



## Material Safety Data Sheet

### SECTION 1: PRODUCT NAME AND COMPANY INFORMATION

**Product Name:** Photochromic Tempering Salt (Sodium Nitrate)  
**Product Number:** 8235200  
**Issue Date:** May 25, 2011  
**Manufactured By:**

**Supersedes Date:** August 26, 2009  
**Distributed By:**  
 Coburn Technologies  
 55 Gerber Road East  
 South Windsor, CT 06074

Telephone: (800) 262-8761

**24-Hour Emergency Contact Number (North America):** 800-255-3924  
**24-Hour Emergency Contact Number (International):** 813-248-0585

### SECTION 2: Product Classification

**Product Classification:**

**Product Name:** Sodium Nitrate  
**Chemical Name:** Sodium Nitrate  
**Chemical Family:** Nitrates

**Synonyms:** Soda Niter, Chile Saltpeter  
**Formula:** NaNO<sub>3</sub>  
**CAS Number:** 7631-99-4

### SECTION 3: Physical Properties

**Physical Form:** Pills, powder or crystals  
**Boiling Point:** 380° C (decomposes)  
**Specific Gravity:** 2.26 (H<sub>2</sub>O=1)

**Color:** White  
**Melting Point:** 306.8° C  
**Vapor Pressure:** N/A  
**Vapor Density:** N/A

### SECTION 4: Hazardous Ingredients

Ingredient	CAS Number	Concentration (%)	Exposure Limits
Sodium Nitrate	7631-99-4	98.0 Industrial	TLV (ACGIH) not established
		99.0 Technical	PEL (OSHA) not established
		99.4 Refined	

### SECTION 5: Fire and Explosion Data:

**Fire and Explosion Data:**

**Flash Point:** N/A **Auto-Ignition Temperature:** N/A  
**Flammable Limits:** LEL: N/A, UEL: N/A **Extinguishing Media:**

**Extinguishing Media:**

Small fires: Dry chemical, CO<sub>2</sub>, Water spray or foam  
 Large fires: Water spray, fog or foam

**Special Fire Fighting Procedures:**

Remove containers from fire if possible without risk. Cool containers exposed to flames with water. Use NIOSH/MSHA approved self-contained breathing apparatus where this material is involved in a fire.

**Unusual Fire / Explosion Hazards:**

This material is an oxidizer. Keep away from reducing agents as it will explode if heated to 1000° F in presence of reducing agents, organic materials or mixed with cyanides. Yields gaseous oxides when heated above melting point (306.8° C).

**SECTION 6: Human Health Data:**

**Route(s) of Entry:** Eyes, Inhalation, Ingestion

**Human Effects and Symptoms of Overexposure:**

**Acute Effects:** Toxic by ingestion, content in cured meats, fish and other food products restricted.

**Chronic Effects of Exposure:**

Not applicable

**Carcinogenicity:** Sodium Nitrate has not been directly implicated as a carcinogen. A constant oral intake of nitrate containing foods or water could lead to formation of carcinogenic N-Nitroso Coumpounds.

**Medical Conditions Aggravated by Exposure:** None

**SECTION 7: Emergency and First Aid Procedures**

**First Aid for Eyes:** Flush with water

**First Aid for Skin:** Not necessary but washing with soap and water is recommended.

**First Aid for Inhalation:** Remove victim to fresh air.

**First Aid for Ingestion:** Drink water, induce vomiting by sticking finger down throat. Call a physician.

**SECTION 8: Employee Protection Recommendations:**

**Eye Protection:** Goggles or at minimum safety glasses with side shields.

**Skin Protection:** Not necessary, but general work gloves are recommended.

**Respiratory Requirements:** NIOSH/MSHA approved dust type respirator

**Ventilation:** Mechanical (general)

**Additional Protective Measures:** None

**SECTION 9: Reactivity Data:**

**Stability:** Stable

**Hazardous Polymerization:** Will Not Occur

**Incompatibilities:** Avoid contact with reducing agents and flammable or combustible materials.

**Conditions to Avoid:** Store away from reducing agents and liquids with low flash points.

**Decomposition Products:** Produces oxides of nitrogen

**SECTION 10: Spill and Leak Procedure:**

**Spill or Leak Procedures:** Sweep or shovel up spilled material.

**Waste Disposal Method:** Sanitary landfill in accordance with local, state and federal regulations.

**SECTION 11: Special Precautions and Storage Data:**

<b>Storage Temperature (Min/Max)</b>	Ambient / Ambient
<b>Special Sensitivity:</b>	Store away from reducing agents, flammable or combustible materials and liquids of low flash points.
<b>Shelf Life:</b>	Indefinite when stored properly
<b>Handling / Storage Precautions:</b>	Wood and empty paper bags used to hold this product should be removed from the premises.

**SECTION 12: Shipping Information:**

**Proper Shipping Name:** Sodium Nitrate **Hazard Class or Division:** 5.1  
**UN / NA Number:** UN1498 **Packaging Group:** III  
**DOT Product RQ lbs. (kg):** None **Hazard Label(s):** Oxidizer  
**Hazard Placard:** Oxidizer **Subsidiary Placard:** None

**SECTION 13: Toxicity Data:**

**Acute Oral LD50:** 4.3 G/KG (Rats)  
**Acute Dermal LD50:** Not Determined  
**Acute Inhalation LC50:** Not Determined  
**Mutagenic:** Not know to be mutagenic  
**Effects of Chronic Exposure:** None expected at industrial use levels.

**SECTION 14: Other Information:**

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