



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. PP 661
Effective Date April 20, 1999

SECTION V HEALTH HAZARD DATA

PP 661

Threshold Limited Value

None established for this solution. (ACGIH 1992-93).
Toxicity: orl rat LD₅₀ 3750 mg/kg. (Potassium Nitrate).

Effects of Overexposure

EYES AND SKIN: Mildly irritating on contact to skin, eyes and mucous membranes. **INGESTION:** Prolonged ingestion to small amounts of Potassium Nitrate may produce anemia, methemoglobinemia, nephritis.

Emergency and First Aid Procedures

INGESTION: If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call physician. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for 15 minutes, lifting upper and lower eyelids occasionally. If irritation should develop, get medical attention. **SKIN:** Flush skin with water, then wash with soap and water. **INHALATION AS MIST:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature to cause evaporation.
	Stable	X		

Incompatibility (Materials to Avoid)	Easily oxidizable materials.
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Hazardous Decomposition Products	Thermal decomposition yields oxides of nitrogen (NO _x).
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Hazardous Polymerization	Conditions to Avoid	Not applicable.
May Occur	Will Not Occur	
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Flush down drain with copious amounts of water. Wash spill area thoroughly with soap and water.
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Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.
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Flush the aqueous solution down drain with plenty of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None needed in normal laboratory handling. If misty condition prevail, work in ventilation hood or wear a NIOSH/MSHA approved dust mask or respirator.		
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Ventilation	Local Exhaust	None needed.	Special	No.
	Mechanical (General)	None needed.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical Safety Glasses
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Other Protective Equipment	Lab coat, eye wash station, proper gloves, apron.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool place away from easily oxidizable materials and fire hazards. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision No. 2	Date 4/20/99	Approved Michael Raszeja	Chemical Safety Coordinator	MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	POTASSIUM NITRATE 0.1 MOLAR SOL'N	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * Health 1 Fire 0 Reactivity 1
Chemical Synonyms	Potassium Nitrate, Aqueous Solution	
Formula	Mixture	
Unit Size	up to 3.785 Lt.	
C.A.S. No.	Mixture	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Nitrate: (CAS No. 7757-79-1)	1.01%	See Section V.
Water: (CAS No. 7732-18-5)	98.99%	None established.

CAUTION! MAY BE HARMFUL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H ₂ O = 1)	Approx. 1.1
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	98.99%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Water = 1)	< 1
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, water white, water like liquid; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
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Extinguisher Media	Use any media suitable for extinguishing supporting fire.
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SPECIAL FIREFIGHTING PROCEDURES

If involved in fire situation, wear a NIOSH/MSHA-approved self-contained breathing apparatus. Use flooding amounts of water in early stages of fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume.

D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20