



1 Identification Product identifier Product name: Bentonite, sodium form Stock number: A15795 CAS Number: 1302-78-9 EC number: 215-108-5 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. Inerrito Fisher Scheman C. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech @alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789. 2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known. I abel elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 1 Health (acute effects) = 1Flammability = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 1302-78-9 Bentonite, sodium form

EC number: 215-108-5 4 First-aid measures

Identification number(s):

Description of first aid measures

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.

After skin contact

Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Calcium oxide Silicon oxide Sodium oxide Aluminum oxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

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(Contd. of page 1, Methods and material for containment and cleaning up: Pick up mechanically. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 13 for disposal information.			
Conditions for safe storage, including a Storage Requirements to be met by storerooms	plosions and fires: The product is not flammable ny incompatibilities and receptacles: No special requirements. on storage facility: Do not store together with acids. itions:		
Specific end use(s) No further relevant in	formation available.		
Control parameters Components with limit values that requ	technical systems: signed for hazardous chemicals and having an average face velocity of at least 100 feet per m	inute.	
Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measu The usual precautionary measures for har Keep away from foodstuffs, beverages and Remove all soiled and contaminated cloth Wash hands before breaks and at the end Maintain an ergonomically appropriate woo Breathing equipment: Use suitable respin Pacemenorated filter dovice for chort for	res dling chemicals should be followed. I feed. ng immediately. of work. king environment. ator when high concentrations are present.	ned to determine if air-	
Impervious aloves	for their proper condition. epends on the material, but also on quality. Quality will vary from manufacturer to manufacture inutes) Not determined		
9 Physical and chemical properties			
Information on basic physical and chemical properties General Information			
Appearance: Form: F Color: () Odor: ()	Powder Cream to grey Odorless		
	lot determined. Iot applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	lot determined lot determined lot determined lot determined lot determined lot determined lot determined		
Danger of explosion: N Explosion limits: N Lower: N Upper: N Vapor pressure: N Density: N Relative density N Evaporation rate N Solubility in / Miscibility with N	lot determined. lot determined lot applicable. lot determined lot determined. lot applicable. lot applicable. lot applicable.		
Partition coefficient (n-octanol/water): N Viscosity: dynamic: N kinematic: N			

10 Stability and reactivity

Reactivity No information known.

Product name: Bentonite, sodium form	
Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not of Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Acids Hazardous decomposition products: Calcium oxide Silicon oxide Sodium oxide Aluminum oxide	(Contd. of page
11 Toxicological information	
Information on toxicological effects Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances Carcinogenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorn No classification data on carcinogenic properties of this material is available from Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Subst Additional toxicological information: To the best of our knowledge the acute	s (RTECS) contains mutation data for this substance. igenic and/or carcinogenic and/or neoplastic data for this substance. m the EPA, IARC, NTP, OSHA or ACGIH. n.
12 Ecological information	
Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground water, water of Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. VPvB: Not applicable. Other adverse effects No further relevant information available.	course or sewage system.
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper Uncleaned packagings:	disposal.
Recommendation: Disposal must be made according to official regulations.	
14 Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	Not applicable
Class Packing group	Not applicable
DOT, IMĎG, IÀTA	Not applicable
Environmental hazards: Special precautions for user	Not applicable. Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	-
15 Regulatory information Safety, health and environmental regulations/legislation specific for the su GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable National regulations All components of this product are listed in the U.S. Environmental Protection A All components of this product are listed on the Canadian Domestic Substances SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed.	gency Toxic Substances Control Act Chemical substance Inventory. s List (DSL).
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(Contd. of page 3) Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.			
16 Other information Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.			
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: ADR: Accord européen sur le transportation DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCSD: Lethal concentration, 50 percent			

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent VPUB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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