

MATERIAL SAFETY DATA SHEET

MSDS No. TX 61
Effective Date July 1, 1986

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	INK-WASHABLE BLACK	<p>CHEMTREC 800-424-9300 Day 716-226-6177 Night 716-334-4222</p>
Chemical Synonyms	Ink- For Chromatography	
Formula	Mixture- See Section II	
Unit(s) Size	30 mL., 100 mL., 500 mL., 1 Lt.	
C.A.S. No.	None assigned.	

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
Contains: Water Solution containing...		
Dimethylethanolamine	Approx. 1%	None established.
Mixture of non-aniline stains and dyes.	Approx. 2%	None established.

WARNING! IRRITATING TO SKIN AND EYES. CAUSES EYE BURNS.

SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes at approx. 0°C.	Specific Gravity (H ₂ O=1)	Approx. 1.05
Boiling Point (°F)	Approx. 100°C.	Percent Volatile by Volume (%)	90%
Vapor Pressure (mm Hg)	14 mm (water)	Evaporation Rate (water = 1)	Equal to 1
Vapor Density (Air = 1)	0.7 (water)		
Solubility in Water	Complete		
Appearance and Odor	Black liquid; slight ammonia odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

SPECIAL FIREFIGHTING PROCEDURES	In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
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UNUSUAL FIRE AND EXPLOSION HAZARDS	Fire or excessive heat may produce hazardous decomposition products of oxides of nitrogen (NO _x) and sulfur (SO _x) as well as hydrogen bromide and hydrogen chloride.
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O.T. NON-REGULATED.

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

SECTION V HEALTH HAZARD DATA

Threshold Limited Value None established for this mixture or component materials (1983-84)
Toxicity Data for dimethylethanolamine: Oral-rat LD₅₀: 2340 mg/Kg.

Effects of Overexposure May be harmful by ingestion, or skin absorption. May cause irritation to skin, eyes and mucous membranes. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated. Exercise appropriate procedures to minimize opportunities for direct contact with the skin or eyes and to prevent inhalation in the form of vapor or dust.

Emergency and First Aid Procedures
SKIN: Flush with water, follow by washing with mild soap and water.
EYES: Flush thoroughly with water for at least 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. **INHALATION:** Remove to fresh air. If discomfort or illness develop get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Protect from light, excessive temperature and heat.
	Stable		
Incompatibility (Materials to avoid)	Strong oxidizing agents.		
Hazardous Decomposition Products	Combustion will produce carbon dioxide and probably carbon monoxide, oxides of nitrogen (NO _x) and sulfur as well as hydrogen bromide and hydrogen chloride.		
Hazardous Polymerization	Conditions to Avoid		
	X		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Absorb in vermiculite, earth, paper. Scoop up and place in a suitable container.

SECTION VIII SPECIAL PROTECTION INFORMATION

Waste Disposal Method	Dispose of in an approved incinerator equipped with an afterburner and scrubber or contract with a licensed waste disposal service.			
Discharge, treatment, or disposal may be subject to federal, state, or local laws.				
Respiration Protection (Specify Type)	None needed in normal laboratory handling.			
Ventilation	Local Exhaust	None needed.	Special	No.
	Mechanical (General)	None needed.	Other	No.
Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.	
Other Protective Equipment	Smock, apron, proper gloves, eye wash station.			

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing Store in a cool place and protect from light. Wash thoroughly after handling. Keep container tightly closed when not in use.

Other Precautions Read label on container before using. There is insufficient data in the published literature to assign complete numerical HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) ratings and laboratory protective equipment for this product. Special precautions must be used in storage, use and handling.

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

Rev. No. 1	Date 1/12/87	Approved Alexander Piccirilli	Chemical Safety Coordinator
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