Safety Data Sheet



Page 1/4 Printing date 03/31/2017 Revision date 03/30/2017 Version 1

	Version 1
1 Identification	_
Product identifier	
Product name: <u>Bicinchoninic acid, disodium salt</u>	
Stock number: 44247 CAS Number: 979-88-4	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Alfa Aesar	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757	
Fax: 800-322-4757 Email: tech@alfa.com	
www.afa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number:	0700
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0	J789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS07	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye irritation.	
STOT SE 3 H335 May cause respiratory irritation. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms	
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GHS07	
Signal word Warning	
Hāzard statements H315 Causes skiņ irritation,	
H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray	
P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves / eye protection / face protection. P305+P351+P388 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
$P_{3}U4\pm P_{3}4U$ IF INFIALED. Remove person to tresp air and keep componable for preatmind	
P312 Call a POISON CENTER/doctor if you feel unwell. P321 Specific treatment (see on this label). P332+P313 If skin irritation occurs: Get medical advice/attention.	
P405 Store locked up	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification D2B - Toxic material causing other toxic effects	
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Classification system HMIS ratings (scale 0-4)	
(Hazardouš Materials Identification System)	
HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1	
REACTIVITY 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: 979-88-4 Bicinchoninic acid, disodium salt	
Concentration: <100%	
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.	(Contd. on page 2)
	USA -

Product name: Bicinchoninic acid, disodium salt

(Contd. of page 1) 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 Information for doctor Most important symptoms and effects, both acute and delayed Causes skin irritation. Causes serious eye irritation. 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: It this product is involved in a fire, the Carbon monoxide and carbon dioxide Sodium oxide Nitrogen oxides (NOx) 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 Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information. Protective Action Criteria for Chemicalo Protective Action Criteria for Chemicals **PAC-1:** Substance is not listed. **PAC-2:** Substance is not listed. PAC-3: Substance is not listed 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Exposure controls
Personal protective equipment
General protective and hygienic measures
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Remove all solied and contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Maintain an ergonomically appropriate working environment.
Breathing equipment: Use suitable respirator when high concentrations are present.
Recommended filter device for short term use:
Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if airpurifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.
Protection of hands:
Impervious gloves Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of gloves native rabber, NDA Penetration time of glove material (in minutes) 480 Glove thickness: 0.11 mm Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.

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9 Physical and chemical propertie	95	
Information on basic physical and c General Information Appearance: Form: Odor: Odor: Odor threshold:	hemical properties Powder or chunks Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined Not determined Not determined Not determined Not determined.	
Danger of explosion: Explosion limits: Lower:	Not determined. Not determined	
Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable.	
Water: Partition coefficient (n-octanol/water Viscosity:	·	
dynamic: kinematic: Other information	Not applicable. Not applicable. No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recon Thermal decomposition / conditions Possibility of hazardous reactions R Conditions to avoid No further releva Incompatible materials: Oxidizing age Hazardous decomposition products Carbon monoxide and carbon dioxide Sodium oxide Nitrogen oxides	nt information available.	
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for Skin irritation or corrosion: Causes s Eye irritation or corrosion: May caus Sensitization: No sensitizing effects k Germ cell mutagenicity: No effects k	skin irritation. e irritation nown.	

Sensitization: No sensitizing enects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

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 material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. 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.

13 Disposal considerations

Waste treatment methods

Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

USA (Contd. on page 4) Product name: Bicinchoninic acid, disodium salt

(Contd. of page 3)

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14 Transport information	
UN-Number DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name	
DOT, ADR, ADN, IMDG, IATA	Not applicable
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA	
Class	Not applicable
Packing group DOT, ADR, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of MARPOL73	/78 and the IBC Code Not applicable.
Transport/Additional information: DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	Not applicable
15 Regulatory information Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled Hazard pictograms GHS07	o n specific for the substance or mixture d in accordance with 29 CFR 1910 (OSHA HCS)
P403+P233 Store in a well-ventilated place. Keep of P501 Dispose of contents/container in accorn National regulations All components of this product are listed in the U.S. Enviro All components of this product are listed on the Canadian SARA Section 313 (specific toxic chemical listings) Su California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance Prop 65 - Developmental toxicity, Substance is not listed Prop 65 - Developmental toxicity, female Substance is not Information about limitation of use: For use only by tec Other regulations, limitations and prohibitive regulatio Substance of Very High Concern (SVHC) according to	n / face protection. for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. air and keep comfortable for breathing. feel unwell. lvice/attention. container tightly closed. dance with local/regional/national/international regulations. onmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. Domestic Substances List (DSL). ubstance is not listed. d. not listed. d. not listed. bilisted. bilisted. binically qualified individuals. ons on the REACH Regulations (EC) No. 1907/2006. Substance is not listed. and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
information to ensure proper use and protect the health ar conformance with this Safety Data Sheet, or in combinatic Department issuing SDS: Global Marketing Department Date of preparation/Revision: Print date, revision date a	Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) v)