

I Identification

Product Name: **Potassium Nitrate**

Catalog Number: **P012**

Synonyms: **Nitric Acid; Potassium Salt**

Company: **Caisson Laboratories**

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Emergency Contact: **CHEMTREC 800.424.9300 (703.527.3887)**

Recommended Use: **For research and laboratory use only.**

Restrictions On Use: **This product is intended for research and laboratory use only. This product is not to be used as human or animal therapeutics, cosmetics, agricultural or pesticidal products, food additives, or as household chemicals.**

II Hazard(s) Identification

Overview:

Flammability:

Reactivity: **No data available**

Toxicity:

NFPA Rating

Health: **0**

Flammability: **0**

Reactivity: **1**

Special: **OX**

Pictograms:



III Composition / Information on Ingredients

General Information:

Component:

CAS#: **7757-79-1**

% by Weight:

IV First-Aid Measures

General Information: **Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.**

Route of Exposure

Oral: **If swallowed, wash out mouth with water. Never give anything by mouth to an unconscious person. Get medical attention.**

Inhalation: **Safely remove victim to fresh air. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Get medical attention.**

Dermal: **Wash area thoroughly with soap and water. Remove and wash contaminated clothing. Get medical attention if irritation persists.**

Eye: **In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Get medical attention.**

V Fire-Fighting Measures

General Information:

Flammable Properties

General:

Flash Point: **No data available**

Ignition Temperature: **No data available**

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

Special Protective Equipment for fire fighters: **Wear self-contained breathing apparatus and protective clothing.**

Additional Information: **Use water spray to cool unopened containers.**

VI Accidental Release Measures

General Information:

VII Handling and Storage

Handling: **Avoid contact with skin and eyes. Avoid dust formation and aerosols. Avoid incompatible substances. Keep away from combustible materials. Keep away from heat and sources of ignition. No smoking. Wash thoroughly after use.**

Storage: **Keep in a tightly closed container and store in a cool, dry, and well-ventilated area. Protect from moisture. Product is hygroscopic.**

VIII Exposure Controls / Personal Protection

General Information:

Engineering Measures: **Handle in accordance to general industrial hygiene and safety practice.**

Personal Protective Equipment

General:

Eye Protection: **Wear chemical safety glasses or goggles. Have eye-washing facilities readily available where eye contact can occur.**

Hand Protection: **Wear protective gloves.**

Respiratory Protection: **Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).**

Skin and Body Protection: **Wear lab coat, gown, or coveralls to protect from exposure.**

Hygiene Measures:

IX Physical and Chemical Properties

General Information:

Appearance: **White Crystalline Solid**

pH:

Specific Gravity: **2.10**

Melting Point:

Boiling Point: **No data available**

Flash Point: **No data available**

Flammability Range: **No data available**

Vapor Pressure: **No data available**

X Stability and Reactivity

General Information:

Storage Stability

Temperature: **Room Temperature**

Light Sensitive: **False**

Incompatibles: **Strong reducing agents, Powdered metals, Strong acids, Organic materials**

Hazardous Decomposition Products: **Nitrogen oxides (NOx), Potassium oxides**

XI Toxicological Information

General Information:

Acute Toxicity: **LD₅₀, Oral - Rat: 3,750 mg/kg**

LC₅₀, Inhalation - Rat: > 0.527 mg/L - 4 h

LD₅₀, Dermal - Rat: > 5,000 mg/kg

Chronic Toxicity:

Local Effects:

Target Organs: **No data available**

Carcinogenicity: **No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.**

OSHA Permissible Exposure Limits: **No data available**

XII Ecological Information

General Information:

XIII Disposal Considerations

General Information:

Disposal of Product: **Dispose in accordance with all applicable federal, state, and local environmental regulations.**

Disposal of Packaging: **Dispose of as unused product.**

XIV Transport Information

Proper Shipping Name: **POTASSIUM NITRATE**

UN#: **1486**

Class: **5.1**

Packaging Group: **III**

Hazard Label: **Oxidizer**

XV Regulatory Information

General Information:

TSCA:

SARA 313:

XVI Other Information

General Information: **All chemicals may pose unknown hazards and should be used with caution. 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, Caisson Laboratories, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.**