



### 1 Identification

Product identifier

Product name: 4-Bromoveratrole

Stock number: L02349 **CAS Number:** 2859-78-1 EC number: 220-677-8 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)



Health (acute effects) = 1 I Flammability = 1 ■ Physical Hazard = 1

Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

#### 3 Composition/information on ingredients

Chemical characterization: Substances CAS# Description: 2859-78-1 4-Bromoveratrole Identification number(s): EC number: 220-677-8

#### 4 First-aid measures

## 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 Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:

Tarbon monoxide and carbon dioxide Hydrogen bromide (HBr) 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

Environmental precautions: Do not allow material to be released to the environment without proper governmental permiss. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). (Contd. on page 2) USA

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<b>Prevention of secondary hazards:</b> No <b>Reference to other sections</b> See Section 7 for information on safe ha See Section 8 for information on person See Section 13 for disposal information.	ndling al protection equipment	(Contd. of page 1)
Conditions for safe storage, including Storage Requirements to be met by storeroon	explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. nmon storage facility: Store away from oxidizing agents. nditions: ed containers.	
8 Exposure controls/personal prote		
	o <b>f technical systems:</b> designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Control parameters Components with limit values that red Additional information: No data	quire monitoring at the workplace: Not required.	
Impervious aloves	andling chemicals should be followed. and feed. thing immediately. not of work. vorking environment. pirator when high concentrations are present. e for their proper condition. r depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
9 Physical and chemical properties		
Information on basic physical and ch General Information Appearance: Form:		
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 125-127 °C (257-261 °F) (10mm Hg) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	109 °C (228 °F) Not determined Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower: Upper:	Product does not present an explosion hazard. Not determined Not determined	
Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	Not determined 1.702 g/cm³ (14.203 lbs/gal) Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity:	Not determined : Not determined.	
dynamic: kinematic: Other information	Not determined. Not determined. No further relevant information available.	
10 Stability and reactivity Reactivity No information known.		

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide

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Product name: 4-Bromoveratrole		
Hydrogen bromide		(Contd. of page 2)
Specific target organ system toxicity - repeated exposure: I Specific target organ system toxicity - single exposure: No Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known.	rties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. No effects known.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information Bioaccumulative potential No further relevant information ava Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without Do not allow undiluted product or large quantities to reach groun 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.	nrable. t proper governmental permits. nd water, water course or sewage system.	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local or national regulations to Uncleaned packagings: Recommendation: Disposal must be made according to officia		
<b>14 Transport information</b> Not a hazardous material for transportation.		
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA	None	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 ar		
Transport/Additional information:	Not dangerous according to the above specifications.	
DOT Marine Pollutant (DOT):	No	
All components of this product are listed on the Canadian Non-I SARA Section 313 (specific toxic chemical listings) Substan California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not list Prop 65 - Developmental toxicity, male Substance is not listed Information about limitation of use: For use only by technical Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the F	ntal Protection Agency Toxic Substances Control Act Chemical substance Invento Domestic Substances List (NDSL). Ince is not listed. Isted. Isted. Ily qualified individuals. REACH Regulations (EC) No. 1907/2006. Substance is not listed. Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufactur.	
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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. conformance with this Material Safety Data Sheet, or in con Department issuing SDS: Global Marketing Department Date of preparation / last revision 1/23/2015 / -Abbreviations and acronyms: IMD6: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 60 percent VPWs very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) USA