

# Safety Data Sheet per OSHA HazCom 2012

Reviewed on 01/09/2015
1 Identification
Product identifier Product name: <b>4-Aminobenzenethiol</b>
Stock number: L04160
CAS Number:
1193-02-8 EC number:
214-763-4 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
30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660
Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com
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
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
GHS07
Acute Tox. 4 H302 Harmful if swallowed. Hazards not otherwise classified Stench
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms
GHS05 GHS07
Signal word Danger Hazard statements
H302 Harmful if swallowed. 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     B     Health (acute effects) = 3       FIRE     D     Flammability = 1
REACTIVITY 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: 1193-02-8 4-Aminobenzenethiol
Identification number(s): EC number: 214-763-4
4 First-aid measures
Description of first aid measures
General information Immediately remove any clothing soiled by the product. (Contd. on page 2)

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### Product name: 4-Aminobenzenethiol

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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 Causes severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
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: Carbon monoxide and carbon dioxide Sulfur oxides (SOX) 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 Environmental precautions: Do not allow product to reach sewage system or any water course. 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 Handle under dry protective gas.         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         Stora guirements to be met by storerooms and receptacles: No special requirements.         Information about storage in one common storage facility:         Store away from air.         Do not store together with acids.         Store away from acid chorides.         Store away from acid anhydrides.         Store away from acid anhydrides.         Store away from acid anhydrides.         Store under dry inert gas.         Turther information about storage conditions:         Store under dry inert gas.         This product is air sensitive.         Keep container tightly sealed.         Store in cool, dry conditions in well sealed containers.         Store in cool, dry conditions in well sealed containers.         Store in cool, dry conditions in well sealed containers.         Store in cool, dry conditions in well sealed containers.         Store in cool, dry conditions in well sealed containers.         Store in cool, dry	
<ul> <li>8 Exposure controls/personal protection         Additional information about design of technical systems: Properly operating chemical tume 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     </li> <li>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 P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to device purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.         Protection of hands:         Impervious gloves         Check protective gloves prior to each use for their proper condition.</li></ul>	ermine if air-
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Product name: 4-Aminobenzenethiol				
The selection of suitable gloves not only Material of gloves Nitrile rubber, NBR Penetration time of glove material (in Glove thickness 0.11 mm Eye protection: Tightly sealed goggles Full face protection Body protection: Protective work clothin		(Contd. of page 2)		
9 Physical and chemical properties				
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	emical properties Crystalline Yellow Stench Not determined.			
pH-value:	Not applicable.			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	37-42 °C (99-108 °F) 156-157 °C (313-315 °F) Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	> 110 °C (> 230 °F) Not determined. Not determined Not determined Not determined.			
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water at 20 °C (68 °F): Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Not determined. Not determined Not applicable. Not determined Not determined. Not determined. Not applicable. Not applicable. Not determined. Not determined. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. No further relevant information available.			

#### 10 Stability and reactivity

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 Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Acids Air Oxidizing agents Acid chlorides Acid anhydrides Chloroformates **Hazardous decomposition products:** Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Nitrogen oxides 11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if swallowed. Harmful if swallowed. Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serves exerning effects of Chemical Substances (RTECS) contains mutation data for this substance. Sensitization: No sensitizing effects known. Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance. 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 - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - toxicity - single exposure: 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.

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Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground water, 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.	(Contd. of page 3) , water course or sewage system.
13 Disposal considerations	
Waste treatment methods Recommendation Consult state, local or national regulations to ensure Uncleaned packagings: Recommendation: Disposal must be made according to official regulation	
14 Transport information	
UN-Number DOT, IMDG, IATA	UN3263
UN proper shipping name	0113205
DOT IMDG, IATA	Corrosive solid, basic, organic, n.o.s. (4-Aminobenzenethiol) CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (4-Aminobenzenethiol)
Transport hazard class(es) DOT	
Class Label	8 Corrosive substances. 8
Class Label IMDG, IATA	8 (C8) Corrosive substances 8
Class Label	8 Corrosive substances. 8
	0
Packing group DOT, IMDG, IATA	
Environmental hazards: Special precautions for user	Not applicable. Warning: Corrosive substances
EMS Number: Segregation groups	F-A,S-B Alkalis
Transport in bulk according to Annex II of MARPOL73/78 and the IB	
Transport/Additional information:	
DOT Marine Pollutant (DOT):	Νο
UN "Model Regulation":	UN3263, Corrosive solid, basic, organic, n.o.s. (4-Aminobenzenethiol), 8, III
15 Regulatory information Safety, health and environmental regulations/legislation specific for GHS label elements The product is classified and labeled in accordance Hazard pictograms GHS05 GHS07 Signal word Danger Hazard statements H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. Precautionary statements	r <b>the substance or mixture</b> e with 29 CFR 1910 (OSHA HCS)
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	(Contd. on page 5)

#### Product name: 4-Aminobenzenethiol

(Contd. of page 4) 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. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the us Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and accords: ADB: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) MDG: 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 Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances LENECS: European Inventory of Existing Commercial Chemical Substances EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (Division of the American Chemical Substances LENECS: European Inventory of Existing Commercial Chemical Substances EINECS: Lethal concentration, 50 percent LESO: Lethal concentration, 50 percent LESO: Lethal concentration, 50 percent CAGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA) MTP: Antonal Toxicology Program (USA) MTP: Antonal Toxicology Program (USA)