



Issuing Date 26-Oct-2009

Revision Date 15-Apr-2011

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name	Alcian Blue
Product Code(s)	0298
Recommended Use	For Further Manufacturing Use Only Not for Human or Animal Drug Use
Recommended Use	Dye used to stain glucosaminoglycans and other acidic polysaccharides in tissue sample and as a bacterial stain.

Company
AMRESKO, LLC
6681 Cochran Road
Solon, Ohio 44139

Emergency Telephone Number Chemtrec 1-800-424-9300

Company Phone Number 1-800-448-4442
E-mail Address info@amresco-inc.com

2. HAZARDS IDENTIFICATION

GHS - Classification

Classification	Skin Irritant 2 Serious Eye Damage/Irritation 1C
Signal Word	Warning



Hazard Statements	H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
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Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF
INHALED: Remove victim to fresh air and keep at rest in a position comfortable for
breathing P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for
several minutes. Remove contact lenses, if present and easy to do. Continue
rinsing

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Copper(4+), [[[N,N',N'',N'''-(29H,31H-phth alocyaninetetrayltetrakis[meth ylenethio[(dimethylamino)met hyldiyne]]]tetrakis[N-methylme thanaminiumato]](2-)-N29,N30 ,N31,N32]-, tetrachloride	EEC No. 251-705-7	Not available	33864-99-2	95-100	PBT

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes
Inhalation	Move to fresh air. If breathing becomes difficult, give oxygen
Ingestion	Clean mouth with water and afterwards drink plenty of water
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not flammable
Flash Point	Not determined
Suitable Extinguishing Media	Dry chemical, CO2, water spray or regular foam
Hazardous Combustion Products	Carbon oxides, Nitrogen oxides (NOx), Hydrogen Chloride gas, Sulfur oxides.
Explosion Data	
Sensitivity to Mechanical Impact	Not sensitive
Sensitivity to Static Discharge	Not sensitive
Protective Equipment and Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation
Methods for Containment	Prevent further leakage or spillage if safe to do so
Methods for Cleaning Up	Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place
Incompatible Products	Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Copper(4+), [[N,N',N'',N'''-[29H,31H-phthalocy aninetetrayltetrakis[methylenethio[(dimethylamino)methylidene]]]tetra kis[N-methylmethanaminiumato]](2 -)-N29,N30,N31,N32]-, tetrachloride 33864-99-2			IDLH: 100 mg/m ³ TWA: 1 mg/m ³

Engineering Measures	Showers Eyewash stations Ventilation systems
Personal Protective Equipment	
Eye/Face Protection	Tightly fitting safety goggles.
Skin and Body Protection	Wear protective gloves/clothing
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark blue Violet	
Odor	No information available	
Odor Threshold	No information available	
Decomposition Temperature °C	No information available	
Freezing Point	No information available	
Initial Boiling Point	No information available	
Physical State	Powder	
pH	No data available	
Flash Point	Not determined	
Autoignition Temperature	No data available	
Boiling Point/Range	No data available	
Melting Point/Range	148 °C	
Flammability Limits in Air	Upper No data available	Lower No data available
Explosive Properties	No information available	
Oxidizing Properties	No information available	
Evaporation Rate	No data available	
MMHG @ 37.8 C	No data available	
Vapor Density	No data available	
Specific Gravity	No data available	
Solubility	No information available	
Partition Coefficient (n-octanol/water)	No data available	
Viscosity	No information available	

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Incompatible Products	Strong oxidizing agents.
Conditions to Avoid	None known based on information supplied
Hazardous Decomposition Products	Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides. Hydrogen chloride gas.
Hazardous Polymerization	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Causes skin, eye and respiratory tract irritation. Risk of serious damage to eyes.
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Chronic Toxicity

Chronic Toxicity	No known effect based on information supplied
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Target Organ Effects	None known.
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12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations

14. TRANSPORT INFORMATION

IATA Not regulated

DOT Not regulated

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Copper(4+), [[N,N',N'',N'''-[29H,31H]-phthalocyaninetetrayl]tetraakis[methylenethio[(dimethylamino)methylidene]]]tetraakis[N-methylmethanaminiumato]](2-)-N29,N30,N31,N32]-, tetrachloride	>=0.1	Not applicable	Not applicable	Not applicable	Not applicable	Deleterious

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II

Copper(4+), [[N,N',N'',N'''-[29H,31H-phthalocyaninetetrayltetrakis[methylenethio[(dimethylamino)methylidyne]]]tetrakis[N-methylmethanaminiumato]](2-)-N29,N30,N31,N32]-, tetrachloride 33864-99-2 (95-100)	Not applicable	Not applicable	Not applicable	Not applicable	>= 1.0 %
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International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Does not Comply
KECL	Does not Comply
PICCS	Does not Comply
AICS	Does not Comply

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Copper(4+), [[N,N',N'',N'''-[29H,31H-phthalocyaninetetrayltetrakis[methylenethio[(dimethylamino)methylidyne]]]tetrakis[N-methylmethanaminiumato]](2-)-N29,N30,N31,N32]-, tetrachloride	33864-99-2	95-100	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Copper(4+), [[N,N',N'',N'''-[29H,31H-phthalocyaninetetrayltetrakis[methylenethio[(dimethylamino)methylidyne]]]tetrakis[N-methylmethanaminiumato]](2-)-N29,N30,N31,N32]-, tetrachloride 33864-99-2 (95-100)		X		

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

CERCLA

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Copper(4+), [[N,N',N'',N'''-[29H,31H-pht halocyaninetetrayltetrakis[m ethylenethio[(dimethylamino) methylidyne]]]tetrakis[N-met hylmethanaminiumato]](2-)- N29,N30,N31,N32]-, tetrachloride		X	X		

International Regulations

Mexico - Grade No information available.

Canada

WHMIS Hazard Class

D2B Toxic materials



16. OTHER INFORMATION

Issuing Date 26-Oct-2009

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Revision Note
No information available.

Recommended Restrictions No information available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS