2,4-Diaminoanisole sulfate (cas 39156-41-7) MSDS

MSDS : 4-Methoxy-M-Phenylenediamine Sulfate Hydrate, 98%
CAS : 39156-41-7
SYNONYMS : 2,4-Diaminoanisole; 1,3-Diamino-4-Methoxybenzene Sulphate; P-Methoxy-M-Phenylenediamine Sulphate.

Catalog of Chemical Suppliers, Buyers, Custom Synthesis Companies And Equipment Manufacturers
[4-Methoxy-M-Phenylenediamine Sulfate Hydrate, 98% 39156-41-7 ]

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

+-----------------+--------------------------------------+----------+-----------+
<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>%</th>
<th>EINECS#</th>
</tr>
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<tr>
<td>39156-41-7</td>
<td>4-Methoxy-M-Phenylenediamine Sulfate</td>
<td>98</td>
<td>254-323-9</td>
</tr>
</tbody>
</table>
+-----------------+--------------------------------------+----------+-----------+

Hazard Symbols: T
Risk Phrases: 23/24 33 40

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW
Toxic by inhalation and in contact with skin. Danger of cumulative effects. Limited evidence of a carcinogenic effect. Cancer suspect agent. The toxicological properties of this material have not been fully investigated.

Potential Health Effects
Eye:
May cause eye irritation.

Skin:
May cause skin irritation.

Ingestion:
May cause irritation of the digestive tract. May cause cardiac disturbances. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, and death. The toxicological properties of this substance have not been fully investigated. May cause central nervous system depression.

Inhalation:
May cause respiratory tract irritation. May cause methemoglobinemia, cyanosis (bluish discoloration of skin due to deficient oxygenation of the blood), convulsions, tachycardia, dyspnea (labored breathing), and death. The toxicological properties of this substance have not been fully investigated. May cause cardiac abnormalities. Inhalation at high concentrations may cause CNS depression and asphyxiation.

Chronic:
May cause methemoglobinemia, which is characterized by chocolate-brown colored blood, headache, weakness, dizziness, breath shortness, cyanosis (bluish skin due to deficient oxygenation of blood), rapid heart rate, unconsciousness and possible death.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:
Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:
Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:
Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and
drink 2-4 cupfuls of milk or water.

Inhalation:
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:
For methemoglobinemia, administer oxygen alone or with Methylene Blue depending on the methemoglobin concentration in the blood.

Antidote:
Methylene blue, alone or in combination with oxygen is indicated as a treatment in nitrite induced methemoglobinemia.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

General Information:
As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Runoff from fire control or dilution water may cause pollution.

Extinguishing Media:
Use agent most appropriate to extinguish fire.

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:
Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:
Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:
Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits
CAS# 39156-41-7:

Personal Protective Equipment

Eyes:
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA’s eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:
Wear appropriate protective gloves to prevent skin exposure.

Clothing:
Wear appropriate protective clothing to prevent skin exposure.

Respirators:
A respiratory protection program that meets OSHA’s 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****
Physical State: Powder
Color: brown-gray
Odor: Not available.
pH: Not available.
Vapor Pressure: Not available.
Viscosity: Not available.
Boiling Point: Not available.
Freezing/Melting Point: 189.00 - 192.00 deg C
Autoignition Temperature: Not available.
Flash Point: Not available.
Explosion Limits, lower: Not available.
Explosion Limits, upper: Not available.
Decomposition Temperature: Not available.
Solubility in water: Not available.
Specific Gravity/Density: Not available.
Molecular Formula: C7H10N2O.H2SO4.xH2O
Molecular Weight: 236.26

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:
Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to Avoid:
Incompatible materials, dust generation, excess heat, strong oxidants.
Incompatibilities with Other Materials:
Oxidizing agents.
Hazardous Decomposition Products:
Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, hydrogen sulfide, sulfur oxides (SOx), including sulfur oxide and sulfur dioxide.
Hazardous Polymerization: Has not been reported

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:
CAS# 39156-41-7: ST2705000
LD50/LC50:
CAS# 39156-41-7: Oral, rat: LD50 = >4 gm/kg.
Carcinogenicity:
4-Methoxy-M-Phenylenediamine Sulfate Hydrate -
California: carcinogen, initial date 1/1/88
NTP: Suspect carcinogen
Other:
See actual entry in RTECS for complete information.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.

**** SECTION 14 - TRANSPORT INFORMATION ****

IATA
Shipping Name: DYE, SOLID, TOXIC, N.O.S.*
Hazard Class: 6.1
UN Number: 3143
Packing Group: II

IMO
Shipping Name: DYE, SOLID, TOXIC, N.O.S.
Hazard Class: 6.1
UN Number: 3143
Packing Group: II

RID/AD Shipping Name: DYE, SOLID, TOXIC, N.O.S.
Hazard Class: 6.1
UN Number: 3143
Packing group: II

**** SECTION 15 - REGULATORY INFORMATION ****
European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: T
Risk Phrases:
R 23/24 Toxic by inhalation and in contact with skin.
R 33 Danger of cumulative effects.
R 40 Limited evidence of a carcinogenic effect.
Safety Phrases:
S 24/25 Avoid contact with skin and eyes.
WGK (Water Danger/Protection)
CAS# 39156-41-7: No information available.
Canada
CAS# 39156-41-7 is listed on Canada's DSL List.
CAS# 39156-41-7 is listed on Canada's Ingredient Disclosure List.
US FEDERAL
TSCA
CAS# 39156-41-7 is listed on the TSCA inventory.

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 9/02/1997 Revision #4 Date: 3/18/2003

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if the company has been advised of the possibility of such damages.