

Printing date 09/26/2007

Reviewed on 09/26/2007

1 Identification of substance:

- **Product name:** AHMC (AMMC Metabolite Standard)
- **Catalog number:** 451701
- **Manufacturer/Supplier:**
BD Biosciences - Discovery Labware
6 Henshaw Street
Woburn, MA 01801
Tel: 877.232.8995
- **Information department:** Technical Services
- **Emergency information:**
In case of a chemical emergency, spill, fire, exposure, or accident contact BD Discovery Labware at 800.334.5229, or ChemTrec at 800.424.9300.

2 Composition/Data on components:

- **Chemical characterization:**
- **CAS No. Description:**
15776-59-7 3-[2-(diethylamino)ethyl]-7-hydroxy-4-methylcoumarin hydrochloride (AHMC) (C₁₆H₂₂NO₃Cl)
- **Chemical characterization**
- **Dangerous components:**
3-[2-(diethylamino)ethyl]-7-hydroxy-4-methylcoumarin hydrochloride 100%
- **Additional information** Biological Activity: unknown

3 Hazards identification

- **Hazard description:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment**
R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- **NFPA ratings (scale 0-4)**

Health = 2
Fire = 0
Reactivity = 0**4 First aid measures**

- **General information**
Symptoms of poisoning may even occur after several hours; therefore provide medical observation for at least 48 hours after the accident.
- **After inhalation**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek medical advice.
In case of unconsciousness place patient on side position for transportation.

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- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- **After swallowing** Immediately call a doctor.
- **Information for doctor** Show the product label or this MSDS.

5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** Use respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Use respiratory protective device.
- **Measures for environmental protection:** Wipe up with damp sponge or mop.
- **Measures for cleaning/collecting:**
Clean the affected area carefully; suitable cleaners are:
warm water and cleansing agent
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Additional information:**
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**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of dust.
- **Information about protection against explosions and fires:** No special measures required.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** 15 - 30 C
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:**
Use only in a chemical fume hood. Safety shower and eye bath.
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.

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- **Personal Protective Equipment**
- **General protective and hygienic measures**
 Keep away from foodstuffs, beverages and feed.
 Wash hands before breaks and at the end of work.
 Avoid contact with the eyes and skin.
- **Breathing equipment:**
 In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.
- **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing (lab coat).

9 Physical and chemical properties:

· General Information

Form:	Solid.
Color:	White
Odor:	Characteristic

· Change in condition

Melting point/Melting range: Not determined
Boiling point/Boiling range: Not determined

- | | |
|---|---|
| · Flash point: | Not applicable |
| · Auto igniting: | Product is not self igniting. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Vapor pressure: | Not applicable |
| · Density: | Not determined |
| · Solubility in / Miscibility with | |
| Water: | Insoluble |
| · pH-value: | Not applicable |
| · Formula Weight | 311.81 |
| · Organic solvents: | 0.0 % |

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Materials to be avoided:** Incompatible material: strong oxidizers.
- **Dangerous reactions** No dangerous reactions known

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· Dangerous products of decomposition: No dangerous decomposition products known.**11 Toxicological information**

- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Harmful

12 Ecological information:

- **Ecotoxicological effects:**
- **Other information:**
The ecological effects have not been thoroughly investigated, but currently none have been identified.
- **General notes:** Generally not hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of with solid waste.
Dispose of material in accordance with federal (40 CFR 261), state and local requirements.
This product is not considered a RCRA hazardous waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to state and federal regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

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· Transport/Additional information:

If a dashed line appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation. However, if a Hazard Class Number is listed the product is regulated.

15 Regulations**· SARA Section 355 (extremely hazardous substances)**

Substance is not listed.

· SARA Section 313 (specific toxic chemical listings)

Substance is not listed.

· TSCA (Toxic Substances Control Act)

Substance is not listed.

· California Proposition 65 - Chemicals known to cause cancer

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenicity categories**· IARC (International Agency for Research on Cancer)**

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· Product related hazard information:

The product has been classified and marked in accordance with regulations on hazardous materials.

· Hazard symbols:

Xn Harmful

· Hazard-determining components of labeling:3-[2-(diethylamino)ethyl]-7-hydroxy-4-methylcoumarin hydrochloride (AHMC) (C₁₆H₂₂NO₃Cl)**· Risk phrases:**

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

· Safety phrases:

7 Keep container tightly closed.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36 Wear suitable protective clothing.

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Material Safety Data Sheet
acc. to ISO/DIS 11014

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- **National regulations**
- **Water hazard class:** Generally not hazardous for water.

16 Other information:

Use of Product:

- synthetic chemical for research only
- analytical standard
- must be handled by suitably qualified personnel

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- **Department issuing MSDS:** Safety and Environment Department
- **Contact:** Technical Service Representative

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