

MATERIAL SAFETY DATA SHEET

CHROMATE INDUSTRIAL CORPORATION®

5250-A Naiman Parkway, Solon, OH 44139 • 888-567-2206 • www.chromate.com

FOR CHEMICAL **EMERGENCY**

Call ChemTrec day/night: 1-800-424-9300

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: STEEL BLUE LAYOUT FLUID

DATE PREPARED: JULY 23, 2009

PART NUMBER: 534844 & 539808

PRODUCT TYPE: Layout Fluid

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HAZARD RATING:

HEALTH: 2

FLAMMABILITY: 3

REACTIVITY: 1

REV. 07/23/2009 JE

PERSONAL PROTECTION: B

Hazardous Components (Specific				Other Limits	
Chemical Identity, Common Name(s)	CAS No.	OSHA PEL	ACGIH-TLV	Recommended	%(Opt.
Ethanol	64-17-5	TWA 1000 ppm	TWA 1000 ppm	No data	30 - 50
Butyl Acetate	123-86-4	TWA 150 ppm	TWA 150 ppm	No data	20 - 30
Butanol	71-36-3	TWA 50 ppm	TWA 50 ppm	No data	10 - 20
Propane	74-98-6	TWA 1000 ppm	TWA 1000 ppm	No data	5 - 15
N-Butane	106-97-8	TWA 800 ppm	TWA 800 ppm	No data	5 - 15
Nitrocellulose	9004-70-0	No data	No data	No data	1 - 5
n-Propyl Acetate	109-60-4	TWA 200 ppm	TWA 200 ppm	No data	1 - 5
Isopropanol	67-63-0	TWA 400 ppm	TWA 400 ppm	No data	1 - 5
Diacetone Alcohol	123-42-2	TWA 50 ppm	TWA 50 ppm	No data	1 - 5
Malachite Green	569-64-2	No data	No data	No data	< 1
Methyl Violet XXA	8004-87-3	No data	No data	No data	< 1

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW - Blue thin viscosity liquid with sweet solvent odor. Warning! Flammable liquid and vapor. Keep away from heat sparks and flames. May cause eye, skin and respiratory tract irritation. If swallowed do not induce vomiting. Get immediate medical attention.

POTENTIAL HEALTH EFFECTS

Eyes: Liquid is moderately irritating to the eyes. Skin: Liquid is mildly irritating to the skin. Ingestion: Ingestion of liquid may cause vomiting.

Inhalation: High concentration of vapors may produce irritation of the respiratory tract, headache, dizziness, and nausea.

CHRONIC HEALTH EFFECTS

Prolonged or repeated contact may cause skin sensitization or dermatitis. Reports have associated repeated and prolonged occupational overexposure to solvents with irreversible brain and nervous system damage. Intentional misuse by deliberately concentrating or inhaling this product may be harmful or fatal.

SECTION 4 - FIRST AID MEASURES

Eyes - Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Inhalation - Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Skin - Flush skin with plenty of water. Remove contaminated clothing and shoes.

Ingestion - If large quantities of this material are swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

N/A - NOT APPLICABLE N/D - NOT DETERMINED N/E - NONE ESTABLISHED N/R - NOT REGULATED N/L - NOT LISTED

Page 1 of 4

SE	ECTION 5 - FIRE FIGHTING MEASUR	ES	
Flash Point (Method Used) -156°F (Propellant) Product has a flashpoint of 53°F	Flammable Limits	LEL 1.40	UEL 19.0

Extinguishing Media -

Use water fog, foam, dry chemical or CO2. Use water spray to cool fire-exposed containers and to protect personnel.

Special Fire Fighting Procedures -

Keep containers cool and vapors down with water spray. Prevent spill from entering drains, sewers, streams or other bodies of water. If run-off occurs, notify proper authorities. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards – Vapors are heavier than air and may travel along ground, or be moved by ventilation and be ignited by ignition source.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb liquid with non-combustible floor absorbent and place in non-leaking container; seal properly and dispose of properly in compliance with federal, state, and local regulations.

LARGE SPILL: Evacuate area of unprotected personnel. Eliminate all ignition sources. Stop spill at source if safe to do so. Handling equipment must be grounded to prevent sparking. Prevent spill from entering drains, sewers, streams or other bodies of water. If run-off occurs, notify proper authorities. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Dispose of properly in compliance with federal, state, and local regulations.

SECTION 7 – HANDLING AND STORAGE

HANDLING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, sparks, flames, static electricity, or other sources of ignition. Many hot organic chemical vapors or mists are susceptible to sudden spontaneous combustion when mixed with air. Ignition may occur at temperatures below those published in the literature as "autoignition" or ignition temperatures. Ignition temperatures decrease with increasing vapor volume and vapor volume and vapor/air contact time, and are influenced by pressure changes. Ignition of organic chemical vapors may occur at typical elevated-temperature process conditions, especially in processes operating under vacuum if subjected to sudden ingress of air, or outside process equipment operating under elevated pressure if sudden escape of vapors or mists to the atmosphere occurs. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

STORAGE:

Contents under pressure. Keep away from heat, sparks and open flames. Keep out of reach of children. Keep container tightly sealed when not in use. Store in cool, well-ventilated place away from incompatible materials.

	rotection (Specify Type) – essary. Use with adequate vention	ilation. Use NIOS	H/MSHA	approved respirator if	PELs or TLVs are exceeded.
Engineering	Local Exhaust	Not usually		Special	None
Controls	Mechanical (General)	Yes	Other		None
	ves – Chemical resistant gloves It your safety equipment supplie		Wear c	hemical splash goggles i on if splashing is possib	required if used as intended in compliance with OSHA de.
Other Protecti	ve Clothing or Equipment -		ible week	apron, boots, face shiel	d ata as assidad

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SECTION 9 - PHYSICAL AND CHEMCIAL PROPERTIES					
Boiling Point	170°F- 257°F	Specific Gravity ($H_2O = 1$) @70° F	0.85		
Vapor Pressure (mm-Hg @ 70° F)	No Data	Melting Point	No Data		
Vapor Density (AIR = 1)	Greater than one (1)	Evaporation Rate (Butyl Acetate = 1)	Greater than (1)		
Solubility in Water	Negligible	рН	No Data		

Appearance and Odor - Blue thin viscosity liquid with sweet solvent odor.

VOC: This product contains 808 grams per liter or 95.59% by weight VOC's.

		SEC	TION 10 – STABILITY AND REACTIVITY	
Chemical	hemical Unstable Conditions to Avoid - None known.			
Stability	Stable	X		
Incompatibility	(Materials to Av	oid) -		
Strong oxidizing	and reducing age	nts, stron	ng alkalies and strong acids.	
Hazardous Deco	mposition or By	product	S -	
Carbon dioxide,	carbon monoxide	, smoke,	soot and various organic oxidation by-products.	
Hazardous	May Occur		Conditions to Avoid - No data	
Polymerization	Will Not	X		
35.0	Occur			

SECTION 11 – TOXICOLOGICAL INFORMATION					
Ethanol Butyl Acetate Butanol	Oral LD50 (Rat) 7060 mg/kg 14 g/kg 2500 mg/kg	Dermal LD50 (Rabbit) No data No data Slight	Inhalation LC50 (Rat) 20000 ppm/10H No data >8000 ppm/4H		
Nitrocellulose Isopropanol	>5000 mg/kg 5045 mg/kg	No data No data	No data No data		

Please refer to Section 3 for available information on potential health effects.

SECTION 12 – ECOLOGICAL INFORMATION

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

SECTION 13 - DISPOSAL CONSIDERATIONS

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Dispose of in accordance with all applicable local, state and federal regulations.

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SECTION 14 – TRANSPORT INFORMATION (Not meant to be all inclusive)					
Domestic Highway (Containers < 1 Quart are ORM-D)	Domestic Air Shipments: Varies				
Proper Shipping Name: No Data	Proper Shipping Name: No data				
Hazard Class/Subsidiary Hazard:	Hazard Class/Subsidiary Hazard: No data				
Consumer Commodity ORM-D					
UN/NA No.: No Data	UN/NA No.: No data				
Packing Group: No Data	Packing Group: No data				
Label Required: No Data	Label Required: No data				

SECTION 15 - REGULATORY INFORMATION (Not meant to be all inclusive - selected regulations represented)

TSCA: Components of	his product are listed on the T	SCA inventory.	
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No
OSHA: Hazardous by d	efinition of Hazard Communic	cation Standard (29 CFR 1910.1200).	
SECTION 313: This pro	duct contains Butanol (71-36-	3) which is listed and may require report	rting under SARA Title III Sec. 31.
if used over the threshold	reporting quantity. This infor-	mation must be included in all MSDSs	that are copied and distributed for
this material.			•

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65: This product is not known to contain any material listed under California's Proposition 65.

SECTION 16 - OTHER INFORMATION

WARNING! The use of this product is beyond the control of the manufacturer and distributor; therefore, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The user must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials. The manufacturer and distributor warrant only that this product meets the specifications for such product. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION, QUALITY, MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER OF THIS PRODUCT. THE MANUFACTURER AND DISTRIBUTOR SHALL BE IN NO WAY RESPONSIBLE FOR THE PROPER USE OF THIS PRODUCT. The sole and exclusive remedy against the manufacturer and distributor for breach of warranty shall be reimbursement of the purchase price of the product in the event that a defective condition of the product shall be found to exist. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.

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