

# Safety Data Sheet

Creation Date 18-Mar-2009 Revision Date 18-Mar-2009 Revision Number: 1

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Shandon Cryochrome Blue

Cat No. 9990422

**Synonyms** No information available.

Recommended Use Laboratory chemicals

CompanyEmergency Telephone NumberRichard Allan ScientificChemtrec US: (800) 424-9300A Subsidiary of Thermo Fisher ScientificChemtrec EU: (202) 483-7616

4481 Campus Drive Kalamazoo, MI 49008 Tel: (800) 522-7270

#### 2. HAZARDS IDENTIFICATION

CAUTION!

**Emergency Overview** 

May cause eye, skin, and respiratory tract irritation . The toxicological properties have not been fully investigated.

Appearance Blue. Physical State Liquid. Odor none.

Target Organ Effects None known.

**Potential Health Effects** 

**Acute Effects** 

**Principle Routes of Exposure** 

Eyes May cause irritation. Skin May cause irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects No information available.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Haz/Non-haz

Component	CAS-No	Weight %

3. COMPOSITION/INFORMATION ON INGREDIENTS									
Water	7732-18-5	83-84							
Polyvinyl alcohol	9002-89-5	10-11							
Polyethylene glycol	25322-68-3	4-5							
Potassium formate	590-29-4	1							
Phenoxazin-5-ium, 1,3-diamino-7-(diethylamino)-8-	10127-36-3	<.01							
methyl-, chloride									

#### 4. FIRST AID MEASURES

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention

immediately if symptoms occur.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if

symptoms occur.

**Ingestion** Do not induce vomiting. Obtain medical attention.

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Flash Point Not applicable

MethodNo information available.Autoignition TemperatureNo information available.

**Explosion Limits** 

UpperNo data availableLowerNo data available

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to

extinguish surrounding fire..

Unsuitable Extinguishing Media No information available.

Hazardous Combustion Products

No information available.

Sensitivity to mechanical impact
Sensitivity to static discharge
No information available.
No information available.

### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

#### **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

NFPA Health 1 Flammability 0 Instability 0 Physical hazards N/A

### **6. ACCIDENTAL RELEASE MEASURES**

Personal Precautions Ensure adequate ventilation. Use personal protective equipment.

**Environmental Precautions** Should not be released into the environment.

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable and closed containers for

disposal.

### 7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin,

eyes and clothing. Avoid ingestion and inhalation.

Keep containers tightly closed in a dry, cool and well-ventilated place. **Storage** 

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Measures** Ensure that eyewash stations and safety showers are close to the workstation location. Ensure

adequate ventilation, especially in confined areas.

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

NIOSH IDLH: Immediately Dangerous to Life or Health

**Personal Protective Equipment** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's Eye/face Protection

eve and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection **Respiratory Protection** 

Wear appropriate protective gloves and clothing to prevent skin exposure.

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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Liquid **Appearance** Blue Odor none

**Odor Threshold** No information available.

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**Vapor Pressure** No information available. No information available. Vapor Density No information available. **Viscosity Boiling Point/Range** Not applicable

No information available. Melting Point/Range

No information available. **Decomposition temperature °C Flash Point** Not applicable

**Evaporation Rate** No information available.

No information available. **Specific Gravity** Solubility No information available. log Pow No data available

Molecular Formula Solution

### **10. STABILITY AND REACTIVITY**

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Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat.

Incompatible Materials Oxidizing agents, Strong acids, Bases

Hazardous Decomposition Products Carbon monoxide (CO<sub>2</sub>) Carbon dioxide (CO<sub>2</sub>)

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions . None under normal processing..

### 11. TOXICOLOGICAL INFORMATION

#### **Acute Toxicity**

**Component Information** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	90000 mL/kg ( Rat )	Not listed	Not listed
Polyvinyl alcohol	20000 g/kg (Rat)	Not listed	Not listed
Polyethylene glycol	28000 g/kg (Rat)	20 g/kg (Rabbit)	Not listed
Potassium formate	5500 mg/kg ( Mouse )	Not listed	Not listed

**Irritation** No information available.

**Toxicologically Synergistic** 

**Products** 

No information available.

**Chronic Toxicity** 

Carcinogenicity There are no known carcinogenic chemicals in this product

Sensitization No information available.

Mutagenic Effects No information available

Reproductive Effects

No information available.

Developmental Effects

No information available.

**Teratogenicity** No information available.

Other Adverse Effects The toxicological properties have not been fully investigated...

**Endocrine Disruptor Information** No information available

### 12. ECOLOGICAL INFORMATION

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**Ecotoxicity** 

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Component Freshwater Algae		Freshwater Fish	Microtox	Water Flea		
Polyethylene glycol	Not listed	Not listed	EC50 = 100000 mg/L 15 min	Not listed		

Persistence and Degradability

Bioaccumulation/ Accumulation

No information available

Mobility

No information available

### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national

hazardous waste regulations to ensure complete and accurate classification.

### 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

### 15. REGULATORY INFORMATION

All of the components in the product are on the following Inventory lists: All of the components in the product are on the following Inventory lists:

#### **International Inventories**

Component	TSCA	DSL	NDSL	<b>EINECS</b>	ELINCS	NLP	PICCS	<b>ENCS</b>	AICS	CHINA	KECL
Water	Present	Х	-	231-791- 2	-		Х	-	Х	Х	KE- 35400 X
Polyvinyl alcohol	XU	Х	-	-	-		Х	Х	Х	Х	KE- 29060 X

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Polyethylene glycol	XU	Х	-	-	-	500-038- 2	Х	Х	Х	Х	KE- 20228 X
Potassium formate	Present	Х	-	209-677- 9	i		-	X	Х	X	KE- 29116 X
Phenoxazin-5-ium, 1,3- diamino-7-(diethylamino)-8- methyl-, chloride	Present	Х	-	233-358- 3	-		-	-	-	-	-

### Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### **U.S. Federal Regulations**

TSCA 12(b) Not applicable

#### **SARA 313**

Not applicable

### SARA 311/312 Hazardous Categorization

Acute Health HazardNoChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

#### **Clean Water Act**

Not applicable

#### Clean Air Act

Not applicable

#### **OSHA**

Not applicable

#### CERCLA

Not Applicable

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### State Right-to-Know

Not applicable

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

#### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### **WHMIS Hazard Class**

Non-controlled

### **16. OTHER INFORMATION**

Prepared By Regulatory Affairs

Creation Date 18-Mar-2009
Print Date 18-Mar-2009

Revision Summary "\*\*\*", and red text indicates revision

#### **Disclaimer**

The information provided on this Safety Data Sheet 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 SDS**