

SAFETY DATA SHEET

TRICHROME STAIN SOLUTION

Section 1 - Chemical Product and Company Identification

SDS Name: Trichrome Stain Solution

Catalog Numbers: SO-234

Company Identification: ROWLEY BIOCHEMICAL
10 ELECTRONICS AVENUE
DANVERS, MA 01923

For information, call: 978-739-4883

Emergency Number: 800-424-9300

For CHEMTREC assistance, call: 800-424-9300

Section 2 - Hazards Identification

GHS Classifications

HEALTH HAZARDS

H303-Acute Oral Toxicity: 5

H313-Acute Dermal Toxicity: 5

H333-Acute Inhalation Toxicity: 5

H315-Skin Corrosion/Irritation: 2

H319-Eye damage/Irritation: 2A

H341-Germ Cell Mutagenicity: 2

H361-Reproductive Toxicity: 2

H373-Specific Target Organ Toxicity: 2

PHYSICAL HAZARDS

H290-Corrosive to Metals: 1

ENVIRONMENTAL HAZARDS

Aquatic acute environmental Hazards: 3

Chronic environmental Hazards: Not classified

Pictograms or Hazard symbols and Hazard statement.



Warning: Causes skin irritation. Causes serious eye irritation.



Warning: Suspected of causing genetic defects. Suspected of damaging fertility or the unborn child. May cause damage to organs.



Warning: May be corrosive to metals.

Warning: may be harmful if swallowed. May be harmful in contact with skin. May be harmful if inhaled.

Precautionary Statement

H290

P234-Keep only in original container.

P390-Absorb spillage to prevent material damage.

P406-Store in corrosive resistant container.

H303+H313+H333+H319+H373

P264+P330-Wash thoroughly after handling. Rinse mouth.

P270-Do not eat, drink, or smoke when using this product.

P280-Wear protective gloves.

P301+P312-IF SWALLOWED, INHALED, OR ON SKIN, call a POISON CENTER or physician if you feel unwell.

P260-Do not breathe fume/gas/mist/vapors.

P362-Take off contaminated clothing and wash before reuse.

P337+P313-If eye irritation persists, get medical advice/attention.

P305+P351+P338-If in eyes, rinse cautiously with water for several minutes.

H315

P302+P352-If on skin, wash with plenty of water. Remove contact lenses if present and easy to do so. Continue rinsing.

P332+P313-If skin irritation occurs, get medical advice/attention.

H361+H341

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P308+P313-If exposed or concerned, get medical advice/attention.

P405-Store locked up.

WARNING! **Mutagenic suspect!** Suspected of damaging fertility or the unborn child. May cause damage to organs over prolonged exposure. Skin and eye **irritant**. May be harmful if swallowed or inhaled. May be **corrosive** to metals.

Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
4197-07-3	Chromotrope 2R	0.59 w/v
5141-20-8	Light Green SF Yellowish	0.15 w/v
2353-45-9	Fast Green FCF	0.15 w/v
15312-42-6	Phosphotungstic Acid	0.69 w/v
64-19-7	Glacial Acetic Acid	0.99 v/v
7732-18-5	Water	Balance

Section 4 - First Aid Measures

Eye Exposure: In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Dermal Exposure: In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Contact a physician if condition worsens.

Oral Exposure: If Swallowing seek immediate medical advice.

Inhalation Exposure: If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Section 5 - Fire Fighting Measures

Firefighters should wear proper protective clothing and self contained breathing apparatus with full piece operated in positive pressure mode to prevent contact with skin and eyes.

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

Flash Point: N/A

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

Section 6 - Accidental Release Measures

Procedure(s) of Personal Precaution(s):

Wear protective gear.

Methods for Cleaning up: Absorb with sand, earth or vermiculite. Carefully sweep up and containerize for proper disposal.

Section 7 - Handling and Storage

Use care when handling. Wash thoroughly after handling. Store capped in a cool, well ventilated area. Keep away from incompatible materials.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use explosion-proof ventilation equipment. 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.

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 a respirator's use.

Section 9 - Physical and Chemical Properties

Physical State: Liquid

Appearance: Dark Purple

Odor: Vinegar-like, sour. (Weak.)

pH: N/A

Water.

Vapor Pressure: 2.3 kPa @ 20deg. C

Vapor Density: 0.62 (Air=1)

Evaporation Rate: N/A

Viscosity: N/A

Boiling Point: 100 deg. C

Solubility: N/A

Section 10 - Stability and Reactivity

Chemical Stability: Stable under ordinary conditions of use and storage. Heat and sunlight can contribute to instability.

Conditions to Avoid: Heat, freezing.

Incompatibilities with Other Materials: Reactive with oxidizing agents, acids.

Hazardous Decomposition Products: Products of degradation are less toxic than the product itself.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: AF1225000, TH5650000, BQ4425000, QJ6418000, BQ4900000

LD50/LC50:

CAS# 64-19-7: Acute oral toxicity (LD50): 3310 mg/kg [Rat].

Acute dermal toxicity (LD50): 1060 mg/kg [Rabbit].

Acute toxicity of the vapor (LC50): 5620 1 hours [Mouse].

Mutagenicity: CAS# 64-19-7: May affect genetic material based on animal test data.

Reproductive Effects: CAS# 64-19-7: May cause adverse reproductive effects based on animal test data.

Section 12 - Ecological Information

CAS# 64-19-7

Ecotoxicity: Fish: Goldfish: LC50 = 423 mg/l; 24 Hr. 88 ppm; 96 Hr; Fish: Fathead Minnow. 75 ppm; 96 Hr; Fish: Bluegill Sunfish. >100ppm; 96 Hr; Daphnia.

Environmental: No information available.

Physical: No information available.

Other: No information available.

CAS# 4197-07-3, 5141-20-8, 15312-42-6, 2353-45-9

Ecotoxicity: No information available.

Environmental: No information available.

Physical: No information available.

Other: No information available.

Section 13 - Disposal Considerations

Appropriate method of disposal of substance or preparation:

Handled as hazardous waste and sent to an RCRA approved incinerator or disposed in an RCRA approved wasted facility.

Section 14 – Transport Information

DOT

Non-Regulated

Section 15 - Regulatory Information

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

European/International Regulations

European Labeling in Accordance with EC Directives

Risk Phrases:

R48/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R36/37/38 Irritating to eyes, skin and respiratory tract.

R40 Limited evidence of a carcinogenic effect.

R42/43 May cause sensitization by inhalation and skin contact.

R51 Toxic to aquatic organisms.

R62/63/64 Possible risk of impaired fertility, harm to the unborn child and/or harm to breast-fed babies.

Safety Phrases:

S20/21 When using do not eat, drink or smoke.

S2 Keep out of the reach of children.

S3 Keep in a cool place.

- S7 Keep container tightly closed.
- S9 Keep container in a well-ventilated place.
- S15 Keep away from heat.
- S23 Do not breathe gas/fumes/vapour/spray.
- S24 Avoid contact with skin.
- S38 In case of insufficient ventilation wear suitable respiratory equipment.
- S37/39 Wear suitable gloves and eye/face protection.
- S46 If swallowed, seek medical advice immediately and show this container or label.
- S63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 16 - Additional Information

MSDS Creation Date: 10/15/12

Revision #1. CF 10/7/13

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