




**ALDON
CORPORATION**

MATERIAL SAFETY DATA SHEET

1533 W.Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. EE 59
Effective Date February 23, 1999

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	ERICHROME® BLACK T SOLUTION	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE 0 1 2 HMIS* HIGH EXTREME 3 4	Health	1
Chemical Synonyms	Erichrome® Black T Solution		Fire	3
Formula	Mixture. See Section II.		Reactivity	1
Unit Size	up to 4 Lt.			
C.A.S. No.	1787-61-7 (Erichrome Black T)			

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Erichrome® Black T	1%	None established.
Isopropyl Alcohol, 70%: (CAS No. 67-63-0)	99%	400 (ppm) Skin.
WARNING! FLAMMABLE! MAY BE HARMFUL IF		
SWALLOWED. MAY CAUSE EYE AND SKIN IRRITATION.		

SECTION III PHYSICAL DATA

Melting Point (°F)	Approx. -50°C (-122°F)	Specific Gravity (H ₂ O = 1)	Approx. 0.8
Boiling Point (°F)	85°-100°C (185°-212°F)	Percent Volatile by Volume (%)	100%
Vapor Pressure (mm Hg)	33 mm @ 20°C (Pure)	Evaporation Rate (Butyl Ac. =1)	Greater than 1.
Vapor Density (Air=1)	2.1 (Pure IPA)		
Solubility in Water	Complete.		
Appearance & Odor	Dark blue, mobile liquid; sweet mild odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	21.6°C (71°F) (TOC)	Flammable Limits in Air % by Volume	Lower	Upper
			2.5% @ 26°C	12.1% @ 66°C
Extinguisher Media	"Alcohol Foam"; carbon dioxide (CO ₂); dry chemical (ABC); water spray.			

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 129)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, or ignition sources at locations distant from material handling point. **CAUTION!** Burns with a clear, almost invisible flame, especially hard to see in strong sunlight. Can react vigorously with oxidizing materials.

SECTION V HEALTH HAZARD DATA

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Threshold Limited Value

None established for 70% Isopropyl Alcohol. For Pure Isopropyl Alcohol: TWA - 400 ppm (SKIN); 980 mg/m³ (AIR). Human, oral LDLo 2371 mg/kg.

Effects of Overexposure

INGESTION AND INHALATION: Of large quantities of the vapor may cause flushing, headache, dizziness, mental depression, nausea, vomiting, narcosis, anesthesia, coma. 130 mL. can be fatal. **EYES:** Liquid may cause eye irritation. **SKIN:** Repeated contact may cause irritation and cracking. Exercise appropriate procedures to minimize potential hazards.

Emergency and First Aid Procedures

INHALATION: Remove to fresh air; observe for 30 minutes for intoxication signs. Get medical assistance for serious exposure. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush with water for 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention. **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.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature and heat.
	Stable	X	

Incompatibility (Materials to Avoid)	Strong oxidizing materials can react vigorously with this alcohol.
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Hazardous Decomposition Products	Thermal decomposition or burning will produce carbon dioxide and/or carbon monoxide.
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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	Remove all ignition sources. Provide adequate ventilation. This material is handled and disposed of as a flammable liquid. Absorb small spills on paper; evaporate isopropyl alcohol in an exhaust hood; burn paper after evaporation or flush down sewer with copious amounts of 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. Dispose of in an approved incinerator or contract with a licensed waste disposal service.
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SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory use at room temperature. Work in fume hood.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, lab coat, eye wash station, proper gloves, ventilation hood, fire extinguisher.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from strong oxidizing 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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Avoid contact with skin, eyes and mucous membranes. Remove and wash contaminated clothing.

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

Revision	No.5	Date	2/23/99	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. Isopropyl alcohol, (Solution), 3, UN 1219, PG II

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