

MATERIAL SAFETY DATA SHEET

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Date of Last Revision: 01-03

SECTION I - PRODUCT IDENTIFICATION

Product Name: **Jenner Stain**
Catalog Number: 89030
Chemical family: Alcohols, Eosin methylene blue
Formula: CH₃OH - Methanol

SECTION II - COMPOSITION AND HAZARDOUS INGREDIENTS INFORMATION

Hazardous Ingredients	CAS Number	LD50 (Species and Route)	LC50 (Species)
May-Grunwald Stain	N/A	N/A	N/A
Methanol	67-56-1	5628 mg/kg rat	6.4%/4hr rat

SECTION III - PHYSICAL DATA

Physical State Liquid	Odor and Appearance Alcohol Odor – Blue			Odor Threshold (ppm) 2000 ppm
Vapor Pressure 96 mm Hg	Vapor Density 1.105	Evaporation Rate 2.1 (butyl acetate = 1)	Boiling Point 146° F	Freezing Point -144° C
pH N/A	Specific Gravity 0.79 @ 21°C	Coeff. Water/oil Dist. Readily soluble in water, separates from oil		

SECTION IV – FIRE AND EXPLOSION DATA

Flammability		If yes, under which conditions?	➔ Excessive heat, sparks or open flames
Yes	<input checked="" type="checkbox"/>	No	
Means of Extinction Water, carbon dioxide, dry chemical, foam			
Flashpoint and Method 52° F Closed Cup		Upper Flammable Limit (% by vol.) 36.0%	Lower Flammable Limit 6.0%
Autoignition Temperature 385°C (Methanol)		Hazardous Combustion Products Carbon monoxide, carbon dioxide, formaldehyde	
Explosion Data		Sensitivity to Impact	Sensitivity to Static Charge
Vapors are heavier than air and may settle in low areas. Vapors may travel long distances to an ignition source and flash back explosively. Flame may be invisible. Not sensitive to impact			Static ignition hazard can result from handling and use. Use proper grounding during product transfer (NFPA 77)

SECTION V – REACTIVITY DATA

Chemical Stability		If no, under which conditions?	➔
Yes	<input checked="" type="checkbox"/>	No	
Incompatibility with other substances			
Yes	<input checked="" type="checkbox"/>	No	___ If so, which ones? ➔ Strong oxidizing agents, strong acids, strong bases
Reactivity and under what conditions Contact with incompatibilities and/or ignition source			
Hazardous decomposition products See hazardous combustion products in Section IV.			

SECTION VI – TOXICOLOGICAL PROPERTIES

Skin Contact – May cause mild irritation, redness, cracking and drying.			
Skin Absorption – May be absorbed by the skin. Moderately toxic.			
Eye Contact – Causes irritation, redness, pain and blurred vision			
Inhalation – Causes irritation of the respiratory tract. High concentrations may cause central nervous system depression, with weakness, drowsiness, nausea, vomiting, diarrhea, fatigue and loss of consciousness.			
Ingestion – Poisonous. Causes nausea, headache, double vision. May cause unconsciousness or death			
Effects of Acute Exposure See above			
Effects of Chronic Exposure Repeated exposure by inhalation or absorption may cause systemic poisoning, impaired vision or blindness. Inhalation may worsen conditions such as emphysema or bronchitis. Repeated skin exposure may cause defatting of the skin.			
Exposure Limits	PEL	STEL	Agency
May-Grundwald Stain	NA	NA	NA
Methanol	200 ppm	250 ppm	OSHA, ACGIH
Irritancy – Mild irritant to skin. Moderate to severe irritant to eyes.			

<p>Sensitization – Insufficient information</p> <p>Carcinogenicity – No</p> <p>Teratogenicity – No</p> <p>Reproductive Toxicity – Insufficient information</p> <p>Mutagenicity – Insufficient information</p> <p>Synergistic – Can enhance the toxicity of carbon tetrachloride, 1,1,2-trichloroethane, chloroform, trichloroethylene and dimethylnitrosamine.</p>
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SECTION VII – PREVENTIVE MEASURES

<p>Gloves Yes, with appropriate breakthrough resistance. (Nitrile or butyl rubber)</p>	<p>Respirator NIOSH/MSHA approved respirator in the absence of proper ventilation</p>	<p>Eye Protection Safety glasses, goggles or face-shield</p>
<p>Footwear N/A</p>	<p>Clothing Laboratory Coat</p>	<p>Other NA</p>
<p>Engineering Controls General mechanical ventilation or fume hood</p>		
<p>Leak and Spill Procedure Eliminate or shut off all ignition sources. Avoid eye or skin contact. Place leaking containers in a well ventilated area. Contain spill to minimize contaminated area using an absorbent material. Place waste materials into a properly labeled container for disposal. For larger spills, dike the spill to minimize contamination and facilitate salvage or disposal. Avoid runoff into storm sewers and ditches which lead to natural waterways. If fire potential exists, blanket spill with foam or use water spray to disperse vapors.</p>		
<p>Waste Disposal Dispose of this material in accordance with applicable federal, provincial, state and local authorities. RCRA Hazardous Waste Code – D001 for ignitability</p>		
<p>Handling Procedures and Equipment Hydrostatically ground drums during dispensing. Do not use near open flame or sparks. Keep container closed and out of reach of children. Assure adequate fire protection is available.</p>		
<p>Storage Requirements Store at room temperature: 15°-30°C (59° –86°F). Store in a flammable liquid safety cabinet if possible.</p>		
<p>Special Shipping Information USDOT shipping name – Methanol, 3, UN1230, PGII, limited quantity</p>		

SECTION VIII – FIRST AID MEASURES

<p>Specific Measures</p> <p>Eye Contact – Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. If eye irritation persists due to exposure refer to an ophthalmologist for evaluation.</p> <p>Skin Contact – Remove contaminated clothing immediately. Wash the affected area of your body with soap or mild detergent and large amounts of water for at least 15 minutes.</p> <p>Inhalation – Move individual to fresh air immediately. If breathing is difficult, give oxygen. If breathing has stopped, administer artificial respiration. Call a physician.</p> <p>Ingestion – If swallowed, induce vomiting by giving two glasses of water or milk and sticking fingers down throat. Never give anything by mouth to an unconscious person. Call a physician immediately. ANTIDOTE: (Ingestion) Unless unconscious or convulsing, give large amounts of water or milk to induce vomiting. NOTE TO PHYSICIAN: When plasma methanol concentrations exceed 20 mg/dl and when there is evidence of acidosis or visual abnormalities, a 10% solution of ethanol in 5% dextrose administered intravenously is a safe, effective antidote. Immediately induce vomiting by drinking two glasses of salt water and sticking finger down throat or giving Ipecac syrup.</p>
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SECTION IX – REGULATORY INFORMATION

Ingredient	RCRA	SARA Title III		CERCLA	
		302 / 304	313	102(A)	RQ
May-Grunwald Stain	No	Not Listed	Not Listed	Not Listed	N/A
Methanol	D001,F003 U154	Not Listed	Listed	Not Listed	5000 lbs.

Ingredient	NFPA Rating	Canadian WHMIS Proposed	Hazardous Per OSHA	California Proposition 65
May-Grunwald Stain	NA	NA	Yes	Not Listed
Methanol	1,3,0	B2, D2A, D2B	Yes	Not Listed

Proper USDOT Shipping Name	Hazard Class	UN/NA	Packing Group	Limited Quantity
Methanol	3	1230	II	Yes

SECTION X – DATE PREPARED

Prepared By	Phone Number	Date
Richard-Allan Scientific Regulatory Affairs Department	1800-522-7270	January 2003