

# SAFETY DATA SHEET



Conforms to regulation (EC) no. EU 453/2010

## SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product Identifier

Product Name: Alcian Blue

Product Number: HS-504

### 1.2 Relevant Identified Uses of the Substance/Mixture and Uses Advised Against

Investigational research by professional users

### 1.3 Details of the Supplier of the Safety Data Sheet

#### Manufacturer

National Diagnostics  
305 Patton Drive  
Atlanta, GA 30036  
(404) 699-2121  
(800) 526-3867  
info@nationaldiagnostics.com

### 1.4 Emergency Telephone Number

#### ChemTel Inc.

Contract number MIS8894340  
1-800 255-3924 (United States, Canada, Puerto Rico & US Virgin Islands)  
01-800-099-0731 (Mexico)  
400-120-0751 (China)  
000-800-100-4086 (India)  
1-300-954-583 (Australia)  
0-800-591-6042 (Brazil)  
+1-813-255-3924 (All other regions)

## SECTION 2 - HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture

Not a hazardous substance or mixture according to regulation (EC) No. 1272/2008.

### 2.2 Label Elements

This product has no labeling elements associated with EC directives or respective national laws.

### 2.3 Other Hazards

None found.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance

#### Chemical Names/Description

Ingrain blue

#### Chemical Formula

$C_{56}H_{68}N_{16}S_4CuCl_4$

#### Component List

| Component   | % Comp. | CAS #      | EC #      |
|-------------|---------|------------|-----------|
| Alcian Blue | >99     | 75881-23-1 | 251-705-7 |

## SECTION 4 - FIRST AID MEASURES

### 4.1 Description of First Aid Measures

#### Inhalation

Remove to fresh air. Get medical attention for any breathing difficulty.

#### Ingestion

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

#### Skin

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

#### Eyes

Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention

immediately.

## **4.2 Most Important Symptoms and Effects, Both Acute and Delayed**

### **Inhalation**

Coughing and shortness of breath.

### **Ingestion**

Effects not determined.

### **Skin**

Redness and pain.

### **Eyes**

Redness and pain.

## **4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed**

Unknown/not applicable

## **SECTION 5 - FIRE FIGHTING MEASURES**

### **5.1 Extinguishing media**

Water spray, dry chemical, alcohol-resistant foam, or carbon dioxide.

### **5.2 Special Hazards Arising from the Substance/Mixture**

#### **Hazardous Combustion Products**

Hydrogen chloride, carbon monoxide, oxides of nitrogen, oxides of sulfur, irritating and toxic fumes and gases, carbon dioxide.

#### **Hazardous Decomposition Products**

Burning may produce bromines, sulfur oxides, carbon dioxide, and carbon monoxide.

#### **Hazardous Polymerization**

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

### **5.3 Advice for Firefighters**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### **5.4 Further Information**

No data available.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal Precautions**

Wear appropriate protective equipment as specified in Section 8.

### **6.2 Environmental Precautions**

Prevent discharge into the environment. Dike spills and stop leakage where practical. Do not allow material to enter drains.

### **6.3 Methods and Materials for Containment and Cleaning Up**

Remove all sources of ignition. Ventilate area. Clean up in a manner that does not disperse dust. Use non-sparking tools and equipment. Reduce airborne dust by moistening with water. Pick up for recovery or disposal and place in a closed container.

### **6.4 References to Other Sections**

For disposal information, see Section 13. For protective clothing and equipment, see Section 8.

## **SECTION 7 - HANDLING AND STORAGE**

### **7.1 Precautions for Safe Handling**

Avoid contact and inhalation. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

### **7.2 Conditions for Safe Storage (including any incompatibles)**

Keep in a tightly closed container, stored in a cooled, dry, ventilated area away from sources of heat or ignition. Protect from physical damage. Isolate from incompatible materials (section 10).

#### **Incompatibles**

Strong oxidizers.

### **7.3 Specific End Uses**

Investigational research by professional users

## **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PRECAUTIONS**

### **8.1 Control Parameters**

ACGIH Threshold Limit Value (TLV): none established  
 OSHA Permissible Exposure Limit (PEL): None established

## 8.2 Exposure Controls

### Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

### Respiratory Protection

For conditions of use where exposure to the dust or mist is apparent, a full-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

### Eye Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

### Skin Protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical & Chemical Properties

|  |             |   |                    |
|--|-------------|---|--------------------|
| a. Appearance                            | Blue powder | b. Odor   | None               |
| c. Odor Threshold                        | N.A.        | d. pH   | No Data            |
| e. Melting/Freezing Point (°C)           | N.A.        | f. Boiling point (°C)                           | N.A.               |
| g. Flash Point (°C)                      | N.A.        | h. Evaporation Rate                             | No Data            |
| i. Flammability                          | N.A.        | j. Upper/Lower Flammability or Explosive Limits | N.A.               |
| k. Vapor Pressure                        | No Data     | l. Vapor Density (Air = 1)                      | No Data            |
| m. Relative Density                      | No Data     | n. Water Solubility                             | moderate           |
| o. Partition Coefficient n-octanol/water | No data     | p. Autoignition Temperature (°C)                | N.A.               |
| q. Decomposition Temperature (°C)        | No data     | r. Viscosity                                    | No data available. |
| s. Explosive Properties                  | N.A.        | t. Oxidizing Properties                         | not an oxidizer    |

## SECTION 10 - STABILITY AND REACTIVITY

### 10.1 Reactivity

Non reactive under normal conditions of use.

### 10.2 Chemical Stability

Stable under recommended conditions of use and storage.

### 10.3 Possibility of Hazardous Reactions

Will not occur under normal conditions of use (See Sections 10.4 & 10.5).

### 10.4 Conditions to Avoid

Heat, flames, ignition sources, and incompatibles.

### 10.5 Incompatible Materials

Strong oxidizers.

### 10.6 Hazardous Decomposition Products

Burning may produce bromines, sulfur oxides, carbon dioxide, and carbon monoxide.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Product LD50 Values

#### Oral Rat LD50 (mg/kg)

Not available

#### Dermal Rabbit LD50 (mg/kg)

Not available

### Component Cancer List Status

|             | NTP Carcinogen |             | IARC Category |
|-------------|----------------|-------------|---------------|
|             | Known          | Anticipated |               |
| Alcian Blue | No             | No          | None          |

### Potential Health Effects

**Inhalation**

May cause irritation to the respiratory tract.

**Ingestion**

Large oral doses may cause irritation to the gastrointestinal tract.

**Skin**

May cause irritation to the skin.

**Eyes**

May cause irritation to the eyes.

**Carcinogenicity**

Not listed as a known or anticipated carcinogen by NTP or IARC.

**Mutagenicity**

No information found. The toxicological properties of this substance have not been fully investigated.

**Reproductive Toxicity**

No information found. The toxicological properties of this substance have not been fully investigated.

**Teratogenic Effects**

No information found. The toxicological properties of this substance have not been fully investigated.

**Routes of Entry**

No information found.

**Target Organ Statement**

No information found. The toxicological properties of this substance have not been fully investigated.

**SECTION 12 - ECOLOGICAL INFORMATION****12.1 Toxicity**

|  | Vertebrates | Invertebrates | Algae   | Microorganisms |
|--|-------------|---------------|---------|----------------|
| Aquatic Toxicity<br>(ppm unless otherwise noted)                 | No data     | No data       | No data | No data        |
|  | Birds       | Arthropods    | Plants  | Microorganisms |
| Terrestrial Environment Toxicity<br>(ppm unless otherwise noted) | No data     | No data       | No data | No data        |

**12.2 Persistence and Degradability**

No data

**12.3 Bioaccumulative Potential**

No data

**12.4 Mobility in Soil**

No data

**12.5 Results of PBT and vPvB Assessment**

No data

**12.6 Other Adverse Effects**

None

**SECTION 13 - DISPOSAL CONSIDERATIONS****13.1 Waste Treatment Methods**

Offer surplus or non-recyclable product to licensed disposal company. Disposal is subject to user compliance with applicable law and product characteristics at time of disposal. Dispose of packaging as product.

**SECTION 14 - TRANSPORT INFORMATION**

|                            | ADR/RID       | IATA          | IMO           | DOT           |
|----------------------------|---------------|---------------|---------------|---------------|
| 14.1 UN Number             | N.A.          | N.A.          | N.A.          | N.A.          |
| 14.2 Shipping Name         | Not Regulated | Not Regulated | Not Regulated | Not Regulated |
| 14.3 Hazard Class          | N.A.          | N.A.          | N.A.          | N.A.          |
| 14.4 Packing Group         | N.A.          | N.A.          | N.A.          | N.A.          |
| 14.5 Environmental Hazards | N.A.          | N.A.          | N.A.          | N.A.          |
| 14.6 Special Precautions   | N.A.          | N.A.          | N.A.          | N.A.          |

## SECTION 15 - REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance/Mixture

#### United States

##### TSCA Regulatory Statement

All intentional ingredients are listed on the TSCA Inventory.

##### SARA 311/312 Hazard Categories

| Component   | Fire | Pressure | Reactivity | Acute | Chronic |
|-------------|------|----------|------------|-------|---------|
| Alcian Blue | No   | No       | No         | Yes   | No      |

#### Europe

##### EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

## SECTION 16 - OTHER INFORMATION

### Revisional Updates

4/26/2019 - Updated Section 1.4

5/29/2015 - Updated Sections 2.1 and 3.1

9/24/2013 - Released Version 1.0

### NFPA Codes

Health 1 Flammability 0 Reactivity 0

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