Material Safety Data Sheet
4,6-Dihydroxy-2-Mercaptopyrimidine, 98%

MSDS# 76718

Section 1 - Chemical Product and Company Identification

MSDS Name: 4,6-Dihydroxy-2-Mercaptopyrimidine, 98%
Catalog Numbers: AC114960000, AC114960050, AC114961000, AC114965000
Synonyms: 2-Thiobarbituric acid; 2-Mercaptobarbituric Acid

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaal 3a
2440 Geel, Belgium

Company Identification: (USA)
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 504-17-6
Chemical Name: 4,6-Dihydroxy-2-Mercaptopyrimidine
%: 98%
EINECS#: 207-985-8

Hazard Symbols: XI
Risk Phrases: 36

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Caution! Air sensitive. The toxicological properties of this material have not been fully investigated. Stench. Target Organs: None known.
Potential Health Effects
Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: Expected to be a low ingestion hazard. May cause nausea and vomiting.
Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

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 immediately.

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

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an
unconscious person. Get medical aid.

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:

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.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

<table>
<thead>
<tr>
<th>Autoignition</th>
<th>Not available</th>
</tr>
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<tbody>
<tr>
<td>Temperature:</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion Limits: Lower:</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion Limits: Upper:</td>
<td>Not available</td>
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</tbody>
</table>

NFPA Rating: health: 2; flammability: 0; instability: 0;

Section 6 - Accidental Release Measures

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

Spills/Leaks: Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Avoid contact with eyes, skin, and clothing.
Avoid ingestion and inhalation.

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

Section 8 - Exposure Controls, Personal Protection

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA - Final PELs</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,6-Dihydroxy-2-Mercaptopyrimidine</td>
<td>none listed</td>
<td>none listed</td>
<td>none listed</td>
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<tr>
<td>captopyrimidine</td>
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</tbody>
</table>

OSHA Vacated PELs: 4,6-Dihydroxy-2-Mercaptopyrimidine: None listed

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

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.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a
Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if
irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: slightly yellow

Odor: Stench
Odor: Stench
pH: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Evaporation Rate: Not available
Viscosity: Not available
Boiling Point: Not available
Freezing/Melting Point: 245 deg C dec
Decomposition Temperature: Not available
Solubility in water: Soluble
Specific Gravity/Density:
Molecular Formula: C4H4N2O2S
Molecular Weight: 144.15

Section 10 - Stability and Reactivity
Chemical Stability: Not available
Conditions to Avoid: Incompatible materials, exposure to air.
Incompatibilities with Other Materials: Not available
Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, oxides of sulfur, carbon dioxide.
Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information
RTECS#: CAS# 504-17-6: CQ7700000
RTECS:
LD50/LC50:
Oral, rat: LD50 = >5 gm/kg;

Carcinogenicity: 4,6-Dihydroxy-2-Mercaptopymidine - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information
Not available

Section 13 - Disposal Considerations
Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information
US DOT
Shipping Name: Not regulated as a hazardous material
Hazard Class:
UN Number:
Packing Group:
Canada TDG
Shipping Name: Not available
Hazard Class:
UN Number:
Packing Group:

Section 15 - Regulatory Information
European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XI
Risk Phrases:
R 36 Irritating to eyes.
Safety Phrases:
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 39 Wear eye/face protection.

WGK (Water Danger/Protection)

CAS# 504-17-6: Not available

Canada

CAS# 504-17-6 is listed on Canada's DSL List

Canadian WHMIS Classifications: Not available

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 504-17-6 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 504-17-6 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date: 3/20/1998
Revision #5 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 event 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 howsoever arising, even if the company has been advised of the possibility of such damages.

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