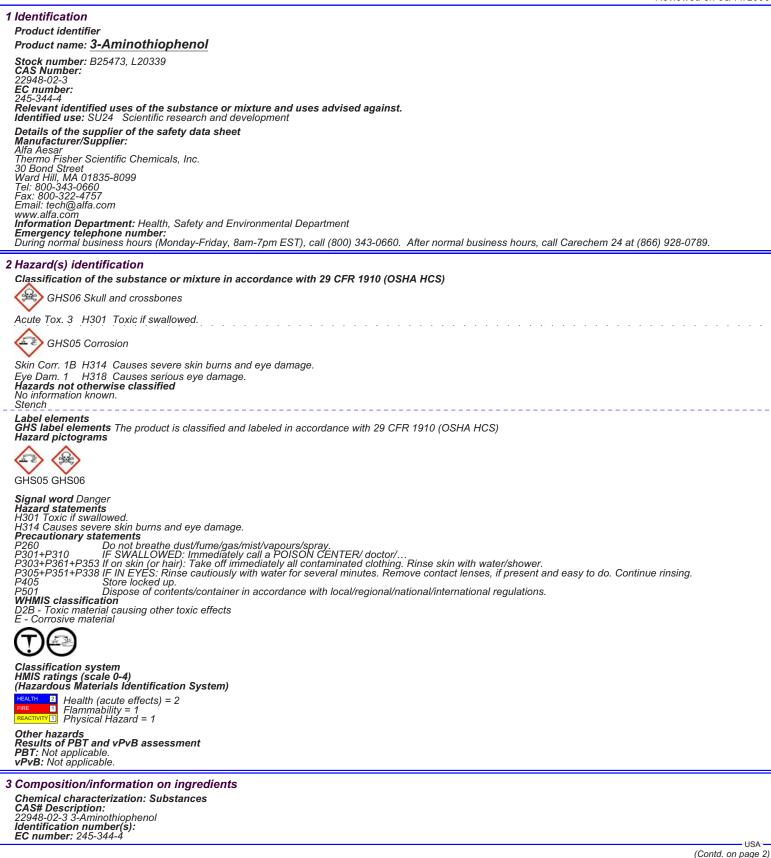


Safety Data Sheet per OSHA HazCom 2012



Product name: 3-Aminothiophenol

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Product name: 3-Aminothiophenol	
	(Contd. of page 1)
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 immédiate 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 Methemoglobinemia	
Causes severe skin burns. Causes serious eye damage.	
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 for Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released:	nm.
Carbon monoxide and carbon dioxide	
Sulfur oxides (SOx) Nitrogen oxides (NOx)	
Nitrogen oxides (NOx) Hydrogen sulfide 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:	
Absorb with liquid-binding material (sand diatomite acid binders universal binders sawdust)	
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.	
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 turne 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.	
The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately.	
Remove all solled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Moiotein on ergenemically oppression working any ironment.	
Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.	
Protection of hands:	
Impervious gloves Check protective gloves prior to each use for their proper condition.	
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. Penetration time of glove material (in minutes) Not determined	
Eye protection: Tightly sealed goggles Full face protection	
Full face protection	(Contd. on page 3)
	USA -

Product name: 3-Aminothiophenol

Body protection: Protective work clothing.

9 Physical and chemical properties

9 Physical and chemical properties	
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor: Odor threshold:	emical properties Liquid Pale yellow Stench Not determined.
pH-value:	Not determined.
Boiling point/Boiling range:	Not determined Not determined Not determined
Ignition temperature: Decomposition temperature:	> 100 °C (> 212 °F) Not determined. Not determined Not determined Not determined.
Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic:	Product does not present an explosion hazard. Not determined Not determined 1.179 g/cm³ (9.339 lbs/gal) Not determined. Not determined.

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 to be avoided. Decomposition 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 Sulfur oxides (SOx) Nitrogen oxides Hydrogen sulfide

11 Toxicological information

Information on toxicological effects Acute toxicity: 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.

LD/LCS0 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serious eye damage. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: 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. Aspiration hazard: No effects known. Subacute to chronic toxicity: Thiols/mercaptans may be skin, eye and respiratory irritants. Inhalation may cause central nervous system effects. Often the strong penetrating odor acts to minimize inhalation exposure. Absorption into the body may lead to the formation of methemoglobin, producing cyanosis, and marked fall in blood pressure leading to collapse, coma and possibly death. Onset may be delayed 2-4 hours or longer. 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:

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

(Contd. of page 2)

(Contd. on page 4) USA

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Product name: 3-Aminothiophenol

Cherr adverse effects No further relevant information available. (Control of page 13 Disposal considerations Presentmentation Considerations Mean mentation Considerations Presentmentation Considerations Mean mentation Considerations Presentmentation Considerations Mean mentation Consideration Consideration Consideration Control on International regulations Presentmentation Consideration Mean mentation Consideration Consideration Consideration Control on International Control on Internation UN3207 Mean mentation Consideration Constitution Consideration Consideratio Constitution Constitution Constitution Const	Other adverse effects No further relevant information available. (Cont of Constitution) 13 Disposal considerations Whete instanting the mode according to official regulations. 14 Disposal considerations (Links and Constitution) Whete instanting the mode according to official regulations. (Links and Constitution) 17 Transport Instanting the mode according to official regulations. (Links and Constitution) UM-Mumber (Links and Constitution) (Constitution) UM-Mumber (Constitution) (Constitution) (Constitution) UMOC, LITA (Links and Constitution) (Constitution) (Constitution) (Constitution) UMOC, LITA (Links and Constitution) (Constitution) (Constitution) (Constitution) (Constitution) UMOC, LITA (Links and Constitution) (Constitution) (Constitu		Reviewed on 08/11/2006
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Product name: 3-Aminothiophenol

(Contd. of page 4)

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USA

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 use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: ADR: 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 CAS: Chemical Abstracts Service (division of the American Chemical Substances LCSO: Lethal concentration, 50 percent LDSO: Lethal concentration, 60 percent LDSO: Lethal dose, 50 percent LDSO: Lethal dose, 50 percent LDSO: Comparitonial Asteriate and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSH: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: National Toxicology Program (USA)