

Safety Data Sheet

Creation Date 20-Mar-2009 Revision Date 20-Mar-2009 Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Shandon Cryochrome Yellow

Cat No. 9990423

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 Yellow.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						
FD&C vellow No. 5	1934-21-0	<.01						

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

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 impactNo information available.Sensitivity to static dischargeNo 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.

Up

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.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

adequate ventilation, especially in confined areas.

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

established by the region specific regulatory bodies.

NIOSH IDLH: Immediately Dangerous to Life or Health

Personal Protective Equipment

Eye/face Protection

Skin and body protection

Respiratory Protection

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.

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 Yellow **Appearance** Odor none

Odor Threshold No information available.

7 - 9 Hq

Vapor Pressure No information available. Vapor Density No information available. No information available. **Viscosity**

Boiling Point/Range Not applicable

Melting Point/Range No information available. Decomposition temperature °C No information available.

Not applicable **Flash Point**

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

Solution Molecular Formula

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Excess heat.

Incompatible Materials Oxidizing agents, Strong acids, Bases

Hazardous Decomposition Products Carbon monoxide (CO₂) Carbon dioxide (CO₂)

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 > 90 mL/kg Oral LD50 Rat		
Water	> 90 mL/kg Oral LD50 Rat	> 90 mL/kg Oral LD50 Rat			
Polyvinyl alcohol	20000 g/kg (Rat)	Not listed	Not listed		
Polyethylene glycol	> 20 g/kg Dermal LD50 Rabbit = 28 g/kg Oral LD50 Rat	= 28 g/kg Oral LD50 Rat > 20 g/kg Dermal LD50 Rabbit	> 20 g/kg Dermal LD50 Rabbit = 28 g/kg Oral LD50 Rat		
	> 20 g/kg Dermal LD50 Rabbit	20 g/kg Berniai EB00 Kabbit	> 20 g/kg Dermal LD50 Rabbit		
Potassium formate 5500 mg/kg (Mouse)		Not listed	Not listed		
FD&C vellow No. 5 12750 mg/kg (Mouse)		Not listed	Not listed		

Irritation No information available.

Toxicologically Synergistic

Products

No information available.

Chronic Toxicity

Teratogenicity

Carcinogenicity There are no known carcinogenic chemicals in this product

SensitizationNo information available.Mutagenic EffectsNo information availableReproductive EffectsNo information available.

Developmental Effects No information available.

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

No information available.

Endocrine Disruptor Information No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Polyethylene glycol	Not listed	> 5000 mg/L LC50 Carassius	= 100000 mg/L EC50	Not listed
		auratus 24 h PEG 200, 400,	Photobacterium	
		800	phosphoreum 15 min	
			polymer unspecified	

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	EINECS E	ELINCS	NLP	PICCS	ENCS	AICS	CHINA	KECL	l
--	-----------	------	-----	------	----------	--------	-----	-------	------	------	-------	------	---

Water	Present	Present	-	-	-		Present	-	Present	Present	KE- 35400
Polyvinyl alcohol	XU	Х	-	-	-		Х	Х	Х	Х	KE- 29060 X
Polyethylene glycol	XU	Present	-	-	-	NLP No. 500-038- 2 (>1<4.5 mol ethoxylat ed units, consistin g of 50% w/w or more of species of the same molecula r weight)		2-441; 7- 129; 8- 429	Present	Present	KE- 20228
Potassium formate	Present	Х	-	209-677- 9	-		-	Х	Х	Х	KE- 29116 X
FD&C yellow No. 5	Present	Х	-	217-699- 5	-		Х	Х	Х	Х	KE- 06857 X

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 Hazard No
Chronic Health Hazard No
Fire Hazard No
Sudden Release of Pressure Hazard No

Reactive Hazard

No

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
 20-Mar-2009

 Print Date
 20-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