

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** Chelerythrine Chloride  
**Product Number** 11916  
**CAS** 3895-92-9  
**Identified Uses** For Research Use Only (RUO). Not intended for use in humans or animals.  
 Not intended for therapeutic or diagnostic procedures.

**Manufacturer/Supplier** Cell Signaling Technology, Inc.  
 3 Trask Lane  
 Danvers, MA 01923 USA  
**Phone #:** 1-978-867-2300  
**Emergency Tel#** 1-978-578-6737

**2. HAZARDS IDENTIFICATION**
**Emergency Overview**
**OSHA Hazards**

Target organ effect, toxic by inhalation, harmful by ingestion, harmful by skin adsorbtion, irritant

**Target Organs**

Damage to heart, Blood, Nerves, Liver


**Warning!**
**GHS Classification**

Acute Toxicity, Inhalation (Category 4)  
 Acute Toxicity, Dermal (Category 4)  
 Acute Toxicity, Oral (Category 4)  
 Skin irritation (Category 2)  
 Eye irritation (Category 2A)  
 Specific target organ toxicity –single exposure (Category 3)

**Physical State**

Solid.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**
**Hazardous Ingredients**

Please see the individual material safety data sheets which can be found on the CST website [www.cellsignal.com/support/msds.html](http://www.cellsignal.com/support/msds.html) for hazard communication information specific to individual kit components contained in this product.

Chemical Name	CAS No.	Concentration
Cherelyine Chloride	3895-92-9	-

**Synonym:** 1,2-Dimethoxy-12-methyl[1,3]benzodioxolo[5,6-c]phenanthridinium chloride  
**Formula:** C<sub>21</sub>H<sub>18</sub>ClNO<sub>4</sub>  
**Molecular Weight:** 383.82 g/mol

**4. FIRST AID MEASURES**

**Eye Contact** Rinse immediately with plenty of water. Get medical attention.  
**Skin Contact** Rinse immediately with soap and plenty of water. Get medical attention.  
**Inhalation** Move to fresh air. Get medical attention.  
**Ingestion** Call Poison Control Center immediately. Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention.  
**Notes to physician** Treat symptomatically.

**5. FIRE FIGHTING MEASURES**

<b>Flash Point</b>	See Section 9. Physical and Chemical Properties
<b>Suitable Extinguishing Media</b>	Use dry chemical
<b>Special exposure hazards</b>	No data available
<b>Special protection for fire fighters</b>	Wear appropriate self-contained breathing apparatus and protective unit
<b>Other information</b>	No data available

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	Do not touch or walk through spilled material. Wear personal protective equipment
<b>Environmental precautions</b>	Do not let product enter drains.
<b>Clean up methods</b>	Soak up with absorbent material. Keep in suitable closed containers for disposal.
<b>Other information</b>	See sections 12 and 13 for additional information.

**7. HANDLING AND STORAGE**

<b>Safe handling advice</b>	Avoid contact with eyes and skin. Avoid formation of dust and aerosols. Ensure adequate ventilation.
<b>Storage condition</b>	Keep container tightly closed in a cool dry location. Recommended storage temperature" -20C.
<b>Incompatibilities</b>	No data available
<b>Specific end uses</b>	No data available

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**
**Exposure Controls**

Apply technical measures to comply with the occupational exposure limits.

**Engineering Controls**

Emergency eyewash and safety shower. Mechanical exhaust required.

**Hygiene Measures**

Do not eat, drink or smoke when handling product. Wash hands thoroughly after handling product. Wash contaminated clothing before reuse.

**Personal Protective Equipment**

Respiratory Protection:	In case of insufficient ventilation wear suitable respiratory equipment.
Eye Protection:	Safety glasses with side shields
Skin and body protection:	Wear suitable protective clothing, protective shoes or boots.
Hand protection:	Compatible chemical resistant gloves.

**9. PHYSICAL AND CHEMICAL PROPERTIES**
**Information on basic physical and chemical properties**

Physical State	crystalline solid
Color	yellow
Odor	none
pH	no data available
Water Solubility	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Evaporation rate	no data available
Flammability	no data available
Flash point	no data available
Autoignition temperature	no data available
Flammability limits in air	no data available
Explosive properties	no data available
VOC content	no data available

Decomposition temperature      no data available

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**10. STABILITY AND REACTIVITY**

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<b>Stability</b>	Stable under normal conditions
<b>Conditions/Materials to avoid</b>	No data available
<b>Hazardous decomposition products</b>	No data available

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**11. TOXICOLOGICAL INFORMATION**

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To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

**Acute Toxicity**

LD50 Intravenous – mouse – 18.5 mg/kg

LD50 Subcutaneous – mouse- 95 mg/kg

**Potential Health Effects****Acute Toxicity**

Eyes	Causes serious eye irritation.
Skin	Harmful if absorbed through skin. Causes skin irritation
Inhalation	Harmful if inhaled. Causes respiratory tract irritation
Ingestion	Harmful if swallowed.

**Chronic Effects**

Carcinogenic effects	No known significant effects or critical hazards.
Mutagenic effects	No known significant effects or critical hazards.
Teratogenic effects	No known significant effects or critical hazards.
Reproductive toxicity	No known significant effects or critical hazards.

RTECS: FL9200000

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**12. ECOLOGICAL INFORMATION**

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<b>Ecotoxicity</b>	No data available
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility</b>	No data available

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**13. DISPOSAL CONSIDERATIONS**

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**Waste Disposal Methods:**      Dispose of in accordance with all applicable environmental laws and regulations.

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**14. TRANSPORT INFORMATION**

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<b>IATA</b>	Not regulated as dangerous goods
<b>DOT</b>	Not regulated as dangerous goods
<b>MEX</b>	Not regulated as dangerous goods

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**15. REGULATORY INFORMATION**

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**OSHA Hazards**

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**Warning!**

**GHS Classification**

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Eye irritation (Category 2A)  
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**International Inventories**

TSCA (8a) PAIR -  
EINECS/ELINCS -  
ENCS -  
IECSC -  
KECL -  
PICCS -  
AICS -  
NZIoC -

**U.S. Federal Regulations**

**SARA 302/304/311/312 hazardous chemicals:** See individual kit component MSDS documents.

**SARA 311/312 MSDS Distribution:** See individual kit component MSDS documents.

**U.S. State Regulations** See individual kit component MSDS documents.

Massachusetts Right-to-Know	No components are listed.	
Pennsylvania Right-to-Know	Chelerythrine Chloride	CAS# 3895-92-9
New Jersey Right-to-Know	Chelerythrine Chloride	CAS# 3895-92-9

**California Prop 65 Components**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects or any other reproductive harm.

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16. OTHER INFORMATION

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**Revision date** 2012-12-20

**Disclaimer**

The information provided on this material safety data sheet is 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 Material Safety Data Sheet