

Safety Data Sheet per OSHA HazCom 2012

Keviewed of	n 03/23/2006
1 Identification	
Product identifier	
Product name: meso-2,3-Dibromosuccinic acid	
<b>Stock number:</b> B24382, L04660 <b>CAS Number:</b> 608-36-6	
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.	
30 Bond Street Ward Hill, MA 01835-8099	I
Tel: 800-343-0660 Fax: 800-322-4757	I
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)	
GHS05 Corrosion	
$\checkmark$	
Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eve Dam. 1 H318 Causes serious eve damage.	
Eye Dam. 1 H318 Causes serious eye damage. 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	
GHS05	
Signal word Danger Hazard statements	
H314 Causes severe skin burns and eye damage.	
Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray.	
P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
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 E - Corrosive material	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 2 Health (acute effects) = 2	
FIRE 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:	
608-36-6 meso-2,3-Dibromosuccinic acid	
4 First-aid measures	
Description of first aid measures	
General information Immediately remove any clothing soiled by the product. 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. <b>After eye contact</b> Rinse opened eye for several minutes under running water. Then consult a doctor.	
After swallowing Seek medical treatment.	and on page 2)
	ntd. on page 2) USA

## Product name: meso-2,3-Dibromosuccinic acid

Information for doctor

Most important symptoms and effects, both acute and delayed Causes severe skin burns.

Causes serious eve damage Indication of any immediate medical attention and special treatment needed No further relevant information available.

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: Carbon 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 permits. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. 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. 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. Store away from strong bases. 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: Not required. Additional information: No data 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 soiled 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. Protection of hands: Impervious gloves The selection of suitable 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. Eye protection: Tightly sealed goggles Full face protection Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: White Not determined. Odor. Odor threshold: pH-value: Not applicable.

(Contd. of page 1)

(Contd. on page 3)

## Product name: meso-2 3-Dibromosuccinic acid

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oduct name: meso-2,3-Dibromosu	
	ccinic acid
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Boiling point/Boiling range:	Not determined
Sublimation temperature / start:	Not determined
Flash point: Flammability (solid, gaseous)	Not applicable Not determined.
anition temperature:	Not determined
Decomposition temperature:	Not determined
Auto igniting:	Not determined.
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.
Lower:	Not determined
Upper: Vapor pressure:	Not determined Not applicable.
Density:	Not applicable. Not determined
Relative density Vapor density	Not determined. Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with Water:	Not determined
Partition coefficient (n-octanol/water):	
Viscosity: dynamic:	Not applicable.
kinematic:	Not applicable.
Other information	No further relevant information available.
Stability and reactivity	
Reactivity No information known. Chemical stability Stable under recomm	needed storage conditions
Thermal decomposition / conditions t	o 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 Incompatible materials:	momation available.
Oxidizing agents	
Bases Hazardous decomposition products:	
Carbon monoxide and carbon dioxide	
Hydrogen bromide	
Toxicological information	
Information on toxicological effects	
Acute toxicity: Swallowing will lead to a	strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.
LD/LC50 values that are relevant for c	lassification: No data
Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes ser	vere skin burns. ious eve damage.
Sensitization: No sensitizing effects kno	n n n n n n n n n n n n n n n n n n n
Germ cell mutagenicity: No effects kno	wn. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity: No effects know	n.
Specific target organ system toxicity	• repeated exposure: No effects known.
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Specific target organ system toxicity Aspiration hazard: No effects known.	- single exposure: No effects known.
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Safety Data Sheet per OSHA HazCom 2012	Page 4/4 Printing date 11/23/2015 Reviewed on 03/23/2006		
Product name: meso-2,3-Dibromosuccinic acid	Reviewed on 03/23/2006		
Transport hazard class(es) DOT	(Contd. of page 3)		
Class Label Class Label IMDG, IATA	8 Corrosive substances. 8 8 (C4) Corrosive substances 8		
Class Label	8 Corrosive substances.		
Packing group DOT, IMDG, IATA			
Environmental hazards: Special precautions for user Segregation groups	Not applicable. Warning: Corrosive substances Acids		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Coo Transport/Additional information: DOT			
Marine Pollutant (DOT): UN "Model Regulation":	No UN3261, Corrosive solid, acidic, organic, n.o.s. (meso-2,3-Dibromosuccinic acid), 8, III		
Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms GHS05 Signal word Danger Hazard statements Precautionary statements Profit Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial pupposes or in formulations for commercial pupposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. P			
<ul> <li>16 Other information         Employers should use this information only as a supplement to other information information to ensure proper use and protect the health and safety of employed conformance with this Material Safety Data Sheet, or in combination with any of Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms:         ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreemer IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation         IATA: International Air Transport des marchandises (Canada)         LC5: Chemical Abstracts Service (division of the American Chemical Society)         HMIS: Hazardous Materials Information System (USA)         WHMIS: Verylae Hazardous Materials Information System (Canada)         LC50: Lethal concentration, 50 percent         LVP: VP: Persistent and very Bioaccumulative         ACGIH: American Conference of Governmental Industrial Hygienists (USA)         WFM: Compatibular Sterement of Transport (SA)         MTP: National Toxicology Program (USA)         MTP: National Toxicology Program (USA)         MAR: International Agency for Research on Cancer         EPA: Environmental Protection Agency (USA)         EVA: Environmental Protection Agency (USA)         Content Toxicology Program (USA)         MTP: National Toxicology Program (USA)         MAR: International Agency for Research on Cancer         EPA: Environmental Protection Agency (USA)         EPA: Environmental Protection Agency (USA</li></ul>			