

SAFETY DATA SHEET

Current Revision: 3, 6/8/2015	Prepared By: Ben Ward, Product Engineer
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I. IDENTIFICATION

EMERGENCY PHONE: CHEMTREC- (800) 424-9300 CCN 19481	Salem Fabrication Supplies 5901 Gun Club Road Winston-Salem, NC 27103 Information: (800) 234-1982
PRODUCT NAME: Photo Salt	
SYNONYMS: Sodium Nitrate/Potassium Nitrate/Silicic Acid	

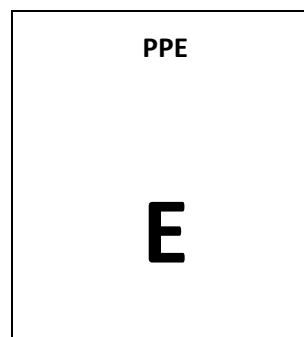
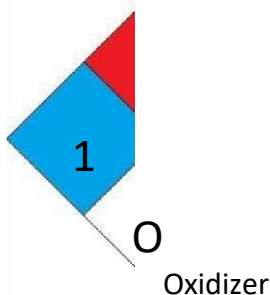
Recommended Use:

Industrial tempering salt for photochromic glass. **Restrictions:**
 Do not eat or drink. Keep away from children.

II. HAZARD IDENTIFICATION

Classification (§1910.1200):

Signal Word/Symbols:



GO BEYOND THE EDGE

NORTH CAROLINA – HQ

5901 Gun Club Road
 Winston-Salem, NC 27103
Office: 800.234.1982 | 336.766.1104

CALIFORNIA

10125 Shoemaker Avenue
 Santa Fe Springs, CA 90670
Office: 800.445.6339 | 562.944.6155

PENNSYLVANIA

2330 Greensburg Road
 New Kensington, PA 15068
Office: 724.212.3749

WASHINGTON

3801 NE 109th Ave, Suite C
 Vancouver, WA 98682
Office: 360.993.5644

ONTARIO – CANADA

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Office: 844.858.7444
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Hazard Statement:

May cause irritation eye, skin, and lung irritation. May be harmful if swallowed. If decomposed this product gives off toxic, gaseous oxides. **Precautionary Statement:**

Do not eat, breathe, or swallow. Keep away from food products and children. Keep away from high heat, sparks, and open flame. Wash after handling and wear appropriate safety gear. Read Label before use. **Miscellaneous Hazards:**

N/A

Unknown Acute Toxicity Statement:

N/A

III. COMPOSITION

CHEMICAL NAME:	COMMON NAMES:	CAS:	% BY WEIGHT:
Potassium Nitrate	Saltpeter, nitrate or potash	7757-79-1	59.75
Sodium Nitrate	Chile saltpeter, nitrate of soda, nitratine, caliche, or soda niter	7631-99-4	39.75
Silicic Acid	Monosilicic acid or orthosilicic acid	7631-86-9	0.5

Classified Impurities and Additives:

N/A

IV. FIRST AID MEASURES

Inhalation:

Bring to fresh air. Seek medical attention if irritation occurs. **Skin**

Contact:

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Flush with large amount of water. If irritation persists seek medical help. **Eye**

Contact:

Flush with water for 15 minutes. If irritation persists seek medical help. **Ingestion:**

Drink large amount of water to dilute and seek medical help immediately.

Symptoms/Effects:

Eye, skin, lung, and mucus membrane irritation. **Level**

Of Medical Attention Needed:

Contact physician if irritation develops.

V. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water spray, do not use direct stream as it may scatter material. Dry chemical, CO₂, or foam.

Unsuitable Extinguishing Media:

None known **Specific Hazards:**

May cause spontaneous reaction if exposed to high heat or exposed to materials easily catalyzed by reducing agents, organic materials, and cyanides. **Special Protective**

Equipment:

Use self-contained breathing apparatus and other suitable firefighting protective equipment. Use dust impervious suit if necessary.

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Do not inhale or expose to eyes, skin, mouth, and lungs. Stay away from dusty conditions.

Protective Equipment:

Respirator, gloves, chemical goggles, and protective clothing. **Emergency**

Procedures:

If hazardous conditions develop contact local emergency operators. **Methods**

for Cleanup/Removal:

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Recover dry if necessary. Do not return to uncontaminated storage. Keep sealed and out of dust inducing conditions.

VII. HANDLING AND STORAGE

Handling Precautions:

Keep away from skin, eyes, mouth, and lungs. Avoid dusty areas. **Safe**

Storage Conditions:

Keep away from flammable materials. Store and seal to reduce dust development..

Incompatibilities:

Reducing agents and oxidizers. High heat and flammable materials.

VIII. EXPOSURE CONTROLS AND PROTECTIVE EQUIPMENT

OSHA PEL:	ACGIH TLV:	OTHER EXPOSURE LIMITS:
Silicic Acid: 80mg/m ³	Silicic Acid: 10mg/m ³	N/A

Appropriate Engineering Controls:

Use local exhaust to minimize inhalation. **Personal**

Protective Measures:

Use respiratory mask, rubber gloves, and chemical safety glasses. Keep skin covered.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

White crystal

Odor: Slight	Odor Threshold: N/A	Ph: N/A
Melting/Freezing Point: 337 °C (639 °F)	Boiling Point: N/A	Boiling Range: N/A

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Flash Point: N/A	Evaporation Rate: N/A	Flammability (Solid, Gas): N/A
Upper/Lower Flammability/Explosive Limit: N/A	Vapor Pressure: N/A	Vapor Density: N/A
Relative Density: 600 kg/m ³	Solubility (ies): Water	Partition Coefficient: NOctanol/Water: N/A
Auto Ignition Temperature: 1000 °C (1832 °F)	Decomposition Temperature: 400 °C (752 °F)	Viscosity: N/A (Solid)

X. STABILITY AND REACTIVITY

Reactivity:

Hazardous polymerization will not occur **Chemical Stability:**

Stable in storage under normal conditions **Possibility of**

Hazardous Reactions:

Reducing agents and oxidizers.

Conditions to Avoid: Static Discharge, Shock, Vibrations, Etc.

Avoid exposure to reducing agents as they may detonate with heat or shock. **Incompatible**

Materials:

Reducing agents and oxidizers

Hazardous Decomposition Products:

Toxic, nitrous oxide, sodium oxide, potassium nitrate, and potassium oxide

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XI. TOXICOLOGICAL INFORMATION

Possible Exposure Routes (Inhalation Etc.):

Inhalation, skin contact, swallowing, and eye contact **Symptoms Related**

To Toxicological Characteristics:

Irritation and redness

Delayed, Immediate, and Chronic Effects:

May be harmful by ingestion - forms methemoglobin which can cause cyanosis. Onset of cyanosis may be up to 4 hours after exposure. May cause skin and eye irritation. May be absorbed through the skin or inhaled. **Numerical Toxicity Measurements:**

Oral LD₅₀ 2g/kg (rat) is typical

NTP/LARC/OSHA Known Carcinogen: Not a known carcinogen

XII. ECOLOGICAL INFORMATION

Ecotoxicity:

96Hr LC 50 1378 mg/L Poecillia Reticulata (fresh water fish) for potassium nitrate component.

Persistence and Degradability:

Degrades into potassium ions, sodium ions and nitrate ions. **Bioaccumulative**

Potential:

Low

Soil Mobility:

N/A

Other Adverse Effects:

N/A

XIII. DISPOSAL CONSIDERATIONS

Waste Residue and Disposal:

Dispose of contents/container in accordance with local/national/international regulations (P501).

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XIV. TRANSPORT INFORMATION

UN Number: 1499	UN Proper Shipping Name: Sodium Nitrate, Potassium Nitrate, and Silicic Acid Mixture	Transport Hazard Class (es): Oxidizer
Packing Group: 3	Environmental Hazards: Marine pollutant	Transport in Bulk (Annex LI MARPOL 73/78 and IBC Code) N/A

Special Precautions:

Keep away from heat, no smoking.

XV. REGULATORY INFORMATION

Environmental/ Health/ Safety:

EC 1907/2006, 1272/2008, 453/2010

XVI. OTHER INFORMATION

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Salem Fabrication Supplies. It relates only to the specific material designated herein, and does not relate to use in combination with any other material or in any process. Salem Fabrication Supplies assumes no legal responsibility for use of or reliance upon this information.

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