

## SAFETY DATA SHEET

Preparation Date: 11/10/2017

Revision Date: 11/10/2017

Revision Number: G1

### 1. IDENTIFICATION

#### Product identifier

**Product code:** E-160  
**Product Name:** ERIOCHROME BLACK T, 0.5 PERCENT (W/W) IN NACL, POWDER MIXTURE, FOR WATER HARDNESS, APHA

#### Other means of identification

**Synonyms:** No information available  
**CAS #:** Mixture  
**RTECS #** Not available  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)  
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label elements

Not classified

#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Sodium Chloride	7647-14-5	99.5
Eriochrome Black T	1787-61-7	0.5

### 4. FIRST AID MEASURES

#### First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.
- Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.
- Eye Contact:** Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
- Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

#### Most important symptoms and effects, both acute and delayed

- Symptoms**
- May cause eye/skin irritation
  - Thirst
  - Dehydration
  - May affect the cardiovascular system
  - Central nervous system effects
  - May cause abdominal pain, nausea, vomiting, diarrhea

#### Indication of any immediate medical attention and special treatment needed

- Notes to Physician:** Treat symptomatically.

#### Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

- Suitable Extinguishing Media:** The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.
- Unsuitable Extinguishing Media:** No information available.

#### Specific hazards arising from the chemical

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**Hazardous Combustion Products:** No information available.

**Specific hazards:** No information available.

### **Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment 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, protective equipment and emergency procedures**

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation.

**Environmental precautions** Prevent further leakage or spillage.

### **Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### **Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice.

### **Conditions for safe storage, including any incompatibilities**

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### **Incompatible Materials:**

Strong oxidizing agents  
Strong acids  
Metals

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

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## National occupational exposure limits

### United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium Chloride	7647-14-5	None	None	None	None
Eriochrome Black T	1787-61-7	None	None	None	None

### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sodium Chloride	7647-14-5	None	None	None	None
Eriochrome Black T	1787-61-7	None	None	None	None

### Australia and Mexico

Components	CAS-No.	Australia	Mexico
Sodium Chloride	7647-14-5	None	None
Eriochrome Black T	1787-61-7	None	None

## Appropriate engineering controls

### Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

## Individual protection measures, such as personal protective equipment

### Personal Protective Equipment

#### Eye protection:

Safety glasses Safety glasses with side-shields

#### Skin and body protection:

Long sleeved clothing  
Chemical resistant apron  
Gloves

#### Respiratory protection:

No personal respiratory protective equipment normally required. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

#### Hygiene measures:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Physical state:

Solid

#### Appearance:

Crystalline powder.

#### Color:

Purple.

#### Odor:

No information available.

#### Taste

Saline.

#### Formula:

No information available

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<b>Molecular/Formula weight:</b> No information available	<b>Flammability:</b> No information available	<b>Flashpoint (°C/°F):</b> No information available.
<b>Flash Point Tested according to:</b> Not available	<b>Autoignition Temperature (°C/°F):</b> No information available	<b>Lower Explosion Limit (%):</b> No information available
<b>Upper Explosion Limit (%):</b> No information available	<b>Melting point/range(°C/°F):</b> 801°C/1473 °F	<b>Decomposition temperature(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> 1413 °C/2575.4 °F	<b>Bulk density:</b> No information available	<b>Density (g/cm3):</b> No information available
<b>Specific gravity:</b> 2.165	<b>pH:</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> No information available
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> Freely soluble in water Soluble in Glycerol Very slightly soluble in Ethanol Insoluble in Hydrochloric acid	

## 10. STABILITY AND REACTIVITY

### Reactivity

For Sodium Chloride:

Reactive with oxidizing agents

Reactive with metals

Reactive with acids

Reacts with most nonnoble metals such as iron or steel, building materials (such as cement)

Sodium chloride is rapidly attacked by bromine trifluoride.

Violent reaction with lithium.

Electrolysis of sodium chloride in presence of nitrogenous compounds to produce chlorine may lead to formation of explosive nitrogen trichloride.

Potentially explosive reaction with dichloromaleic anhydride + urea.

### Chemical stability

**Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Avoid dust formation. Incompatible materials.

**Incompatible Materials:** Strong oxidizing agents  
Strong acids  
Metals

**Hazardous decomposition products:** No information available.

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**Other Information**

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Principal Routes of Exposure:**

Ingestion. Inhalation.

**Acute Toxicity**

**Component Information**

Sodium Chloride	
CAS-No.	7647-14-5

**LD50/oral/rat** = 3 g/kg Oral LD50 Rat  
**LD50/oral/mouse** = 4 g/kg  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = 42 g/m<sup>3</sup> Inhalation LC50 Rat 1 h  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = No information available

Eriochrome Black T	
CAS-No.	1787-61-7

**LD50/oral/rat** = 17590 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = No information available  
**LD50/dermal/rabbit** = No information available  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = No information available  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50information** = No information available

**Product Information**

**LD50/oral/rat** =  
**VALUE- Acute Tox Oral** = 3000 mg/kg

**LD50/oral/mouse** =  
**Value - Acute Tox Oral** = 4000 mg/kg

**LD50/dermal/rabbit**  
**VALUE-Acute Tox Dermal** = No information available

**LD50/dermal/rat**  
**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**  
**VALUE-Vapor** = No information available  
**VALUE-Gas** = No information available  
**VALUE-Dust/Mist** = 42000 mg/m<sup>3</sup> (1-hr)

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**LC50/Inhalation/mouse**

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

**Symptoms****Skin Contact:** May cause skin irritation.**Eye Contact:** May cause eye irritation. Slight to moderate transient eye irritation.**Inhalation** May cause irritation of respiratory tract.**Ingestion** Ingestion of large quantities can irritate the stomach (as in overuse of salt tablets). May cause abdominal pain, nausea, vomiting, diarrhea. May cause dehydration. May cause thirst. May affect the cardiovascular system (hypotension or hypertension, tachycardia). May affect metabolism (changes in sodium level). May increase sodium levels. May affect behavior/central nervous system (muscle spasticity/contraction, somnolence, headache, irritability, restlessness, dizziness, convulsions/seizures, coma).**Aspiration hazard** No information available.**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Chronic Toxicity** No information available.**Sensitization:** No information available.**Mutagenic Effects:** For Sodium Chloride:  
May affect genetic material  
Mutagenic effects in mammalian somatic cells  
Mutations in microorganisms**Carcinogenic effects:** No information available.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sodium Chloride	7647-14-5	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed
Eriochrome Black T	1787-61-7	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

*ACGIH (American Conference of Governmental Industrial Hygienists)**IARC (International Agency for Research on Cancer)**NTP (National Toxicology Program)**OSHA (Occupational Safety and Health Administration of the US Department of Labor)***Reproductive toxicity** No data is available**Reproductive Effects:** No information available**Developmental Effects:** No information available**Teratogenic Effects:** No information available**Specific Target Organ Toxicity****Product code:** E-160**Product name:** ERIOCHROME  
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STOT - single exposure No information available.  
 STOT - repeated exposure No information available.  
 Target Organs: No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

**Ecotoxicity effects:** Aquatic environment.

*Sodium Chloride - 7647-14-5*

**Freshwater Fish Species Data:** 4747 - 7824 mg/L LC50 Oncorhynchus mykiss 96 h flow-through 1  
 5560 - 6080 mg/L LC50 Lepomis macrochirus 96 h flow-through 1  
 6020 - 7070 mg/L LC50 Pimephales promelas 96 h static 1  
 6420 - 6700 mg/L LC50 Pimephales promelas 96 h static 1  
 12946 mg/L LC50 Lepomis macrochirus 96 h static 1  
 7050 mg/L LC50 Pimephales promelas 96 h semi-static 1  
**Water Flea Data:** 340.7 - 469.2 mg/L EC50 Daphnia magna 48 h  
 1000 mg/L EC50 Daphnia magna 48 h

*Eriochrome Black T - 1787-61-7*

**Freshwater Algae Data:** 0.094 mg/L EC50 Desmodesmus subspicatus 72 h  
**Freshwater Fish Species Data:** 12.3 mg/L LC50 Brachydanio rerio 96 h static 1  
 6 mg/L LC50 Pimephales promelas 96 h static 1  
 7.3 mg/L LC50 Oncorhynchus mykiss 96 h static 1  
**Water Flea Data:** 41.3 mg/L EC50 Daphnia magna 48 h

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

## 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

**Waste from residues / unused products:**  
 Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**  
 Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium Chloride	7647-14-5	None	None	None	None
Eriochrome Black T	1787-61-7	None	None	None	None

## 14. TRANSPORT INFORMATION

DOT

**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Class:** No information available

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**Packing group:** No information available  
**Emergency Response Guide Number:** No information available  
**Marine Pollutant DOT RQ (lbs):** No data available  
**Special Provisions:** No information available  
**Symbol(s):** No information available  
**Description:** No information available

**TDG (Canada)**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Marine Pollutant Description:** No information available

**ADR**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Packing Group:** No information available  
**Subsidiary Risk:** No information available

**IMO / IMDG**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**Marine Pollutant Description:** No information available

**RID**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

**ICAO**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available

**IATA**  
**UN-No:** Not Regulated  
**Proper Shipping Name:** No information available  
**Hazard Class:** No information available  
**Subsidiary Risk:** No information available  
**Packing Group:** No information available  
**ERG Code:** No information available  
**Special Provisions:** No information available

<b>15. REGULATORY INFORMATION</b>
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## International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sodium Chloride	7647-14-5	Present	Present KE-31387	Present	Present (1)-236	Present	Present	Present 231-598-3
Eriochrome Black T	1787-61-7	Present	Present KE-31496	Present	Present (5)-2113	Present	Present	Present 217-250-3

## U.S. Regulations

### Sodium Chloride

**FDA - Food Additives Generally Recognized as Safe (GRAS):** 21 CFR 182.70 21 CFR 182.90

**FDA - 21 CFR - Total Food Additives** 100.155 101.22 101.61 131.111 131.112 131.160 131.162 131.170 133.106 133.113  
133.121 133.123 133.124 133.127 133.129 133.133 133.136 133.138 133.141  
133.147 133.150 133.153 133.155 133.156 133.162 133.165 133.169 133.173  
133.179 133.181 133.182 133.183 133.184 133.186 133.187 133.188 133.189  
133.190 133.195 136.110 137.180 139.110 139.150 145.110 145.130 150.110  
155.120 155.130 155.190 155.191 155.194 155.200 155.201 155.3 156.145 156.3  
158.170 161.130 161.145 161.170 161.173 161.190 163.111 163.112 163.113  
163.123 163.130 166.110 168.130 168.140 168.160 168.180 169.115 169.140  
169.150 172.177 172.430 172.490 172.840 172.861 182.1 182.70 182.90

### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Sodium Chloride	7647-14-5	Not Listed	Not Listed	Not Listed	Not Listed
Eriochrome Black T	1787-61-7	Not Listed	Not Listed	Not Listed	Not Listed

## CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Sodium Chloride	7647-14-5	None	None	None	None	None
Eriochrome Black T	1787-61-7	None	None	None	None	None

## U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sodium Chloride	7647-14-5	Not Applicable	Not Applicable
Eriochrome Black T	1787-61-7	Not Applicable	Not Applicable

## Canada

### WHIMIS 2015 - GHS Classifications

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WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

**WHMIS 1988 Hazard Class**  
Non-controlled

**Components**  
**Sodium Chloride**

WHMIS 1988  
Uncontrolled product according to WHMIS classification criteria

**Eriochrome Black T**

Uncontrolled product according to WHMIS classification criteria

**Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

**Inventory**

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Sodium Chloride	7647-14-5	Present	Not Listed
Eriochrome Black T	1787-61-7	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Sodium Chloride	7647-14-5	Not listed
Eriochrome Black T	1787-61-7	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Sodium Chloride	7647-14-5	Not listed
Eriochrome Black T	1787-61-7	Not listed

**EU Classification**

**EU GHS - SV - CLP 1272/2008**

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Sodium Chloride	7647-14-5	
Eriochrome Black T	1787-61-7	

**EU - CLP (1272/2008)**

**R-phrase(s)**

not determined (not applicable)

**S -phrase(s)**

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Sodium Chloride	7647-14-5		No information	
Eriochrome Black T	1787-61-7		No information	

**The product is classified in accordance with Annex VI to Directive 67/548/EEC**

**Indication of danger:**

**Product code:** E-160

**Product name:** ERIOCHROME BLACK T, 0.5 PERCENT (W/W) IN NaCl, POWDER MIXTURE, FOR WATER HARDNESS, APHA

Not dangerous

## 16. OTHER INFORMATION

**Preparation Date:** 11/10/2017  
**Revision Date:** 11/10/2017  
**Prepared by:** Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**