

**Material Safety Data Sheet**  
**Alcian Blue pH 2.5 Stain Solution**
**Section 1 - Chemical Product and Company Identification**
**MSDS Name:**

Alcian Blue pH 2.5 Stain Solution

**Catalog Numbers:**

88043

**Synonyms:**

None Known.

**Company Identification:**
 Richard Allan Scientific  
 4481 Campus Drive  
 Kalamazoo, MI 49008
**Company Phone Number:**

800-522-7270

**Emergency Phone Number:**

800-424-9300

**CHEMTREC Phone Number, US:**

(800) 424-9300

**CHEMTREC Phone Number, Europe:**

(202) 483-7616

**Section 2 - Composition, Information on Ingredients**

CAS#	Chemical Name	Percent	EINECS/ ELINCS	Hazard Symbols	Risk Phrases
64-19-7	Acetic acid	2-3	200-580-7		
75881-23-1	Alcian Blue 8 GX	<1.0	278-333-8		
26172-55-4	5-chloro-2-methyl-3-isothiazolone	<1.0	247-500-7		
2682-20-4	2-methyl-3-isothiazolone	<1.0	220-239-6		
7732-18-5	Distilled Water	Balance	231-791-2		

**Section 3 - Hazards Identification**
**EMERGENCY OVERVIEW**

*Appearance: blue liquid*

*Caution! May cause eye, skin, and respiratory tract irritation. The toxicological properties of this material have not been fully investigated.*

*Target Organs: no data found.*

## Potential Health Effects

**Eye:**

May cause eye irritation.

**Skin:**

May cause skin irritation.

**Ingestion:**

May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

**Inhalation:**

May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

**Chronic:**

No information found.

## Section 4 - First Aid Measures

**Eyes:**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

**Skin:**

In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

**Ingestion:**

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**

Treat symptomatically and supportively.

## 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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

**Extinguishing Media:**

Use extinguishing media most appropriate for the surrounding fire.

**Autoignition Temperature:****Explosion Limits:**

Lower:      Upper:

**Flash Point:****NFPA Rating:**

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

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**Section 6 - Accidental Release Measures**
**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Provide ventilation.

**Section 7 - Handling and Storage**
**Handling:**

Wash thoroughly after handling. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

**Storage:**

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

**Section 8 - Exposure Controls, Personal Protection**
**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

Chemical Name	ACGIH	NIOSH	OSHA
Acetic acid	10 ppm TWA ;15 ppm STEL	10 ppm TWA; 25 mg/m3 TWA 50 ppm IDLH	10 ppm TWA; 25 mg/m3 TWA;
Alcian Blue 8 GX	None listed.	None listed.	None listed.
5-chloro-2-methyl-3-isothiazolone	None listed.	None listed.	None listed.
2-methyl-3-isothiazolone	None listed.	None listed.	None listed.
Distilled Water	None listed.	None listed.	None listed.

**OSHA Vacated PELs**

Acetic acid: 10 ppm TWA; 25 mg/m3 TWA

**Personal Protective Equipment**
**Eyes:**

Wear chemical splash goggles.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

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Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a 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:** blue**Odor:** acetic odor**pH:** 2.5**Vapor Pressure:****Vapor Density:****Evaporation Rate:****Viscosity:****Boiling Point:****Freezing/Melting Point:****Decomposition Temperature:****Solubility in water:** Soluble.**Specific Gravity/Density:****Molecular Formula:** Solution**Molecular Weight****Section 10 - Stability and Reactivity****Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Excess heat.

**Incompatibilities with Other Materials**

strong oxidizing agents.

**Hazardous Decomposition Products**

Carbon monoxide, carbon dioxide.

**Hazardous Polymerization**

Has not been reported

**Section 11 - Toxicological Information****RTECS:**

CAS# 64-19-7: AF1225000

CAS# 75881-23-1 unlisted

CAS# 26172-55-4: NX8156850

CAS# 2682-20-4: NX8157080

CAS# 7732-18-5: ZC0110000

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CAS# 64-19-7:  
Draize test, rabbit, skin: 50 mg/24H Mild  
Inhalation, mouse: LC50 = 5620 ppm/1H  
Oral, rat: LD50 = 3310 mg/kg  
Skin, rabbit: LD50 = 1060 uL/kg.  
CAS# 75881-23-1:

CAS# 26172-55-4:

CAS# 2682-20-4:

CAS# 7732-18-5:  
Oral, rat: LD50 = >90 mL/kg.

**Carcinogenicity:**

CAS# 64-19-7: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
CAS# 75881-23-1: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
CAS# 26172-55-4: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
CAS# 2682-20-4: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Epidemiology:**

No information found.

**Teratogenicity:**

No information found.

**Reproductive:**

No information found.

**Mutagenicity:**

No information found.

**Neurotoxicity:**

No information found.

**Other:**

See actual entry in RTECS for complete information.

**Section 12 - Ecological Information****Section 13 - Disposal Considerations**

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 40CFR Part 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P Series Wastes**

None of the components are on this list.

**RCRA U Series Wastes**

None of the components are on this list.

## Section 14 - Transport Information

### US DOT

**Proper Shipping Name:** Not regulated.

**Hazard Class:**

**UN Number:**

**Packing Group:**

USA RQ: CAS# 64-19-7: 5000 lb final RQ; 2270 kg final RQ

### Canadian TDG

Not regulated.

## Section 15 - Regulatory Information

### US Federal

#### TSCA

CAS# 64-19-7 is listed on the TSCA Inventory.

CAS# 75881-23-1 is not listed on the TSCA Inventory. It is for research and development use only.

CAS# 26172-55-4 is listed on the TSCA Inventory.

CAS# 2682-20-4 is listed on the TSCA Inventory.

CAS# 7732-18-5 is listed on the TSCA Inventory.

#### Health and Safety Reporting List

None of the components are on this list.

#### Chemical Test Rules

None of the components are on this list.

#### TSCA Section 12b

CAS# 26172-55-4: Section 5

CAS# 2682-20-4: Section 5

#### TSCA Significant New Use Rule (SNUR)

None of the components are on this list.

#### CERCLA Hazardous Substances and corresponding RQs

CAS# 64-19-7: 5000 lb final RQ; 2270 kg final RQ

#### SARA Section 302 Extremely Hazardous Substances

None of the components are on this list.

#### SARA Hazard Categories

CAS# 64-19-7: immediate, delayed, fire.

#### SARA Section 313

None of the components are on this list.

#### Clean Air Act - Hazardous Air Pollutants (HAPs)

None of the components are on this list.

#### Clean Air Act - Class 1 Ozone Depletors

None of the components are on this list.

**Clean Air Act - Class 2 Ozone Depletors**

None of the components are on this list.

**Clean Water Act - Hazardous Substances**

CAS# 64-19-7 is listed as a Hazardous Substance under the CWA.

**Clean Water Act - Priority Pollutants**

None of the components are on this list.

**Clean Water Act - Toxic Pollutants**

None of the components are on this list.

**OSHA - Highly Hazardous**

None of the components are on this list.

**OSHA - Specifically Regulated Chemicals**

None of the components are on this list.

**US State****State Right to Know**

Acetic acid can be found on the following state Right-to-Know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

**California Prop 65**

CAS# 64-19-7  
CAS# 75881-23-1  
CAS# 26172-55-4  
CAS# 2682-20-4  
CAS# 7732-18-5

**California No Significant Risk Level**

CAS# 64-19-7  
CAS# 75881-23-1  
CAS# 26172-55-4  
CAS# 2682-20-4  
CAS# 7732-18-5

**European/International Regulations****European Labelling in Accordance with EC Directives:**

Hazard Symbols:

Risk Phrases:

Safety Phrases: S 24/25 Avoid contact with skin and eyes.

**WGK (Water Danger/Protection)****United Kingdom Occupational Exposure Limits****United Kingdom Maximum Exposure Limits****Canadian DSL/NDSL**

CAS# 64-19-7 is listed on Canada's DSL List.  
CAS# 26172-55-4 is listed on Canada's DSL List.  
CAS# 2682-20-4 is listed on Canada's DSL List.  
CAS# 7732-18-5 is listed on Canada's DSL List.

**Thermo**  
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**Canadian WHMIS Classifications**

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.

**Canadian Ingredient Disclosure List**

CAS# 64-19-7 is listed on the Canadian Ingredient Disclosure List.

**Section 16 - Other Information**

Color information has been  
MSDS Creation Date: July 22, 2005  
Revision Date: September 30, 2008

*This MSDS is intended for review and guidance in the receipt, storage, handling, use and disposal of product purchased from us, and for no other purpose. Use this product only as directed and in accordance with applicable instructions and warnings provided with the product. Please consult your institution's policies regarding use of this product. If you have obtained this MSDS other than in connection with the supply of this product from us, this MSDS should be consulted for general information only, and should not be relied upon for any purpose. As with the use of all hazardous materials, you should in all instances follow the guidance of the MSDS provided or available with the specific product purchased.*