

This SDS complies with the US OSHA HCS 2012.

1. Product and Company Identification

Product Code: 0003125
Product Name: Wheatley's Trichrome Stain
Company Name: CalibreScientific US, Inc. **Phone Number:** 1 (360)260-2779
 1311 SE Cardinal Ct Suite 170
 Vancouver, WA 98683
Web site address: Alphatecsystems.com
Email address: Regulatory@calibrescientific.com
Emergency Contact: INFOTRAC
 International 00-1- (352)323-3500
Information: North America 1 (800)535-5053
Intended Use: For Laboratory Use Only
Product List Wheatley's Trichrome Stain, Product Codes: 0003351, 0004627.

2. Hazards Identification

Flammable Liquids, Category 3
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2



GHS Signal Word: **Warning**

GHS Hazard Phrases: H226 - Flammable liquid and vapor.
 H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.

GHS Precautionary Phrases: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P233 - Keep container tightly closed.
 P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P264 - Wash hands thoroughly after handling.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases: P302+352 - IF ON SKIN: Wash with plenty of soap and water.
 P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332+313 - If skin irritation occurs, get medical advice/attention.
 P337+313 - If eye irritation persists, get medical advice/attention.
 P362 - Take off contaminated clothing and wash before re-use.

GHS Storage and Disposal Phrases: P403+235 - Store in cool/well-ventilated place.
 P501 - Dispose of contents/container to safe area according to state and local guidelines.

Potential Health Effects (Acute and Chronic):	Chronic: Chronic exposure to acetic acid may cause erosion of dental enamel, bronchitis, eye irritation, darkening of the skin, and chronic inflammation of the respiratory tract. Acetic acid can cause occupational asthma. One case of a delayed asthmatic response to glacial acetic acid has been reported in a person with bronchial asthma. Skin sensitization to acetic acid is rare, but has occurred.
Inhalation:	Effects may be delayed. Causes chemical burns to the respiratory tract. Exposure may lead to bronchitis, pharyngitis, and dental erosion. May be absorbed through the lungs.
Skin Contact:	May cause skin irritation. May be harmful if absorbed through the skin. Contact with the skin may cause blackening and hyperkeratosis of the skin of the hands.
Eye Contact:	May cause eye irritation.
Ingestion:	May cause severe and permanent damage to the digestive tract. May cause polyuria, oliguria (excretion of a diminished amount of urine in relation to the fluid intake) and anuria (complete suppression of urination). May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Rapidly absorbed from the gastrointestinal tract.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
64-19-7	Acetic acid {Ethanoic acid, Vinegar}	0.2 -1.0 %
12501-23-4	Phosphotungstic acid hydrate	2950. -6950. PPM
4197-07-3	C.I. Acid Red 29, disodium salt {Disodium 4,5-dihydroxy-3-phenylazonaphthalene-2,7-disulphonate}	1950. -5950. PPM
5141-20-8	Light Green SF {C.I. Acid Green 5; C.I. 42095; Light Green SF Yellowish; Green No.205}	480.0 -1480. PPM
2353-45-9	Fast green FCF {Bis[4-(N-ethyl-N-3-sulfophenylmethyl)aminophenyl]-4-hydroxy-2-sulfophenyl methylum disodium salt}	480.0 -1480. PPM

4. First Aid Measures

Emergency and First Aid Procedures:	
In Case of Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
In Case of Skin Contact:	Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.
In Case of Eye Contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
In Case of Ingestion:	If swallowed, do NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.
Note to Physician:	Persons with pre-existing skin disorders or impaired respiratory or pulmonary function may be at increased risk to the effects of this substance. Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Point:	39.00 C
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	426.00 C
Suitable Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.
Fire Fighting Instructions:	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. Use water spray to keep fire-exposed containers cool. Reacts with most metals to form highly flammable hydrogen gas which can form explosive mixtures with air. Flammable liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas.
Flammable Properties and Hazards:	No data available.
Hazardous Combustion Products:	No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled:	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Wash area with soap and water. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. Use water spray to cool and disperse vapors, protect personnel, and dilute spills to form nonflammable mixtures. Control runoff and isolate discharged material for proper disposal. Spill may be carefully neutralized with soda ash (sodium carbonate).
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7. Handling and Storage

Precautions To Be Taken in Handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Do not get in eyes, on skin, or on clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Discard contaminated shoes. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Keep away from heat, sparks and flame. Do not breathe dust, mist, or vapor. Use corrosion-resistant transfer equipment when dispensing.
Precautions To Be Taken in Storing:	Keep away from heat, sparks and flame. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store near alkaline substances. Acetic acid should be kept above its freezing point of 62°F(17°C) to allow it to be handled as a liquid. It will contract slightly on freezing. Freezing and thawing does not affect product quality.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
64-19-7	Acetic acid {Ethanoic acid, Vinegar}	PEL: 10 ppm	TLV: 10 ppm STEL: 15 ppm	No data.
12501-23-4	Phosphotungstic acid hydrate	No data.	No data.	No data.
4197-07-3	C.I. Acid Red 29, disodium salt {Disodium 4,5-dihydroxy-3-phenylazonaphthalene-2,7-disulphonate}	No data.	No data.	No data.
5141-20-8	Light Green SF {C.I. Acid Green 5;	No data.	No data.	No data.

C.I. 42095; Light Green SF Yellowish;
Green No.205}

2353-45-9

Fast green FCF
{Bis[4-(N-ethyl-N-3-sulfophenylmethyl)aminophenyl]-4-hydroxy-2-sulfophenyl methylum disodium salt}

No data.

No data.

No data.

Respiratory Equipment (Specify Type):

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.

Eye Protection:

Wear chemical splash goggles and face shield.

Protective Gloves:

Wear appropriate gloves to prevent skin exposure.

Other Protective Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.):

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use a corrosion-resistant ventilation system.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Purple.
acetic odor.

pH: No data.

Melting Point: No data.

Boiling Point: No data. / 0.0 mm Hg

Flash Point: 39.00 C

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: No data. UEL: No data.

Vapor Pressure: No data.

Vapor Density (vs. Air=1): No data.

Specific Gravity (Water=1): 1.00

Solubility in Water: No data.

Saturated Vapor Concentration: No data.

Octanol/Water Partition Coefficient: No data.

Autoignition Pt: 426.00 C

Decomposition Temperature: No data.

Viscosity: No data.

10. Stability and Reactivity

Stability:	Unstable [<input type="checkbox"/>] Stable [<input checked="" type="checkbox"/>]
Conditions To Avoid - Instability:	ignition sources, Excess heat, freezing temperatures, confined spaces, Note: Use great caution in mixing with water due to heat evolution that causes explosive spattering. Always add the acid to water.
Incompatibility - Materials To Avoid:	Metals. Strong oxidizing agents, Bases, chlorine trifluoride, Nitric acid, acetaldehyde, chlorosulfonic acid, oleum, bromine pentafluoride, Perchloric acid, potassium tert-butoxide, ethyleneimine, 2-aminoethanol, ethylene diamine, phosphorus trichloride, phosphorus isocyanate.
Hazardous Decomposition or Byproducts:	Carbon monoxide, irritating and toxic fumes and gases.
Possibility of Hazardous Reactions:	Will occur [<input type="checkbox"/>] Will not occur [<input checked="" type="checkbox"/>]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. Toxicological Information

Toxicological Information:	No data available.		
Carcinogenicity/Other Information:	CAS# 64-19-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.		
Carcinogenicity:	NTP? No	IARC Monographs? No	OSHA Regulated? No

12. Ecological Information

General Ecological Information:	<p>Ecotoxicity: Evaporation from dry surfaces is likely to occur. When spilled on soil, the liquid will spread on the surface and penetrate into the soil at a rate dependent on the soil type and its water content. Acetic acid shows no potential for biological accumulation or food chain contamination.</p> <p>Environmental: If released to the atmosphere, it is degraded in the vapor-phase by reaction with photochemically produced hydroxyl radicals (estimated typical half-life of 26.7 days). It occurs in atmospheric particulate matter in acetate form and physical removal from air can occur via wet and dry deposition.</p> <p>Physical: Natural waters will neutralize dilute solutions to acetate salts.</p> <p>Other: No information available.</p>
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13. Disposal Considerations

Waste Disposal Method:	<p>Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.</p> <p>RCRA P-Series: None listed.</p> <p>RCRA U-Series: None listed.</p>
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14. Transport Information

GHS Classification:	<p>Flammable Liquids, Category 3 - Warning! Flammable liquid and vapor</p> <p>Skin Corrosion/Irritation, Category 2 - Warning! Causes skin irritation</p> <p>Serious Eye Damage/Eye Irritation, Category 2 - Warning! Causes serious eye irritation</p>
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LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not regulated as a hazardous material.

DOT Hazard Class:

UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not regulated as a hazardous material.

UN Number:

Hazard Class:

TDG Classification:

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not regulated as a hazardous material.

UN Number:

Hazard Class:

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not regulated as a hazardous material.

UN Number:

Packing Group:

Hazard Class:

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
64-19-7	Acetic acid {Ethanoic acid, Vinegar}	No	Yes NA	No
12501-23-4	Phosphotungstic acid hydrate	No	No	No
4197-07-3	C.I. Acid Red 29, disodium salt {Disodium 4,5-dihydroxy-3-phenylazonaphthalene-2,7-disulfonate}	No	No	No
5141-20-8	Light Green SF {C.I. Acid Green 5; C.I. 42095; Light Green SF Yellowish; Green No.205}	No	No	No
2353-45-9	Fast green FCF {Bis[4-(N-ethyl-N-3-sulfophenylmethyl)aminophenyl]-4-hydroxy-2-sulfophenyl methylum disodium salt}	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
64-19-7	Acetic acid {Ethanoic acid, Vinegar}	CA PROP.65: No; MA Oil/HazMat: Yes; NJ EHS: No; PA HSL: Yes - E
12501-23-4	Phosphotungstic acid hydrate	CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; PA HSL: No
4197-07-3	C.I. Acid Red 29, disodium salt {Disodium 4,5-dihydroxy-3-phenylazonaphthalene-2,7-disulfonate}	CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; PA HSL: No
5141-20-8	Light Green SF {C.I. Acid Green 5; C.I. 42095; Light Green SF Yellowish; Green No.205}	CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: Yes - 3140; PA HSL: No
2353-45-9	Fast green FCF {Bis[4-(N-ethyl-N-3-sulfophenylmethyl)aminophenyl]-4-hydroxy-2-sulfophenyl methylum disodium salt}	CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; PA HSL: No

16. Other Information

Revision Date: 03/07/2025 **Previous revision:** 11/29/2018

Preparer Name: A. Frontella

Additional Information About This Product: No data available.

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Company Policy or Disclaimer: Disclaimer

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