




**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

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MSDS No. FF 50
Effective Date February 25, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	FEHLING'S SOLUTION (B)	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE 0 1 2 HMIS * HIGH EXTREME 3 4	Health	3
Chemical Synonyms	Fehling's Alkaline Tartrate Solution		Fire	0
Formula	Mixture. See Section II.		Reactivity	2
Unit Size	up to 4 Lt.			
C.A.S. No.	Mixture. See Section II.			

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Potassium Sodium Tartrate: (CAS No. 6381-59-5)	34%	None established.
Potassium Hydroxide: (CAS No. 1310-58-3)	25%	TWA: 2 mg/m ³ Ceiling
Water: (CAS No. 7732-18-5)	41%	None established.

DANGER! CORROSIVE! POISON. CAUSES SEVERE BURNS. MAY BE FATAL IF SWALLOWED.

SECTION III PHYSICAL DATA

Melting Point (°F)	Not applicable.	Specific Gravity (H ₂ O = 1)	Approx. 1.5
Boiling Point (°F)	Approx. 110°C (230°F)	Percent Volatile by Volume (%)	41%
Vapor Pressure (mm Hg)	14 (water)	Evaporation Rate (Ether = 1)	Greater than 1.
Vapor Density (Air=1)	0.7 (water)		
Solubility in Water	Complete.		
Appearance & Odor	Clear, colorless liquid; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable liquid.	Flammable Limits in Air % by Volume	Lower	Upper
		NA	-----	-----
Extinguisher Media	Use any media suitable for extinguishing supporting fire.			

SPECIAL FIREFIGHTING PROCEDURES

If involved in a fire, flood with water, taking care not to splatter or splash. Wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. A severe eye hazard; destroys tissue on contact.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Contact with some metals can generate hydrogen gas (a flammable gas).

SECTION V HEALTH HAZARD DATA

FF 50

Threshold Limited Value

TWA: Potassium Hydroxide [CAS 1310-58-3]: 2 mg/m³ Ceiling.
Toxicity: Oral (Rat) LD50 365 mg/Kg. (ACGIH 1992-93).

Effects of Overexposure

DANGER! CORROSIVE! POISON CAUSES SEVERE BURNS. Avoid contact with skin, eyes, mucous membranes and clothing. Potassium hydroxide is a strong alkali, it can be destructive of all human tissue it contacts; produces severe burns. **EYE OR INHALATION:** Can cause permanent injury.

Emergency and First Aid Procedures

SKIN: Flood with water, then wash with vinegar. **INGESTION:** If swallowed, if conscious, drink large quantities of water. Do NOT induce vomiting. Call physician immediately. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get prompt medical attention. **INHALATION AS MIST:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Stable	Conditions to Avoid	Reacts with carbon dioxide from the air to form potassium carbonate.
		X		

Incompatibility (Materials to Avoid)	Acids and strong oxidizers. Avoid contact with leather, wool, aluminum, tin, zinc and alloys which contain these metals.
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Hazardous Decomposition Products	Thermal decomposition or burning can produce carbon dioxide and/or carbon monoxide.
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Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Neutralize with sodium bisulfate and flush to sewer with copious amounts of water. Follow by flushing spill area with 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. Neutralize with sodium bisulfate and flush to sewer with copious amounts of water.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If misty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved self-contained breathing apparatus.
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Ventilation	Local Exhaust	Not required.	Special	No.
	Mechanical (General)	Not required.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses, goggles, face shield.
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Other Protective Equipment	Goggles, face shield, smock, apron, eye wash station, proper gloves.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool place away from acids or acid fumes or oxidizing agents. Wash thoroughly after handling.
Keep container tightly closed when not in use.	

Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing.
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For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 6	Date	2/25/99	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.

D.O.T. POTASSIUM HYDROXIDE, SOLUTION, 8, UN 1814, PG III

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