

# SAFETY DATA SHEET

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## SECTION 1. IDENTIFICATION

**Product Identifier:** (5N) 99.999% Sodium Nitrate Solution

**Product Code:** NA-NAT-05-SOL

**CAS Number:** 7631-99-4

**Relevant identified uses of the substance:** Scientific research and development

Supplier details:

American Elements  
10884 Weyburn Ave.  
Los Angeles, CA 90024  
Tel: +1 310-208-0551  
Fax: +1 310-208-0351  
Emergency telephone number:  
+1 800-424-9300

## SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Acute toxicity (oral, dermal, inhalation), category 4

Oxidizing liquids, category 3

Acute hazards to the aquatic environment, category 2

Pictograms



Hazard statements:

May intensify fire; oxidizer.

Harmful if swallowed.

Very toxic to aquatic life.

Precautionary statements:

If medical advice is needed, have product container or label at hand.

Read label before use.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Take any precaution to avoid mixing with combustibles.

Avoid release to the environment.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Rinse mouth.

IF ON SKIN: Wash with soap and water.

Dispose of contents and container to an approved waste disposal plant.

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## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients:

CAS 7732-18-5 Deionized Water

CAS 7631-99-4 Sodium Nitrate

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## **SECTION 4. FIRST AID MEASURES**

Description of first aid measures

If inhaled:

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists.

In case of skin contact:

Wash affected area with soap and water. Rinse thoroughly. Seek medical attention if irritation, discomfort or vomiting persists.

In case of eye contact:

Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

If swallowed:

Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Irritation. Nausea. Headache. Shortness of breath.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

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## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable extinguishing media:

If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

Unsuitable extinguishing media: None

Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors.

Advice for firefighters:

Protective equipment: None

Additional information (precautions):

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat.

Stop the spill, if possible. Contain spilled material by diking or using inert absorbent. Transfer to a disposal or recovery container.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13.

Methods and material for containment and cleanup:

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor.

Reference to other sections: None

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## **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling:

Prevent formation of aerosols. Follow good hygiene procedures when handling chemical materials. Do not eat, drink, smoke, or use personal products when handling chemical substances. If in a laboratory setting, follow

Chemical Hygiene Plan. Use only in well ventilated areas. Avoid splashes or spray in enclosed areas.

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well-sealed containers. Keep container tightly sealed

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

Control Parameters:

No applicable occupational exposure limits.

Appropriate Engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Respiratory protection:

Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable.

Protection of skin:

The glove material has to be impermeable and resistant to the product/the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Eye protection:

Safety glasses with side shields or goggles.

General hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources.

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end

of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color): Clear, colorless liquid

Explosion limit lower: 0 Vol %

Explosion limit upper: 0 Vol %

Odor: Odorless

Vapor pressure: 14mmHg @ 20C

Odor threshold: No data available.

Vapor density: 0.62 (Air = 1)

pH: Alkaline

Relative density: 1 (Water = 1)

Melting/Freezing point: 0 °C (32 °F)

Solubilities: Soluble in water.

Boiling point/range: 100°C (212°F)

Partition coefficient (n-octanol/water): No data available.

Flash point (closed cup): N/A

Auto/Self-ignition temperature: No data available.

Evaporation rate: No data available.

Decomposition temperature: No data available.

Flammability(solid,gaseous): N/A

Viscosity:

a. Kinematic: No data available.

b. Dynamic: 0.952 mPas at 20°C (68 °F)

Density: 1 g/cm<sup>3</sup> (8.345 lbs/gal) at 20 °C (68 °F)

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## SECTION 10. STABILITY AND REACTIVITY

Reactivity: None

Chemical stability: No decomposition if used and stored according to specifications.

Possible hazardous reactions: None

Conditions to avoid: Store away from oxidizing agents, strong acids or bases.

Incompatible materials: Strong acids. Strong bases.

Hazardous decomposition products: Carbon oxides (CO, CO<sub>2</sub>).

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## SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral:

1267 mg/kg LD50 Rat

Chronic Toxicity: No additional information.

Corrosion Irritation: No additional information.

Sensitization: No additional information.

Single Target Organ (STOT): No additional information.

Numerical Measures: No additional information.

Carcinogenicity: No additional information.

Mutagenicity: No additional information.

Reproductive Toxicity: No additional information.

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## SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: None

Persistence and degradability: Readily degradable in the environment.

Bioaccumulative potential: None

Mobility in soil: Aqueous solution has high mobility in soil.

Other adverse effects: None

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## SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal recommendations:

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

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## SECTION 14. TRANSPORT INFORMATION

UN-Number: Not Regulated

UN proper shipping name: Not Regulated

Transport hazard class(es): None

Packing group: Not Regulated

Environmental hazard: None

Transport in bulk: Not Applicable

Special precautions for user: None

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## SECTION 15. REGULATORY INFORMATION

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

None of the ingredients are listed.

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

RCRA (hazardous waste code):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

None of the ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

1310-73-2 Sodium Hydroxide 1,000 lbs.

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

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## **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.