

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Type** Stain - 4001  
**Product Name** Trichrome Stain  
**Catalogue Number(s)** 400101 AND 400112  
**Manufacturer, importer, supplier** Meridian Bioscience, Inc. 3471 River Hills Drive, Cincinnati, OH 45244 U.S.A.  
 (513) 271-3700  
**EMERGENCY TELEPHONE NUMBER** CHEMTREC: 1-800-424-9300

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS	Chemical Name	% Weight	ACGIH*	ACGIH*	OSHA*
64-19-7	Acetic acid	1.02	15 ppm STEL	10 ppm TWA	10 ppm TWA; 25 mg/m3 TWA
4197-07-3	Disodium 4,5-dihydroxy-3-phenylazonaphthalene-2,7-disulphonate	0.59	N/A	N/A	N/A
12067-99-1	Tungsten hydroxide oxide phosphate	0.68	10 mg/m3 STEL	5 mg/m3 TWA	N/A
2353-45-9	Fast green fcf	0.15	N/A	N/A	N/A
5141-20-8	Light green SF	0.15	N/A	N/A	N/A

\* ACGIH - Occupational Exposure Limits - STELs

\* ACGIH - Occupational Exposure Limits - TWAs

\* OSHA - Final PELs - Time Weighted Averages (TWAs)

## 3. HAZARDS IDENTIFICATION

### Emergency Overview:

- The product contains no substances which at their given concentration, are considered to be hazardous to health

<b>Eye contact</b>	Contact with eyes can cause irritation.
<b>Skin contact</b>	Exposure can cause skin irritation.
<b>Inhalation:</b>	Avoid breathing vapors or mists.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>General advice</b>	As with any chemical, use caution when handling.
<b>Properties affecting health</b>	Irritating to eyes
<b>Principle Routes of Exposure</b>	Absorption, inhalation, and ingestion

## 4. FIRST AID MEASURES

<b>General advice</b>	<ul style="list-style-type: none"> <li>Show this safety data sheet to the doctor in attendance</li> <li>Avoid contact with eyes</li> </ul>
<b>Skin contact</b>	<ul style="list-style-type: none"> <li>Wash off immediately with soap and plenty of water</li> </ul>
<b>Eye contact</b>	<ul style="list-style-type: none"> <li>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes</li> <li>If eye irritation persists, seek medical attention</li> </ul>
<b>Inhalation:</b>	<ul style="list-style-type: none"> <li>Move to fresh air.</li> <li>If exposure symptoms persist, seek medical attention.</li> </ul>
<b>Ingestion:</b>	<ul style="list-style-type: none"> <li>Do not swallow. Rinse mouth with water and afterwards drink plenty of water.</li> </ul>

**MATERIAL SAFETY DATA SHEET Trichrome Stain - 4001**

	<ul style="list-style-type: none"> <li>Consult a physician if necessary</li> </ul>
<b>Notes to physician</b>	<ul style="list-style-type: none"> <li>Treat symptomatically</li> </ul>

**5. FIRE-FIGHTING MEASURES**

<b>Flash point</b>	N/D
<b>Suitable extinguishing media</b>	<ul style="list-style-type: none"> <li>carbon dioxide (CO2)</li> <li>alcohol-resistant foam</li> <li>dry chemical</li> <li>water spray</li> </ul>
<b>Extinguishing media which must not be used for safety reasons</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>
<b>Special protective equipment for firefighters</b>	<ul style="list-style-type: none"> <li>As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear</li> </ul>
<b>Specific methods</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	<ul style="list-style-type: none"> <li>Ensure adequate ventilation, especially in confined areas</li> </ul>
<b>Environmental precautions</b>	<ul style="list-style-type: none"> <li>No special environmental precautions required</li> </ul>
<b>Methods for cleaning up</b>	<ul style="list-style-type: none"> <li>Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container</li> <li>After cleaning, flush away traces with water</li> </ul>

**7. HANDLING AND STORAGE****Handling**

<b>Safe handling advice</b>	<ul style="list-style-type: none"> <li>Do not breathe vapours or spray mist. Ensure that ventilation is adequate before using this product.</li> </ul>
-----------------------------	--

**Storage**

<b>Technical measures/Precautions</b>	<ul style="list-style-type: none"> <li>Store in a tightly closed container. Store in a cool, dry, well ventilated area away from incompatible substances.</li> </ul>
<b>Incompatible products</b>	<ul style="list-style-type: none"> <li>Avoid strong bases</li> </ul>

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Engineering measures</b>	<ul style="list-style-type: none"> <li>Ensure adequate ventilation, especially in confined areas</li> </ul>
<b>Personal protective equipment</b>	
<b>Hand protection</b>	<ul style="list-style-type: none"> <li>Wear appropriate protective gloves</li> </ul>
<b>Eye protection</b>	<ul style="list-style-type: none"> <li>Wear tightly fitting safety goggles or safety glasses with side-shields</li> </ul>
<b>Respiratory protection</b>	<ul style="list-style-type: none"> <li>Avoid inhalation of vapors.</li> </ul>
<b>Skin and body protection</b>	<ul style="list-style-type: none"> <li>Light weight protective clothing to protect exposed skin</li> </ul>
<b>Hygiene measures</b>	<ul style="list-style-type: none"> <li>Handle in accordance with good industrial hygiene and safety practice</li> <li>Keep away from food, drink and animal feeding stuffs</li> </ul>
<b>Environmental exposure controls</b>	<ul style="list-style-type: none"> <li>No information available</li> </ul>

**9. PHYSICAL AND CHEMICAL PROPERTIES****General Information**

<b>Form</b>	Liquid.
<b>Odor</b>	Mild Acetic Acid.
<b>Color</b>	Purplish/black.

# MATERIAL SAFETY DATA SHEET Trichrome Stain - 4001

## Important Health Safety and Environmental Information

pH	N/D
Boiling point/range	N/D
Flash point	N/D
Water solubility	No information available.

## 10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to avoid	Extremes of temperature and direct sunlight
Materials to avoid	Incompatible with strong bases.
Hazardous decomposition products	None under normal use.
Polymerization	Polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

### Component Information

### Product Information

LD50/dermal/rat =	No information available
LD50/oral/rat =	No information available
Chronic toxicity	No information available.
carcinogenic effects	No information available.
mutagenic effects	No information available.
Reproductive toxicity	No information available.
Target Organ Effects	No information available.

## 12. ECOLOGICAL INFORMATION

### Component Information

CAS	Chemical Name	% Weight	ACGIH*
64-19-7	Acetic acid	1.02	10 ppm TWA
4197-07-3	Disodium 4,5-dihydroxy-3-phenylazonaphthalene-2,7-disulphonate	0.59	N/A
12067-99-1	Tungsten hydroxide oxide phosphate	0.68	5 mg/m3 TWA
2353-45-9	Fast green fcf	0.15	N/A
5141-20-8	Light green SF	0.15	N/A

\* ACGIH - Occupational Exposure Limits - TWA's

Ecotoxicity effects	No information available
---------------------	--------------------------

## 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products	In accordance with local and national regulations.
Contaminated packaging	Empty containers should be rinsed and disposed of as appropriate for glass and plastic containers.
Further information	

## 14. TRANSPORT INFORMATION

**MATERIAL SAFETY DATA SHEET Trichrome Stain - 4001****DOT**

<b>UN-No</b>	Not required
<b>Hazard Class</b>	Not applicable
<b>Proper shipping name</b>	
<b>Packing group</b>	Not applicable
<b>Subsidiary Risk</b>	Not applicable
<b>Description</b>	Trichrome Stain

**IATA**

<b>UN-No</b>	Not required
<b>Hazard Class</b>	Not applicable
<b>Proper shipping name</b>	
<b>Packing group</b>	Not applicable
<b>Subsidiary Risk</b>	Not applicable
<b>Description</b>	Trichrome Stain

**15. REGULATORY INFORMATION****U.S. Inventories**

<b>CAS</b>	<b>Chemical Name</b>	<b>% Weight</b>	<b>TSCA*</b>
64-19-7	Acetic acid	1.02	N/A
4197-07-3	Disodium 4,5-dihydroxy-3-phenylazonaphthalene-2,7-disulphonate	0.59	N/A
12067-99-1	Tungsten hydroxide oxide phosphate	0.68	N/A
2353-45-9	Fast green fcf	0.15	N/A
5141-20-8	Light green SF	0.15	N/A

\* TSCA - (Toxic Substances Control Act) - Export Notification

**International Inventories**

<b>CAS</b>	<b>Chemical Name</b>	<b>% Weight</b>	<b>EINECS*</b>	<b>DSL - Canada*</b>	<b>ENCS*</b>
64-19-7	Acetic acid	1.02	200-580-7	Present	2-688
4197-07-3	Disodium 4,5-dihydroxy-3-phenylazonaphthalene-2,7-disulphonate	0.59	224-085-0	N/A	N/A
12067-99-1	Tungsten hydroxide oxide phosphate	0.68	235-087-6	Present	1-1097
2353-45-9	Fast green fcf	0.15	219-091-5	Present	5-5228
5141-20-8	Light green SF	0.15	225-906-5	Present	5-4347; 5-4374

\* EINECS - EINECS

\* DSL - Canada - Domestic Substances List (DSL)

\* ENCS - Japan Existing and New Chemical Substances (ENCS)

**16. OTHER INFORMATION**

PREPARED ON

02/05/2009

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

End of Safety Data Sheet