

SAFETY DATA SHEET Keracyanin (chloride)

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according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Code: 15778

Product Name: Keracyanin (chloride)

Synonyms: 3-[[6-O-(6-deoxy-a-L-mannopyranosyl)-ß-D-glucopyranosyl]oxy]-2-(3,4-dihydroxyphenyl)-5,7-dih

ydroxy-1-benzopyrylium, monochloride; Cyanidin 3-rutinoside; Meralop; Sambucin;

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet:

Company Name: Cayman Chemical Company

1180 E. Ellsworth Rd. Ann Arbor, MI 48108

Web site address: www.caymanchem.com

Information: Cayman Chemical Company +1 (734)971-3335

1.4 Emergency telephone number:

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

CHEMTREC Outside USA and Canada: +1 (703)527-3887

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:
- 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:
- 2.2 Label Elements:
- 2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:

GHS Signal Word:

GHS Hazard Phrases:

Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.

GHS Precaution Phrases:

No phrases apply.

GHS Response Phrases:

No phrases apply.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract.

Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption.

May cause eye, skin, or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Section 3. Composition/Information on Ingredients

	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
18719-76-1 OA5007000	Keracyanin	100.0 %	242-528-6 NA	No data available.



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Section 4. First Aid Measures

4.1 Description of First Aid No data available.

Measures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel.

Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated

clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined

and tested by medical personnel.

In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an

unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by

medical personnel.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Media: Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing A solid water stream may be inefficient.

Media:

5.2 Flammable Properties and No data available.

Hazards:

Flash Pt: No data.

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or

equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.

Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,

Emergency Procedures: and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental Take steps to avoid release into the environment, if safe to do so.

Precautions:

6.3 Methods and Material For Contain spill and collect, as appropriate.

Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.

Up:

Section 7. Handling and Storage

7.1 Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.

in Handling: Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken Keep container tightly closed.

in Storing: Store in accordance with information listed on the product insert.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
18719-76-1	Keracyanin	No data.	No data.	No data.

Multi-region format



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Cay	man]	Kerac	cyanin (d	chloride)		Revision: 12/18/2014
CAS		Partial Chemical N	ame	OSH	IA TWA		ACGIH TWA	Other Limits
	19-76-1	Keracyanin		No da	ata.		No data.	No data.
8.2		re Controls:						
8.2.1	-		Jse process enclosi	ures, lo	cal exhaust v	ventilation, o	r other engineering	controls to control airborne
	•	_	evels below recomn				0 0	
8.2.2	Person	al protection equipr	nent:					
	Eye Pro	otection:	Safety glasses					
	Protect	ive Gloves:	Compatible chemica	ıl-resista	ant gloves			
	Other P	rotective Clothing:	ab coat					
	Respira	tory Equipment	NIOSH approved res	spirator	, as condition	ns warrant.		
	(Specify	y Type):						
	Work/H	ygienic/Maintenan [Oo not take internall	y.				
	ce Prac	tices:	acilities storing or υ	utilizing	this material	l should be e	quipped with an eye	ewash and a safety shower.
		'	Vash thoroughly aft	er hand	lling.			
		1	No data available.					
		Se	ction 9. Phys	sical	and Che	emical F	Properties	
9.1	Informat	tion on Basic Physi	cal and Chemical F	Properti	ies			
	Physica	al States:	[] Gas	[] Liqu	id [X]S	Solid		
	Appear	ance and Odor:	A crystalline	solid				
	Melting	Point:	No data.					
	Boiling	Point:	No data.					
	Flash P	t:	No data.					
	Evapora	ation Rate:	No data.					
	Explosi	ve Limits:	LEL: No dat	a.		UEL: N	lo data.	
	Vapor F	Pressure (vs. Air or	nm No data.					
	Hg):							
	Vapor D	Density (vs. Air = 1):	No data.					
	Specific	Gravity (Water = 1)	: No data.					
	Solubili	ty in Water:	No data.					
	Solubili	ty Notes:	~2 mg/ml in	PBS (pl	H 7.2); ∼1 m	g/ml in EtOF	l; ~25 mg/ml in DMS	SO; ~20 mg/ml in DMF;
	Autoign	nition Pt:	No data.					
9.2	Other In	formation						
	Percent	Volatile:	No data.					
	Molecu	lar Formula & Weigl	nt: C27H31O15	• CI	631.0			
			Section 10). Sta	bility an	nd React	ivity	
10.1	Reactiv	ity:	No data available.					
10.2	Stability	y: l	Jnstable [] Sta	able [X]			

10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.

Polymerization: Will occur [] Will not occur [X]

10.4 Conditions To Avoid: No data available.10.5 Incompatibility - Materials strong oxidizing agents

To Avoid:

10.6 Hazardous carbon dioxide

Decomposition Or carbon monoxide

Byproducts:

Multi-region format



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Section 11. Toxicological Information

11.1 Information on The toxicological effects of this product have not been thoroughly studied.

Toxicological Effects: Keracyanin (chloride) - Toxicity Data: Intraperitoneal LD50 (rat): 1900 mg/kg; Oral TDLO (rat): 364

gm/kg;

Chronic Toxicological Keracyanin (chloride) - Investigated as a reproductive effector.

Effects: Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.

See actual entry in RTECS for complete information. Keracyanin (chloride) RTECS Number: OA5007000

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment.

Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and No data available.

Degradability:

12.3 Bioaccumulative No data available.

Potential:

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB No data available.

assessment:

Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not dangerous goods.

DOT Hazard Class: UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not dangerous goods.

UN Number: Hazard Class:

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Transport in accordance with local, state, and federal regulations.

Information:

Section 15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
18719-76-1	Keracyanin	No	No	No

CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists
18719-76-1	Keracyanin	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: No; CA PROP.65: No



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Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)

Statement: No.1272/2008.

Section 16. Other Information

Revision Date: 12/18/2014

Additional Information About

No data available.

This Product:

Company Policy or Disclaimer: DISCLAIMER: This information is believed to be accurate and represents the best information

currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for

their particular purposes.