancer based on animal data. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Bentonite	1302-78-9	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	ts	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single exposision STOT - repeated ex		Respiratory syster None known	n			
Aspiration hazard		No information available				
Symptoms / effects,both acute and delayed		Ingestion may cau through inhalation may include tightn depression, weakn Symptoms may be	may result in dela ess in the chest, fl ness, irregular hea	yed pulmonary edeushing, headache,	ema, which may be nausea, vomiting,	e fatal: Symptoms respiratory
Endocrine Disrupto	r Information	No information ava	ailable			
Other Adverse Effe	cts	See actual entry ir been fully investig When inhaled as a may cause lung changes, chest pa	ated. May be harm a dust or fume, ma	ful if swallowed. N y cause benign pn	lay cause chemica eumoconiosis. Chr	I conjunctivitis.

12. Ecological information

Ecotoxicity Do not empty into drains. Do not flush into surface water or sanitary sewer system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea	
Bentonite	Not listed	8.0 - 19.0 g/L LC50 96 h 19000 mg/L LC50 96 h	Not listed	Not listed	
Persistence and Degradab	ility No informatio	on available			
Bioaccumulation/ Accumu	lation No information	on available.			
Mobility		No information available. 13. Disposal considerations			
Waste Disposal Methods	Chemical wa hazardous w	ste generators must detern aste. Chemical waste gene ardous waste regulations to	nine whether a discarded erators must also consult	local, regional, and	
	14. T	ransport informa	ation		
DOT	Not regulated				

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DOT	Not regulated	
DOT TDG	Not regulated	
<u>IATA</u>	Not regulated	
IMDG/IMO	Not regulated	
	15. Regulatory information	

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Bentonite	Х	Х	-	215-108-5	-		Х	-	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable

SARA 311/312 Hazardous Categoriza Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Haz Reactive Hazard		Yes No No No No
Clean Water Act	Not applicable	

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

State Right-to-Know	Not applicable
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U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

