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MATERIAL SAFETY DATA SHEET

H. B. Fuller Company
1200 Wolters Boulevard
Vadnais Heights, Minnesota 55110

Date: 07 February 1991

Prepared by: Industrial Hygiene
Telephone Number: 612/481-3300

Emergency Medical Telephone Number: 800/228-5635

PRODUCT IDENTIFICATION

H. B. Fuller Company Name: PA-3859 251
Product Class: SYNTHETIC RESIN based product in water
DOT Proper Shipping Name: Not a regulated material

WARNING STATEMENTS

No specific warnings for normal use conditions.

PRECAUTIONARY MEASURES

Avoid temperature extremes in storage.

EMERGENCY AND FIRST AID PROCEDURES

FIRST AID:

- If in eye: Flush immediately with water for 15 minutes. Consult a physician if irritation persists.
- If on skin: Wash affected area with soap and water. Launder contaminated clothing before reuse.
- If vapors inhaled: Remove subject to fresh air.
- In case of fire: This product is non-flammable in the liquid state. Use water spray, foam, dry chemical or carbon dioxide on dried product.
- Spill or Leak: Contain and remove with inert absorbent. Keep spill out of sewers.

V-1108

HAZARDOUS INGREDIENTS

Material Name/CAS #	Level In Product	OSHA PEL	ACGIH TLV (1988,1989)
Residual vinyl acetate monomer (108-05-4)	<0.5%	10 ppm	10 ppm
Flash point, F: 18			
LEL, %: 2.6			
Vapor pressure, in mm Hg @ 20 C: 92			
OSHA STEL: 20 ppm			
ACGIH STEL: 20 ppm			

This MSDS is prepared to comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200). Unlisted ingredients are not 'Hazardous' per this OSHA Standard and are considered to be trade secrets of the H. B. Fuller Company. Identities of trade secret ingredients will be made available following the procedures specified in the standard.

NA = not applicable
NE = not established

CUPATIONAL CONTROL PROCEDURES

Eye Protection: Wear safety glasses to reduce the potential for eye contact; chemical safety goggles are appropriate if splashing is likely. Have eye washes available where eye contact can occur.

Skin Protection: Prevent prolonged or repeated contact by using rubber gloves and appropriate protective clothing. Launder contaminated clothing before reuse.

Respiratory Protection: Not normally required.

Ventilation: Standard industrial ventilation.

RE PROTECTION

Flash Point/Method: Non-flammable

Appropriate Extinguishers: Non-flammable in liquid state; use water spray, foam, dry chemical or carbon dioxide on dried product.

Special Fire Fighting Procedures: Persons exposed to products of combustion should wear self-contained breathing apparatus and full protective equipment.

Unusual Fire and Explosion Hazards: There is the possibility of pressure buildup in closed containers when heated. Water spray may be used to cool the containers.

ACTIVITY DATA

Stability: Stable

Incompatibility: Not established

Hazardous Decomposition Products: Incomplete combustion can yield low molecular weight hydrocarbons, carbon monoxide

Hazardous Polymerization: Will not occur.

EFFECTS OF OVEREXPOSURE

Eyes: Direct eye contact with the product may cause irritation.

Skin: Prolonged or repeated contact with liquid product may cause irritation.

Inhalation: Exposure to vapors in poorly ventilated areas may cause irritation of the nose, throat and respiratory tract.

Chronic: Vinyl acetate has been shown to cause cancer in tests with laboratory animals. Overexposure may increase cancer risk. Overexposure to vinyl acetate should not occur with normal handling and use.

Existing Health Conditions Affected by Exposure: No known effects on other illnesses.

NA - not applicable
NE - not established

PHYSICAL DATA

Physical State: Liquid
Weight per Gallon: 8.9 lbs.
Viscosity: 5750 cps
% Solids by Weight: 30
pH: 7
Boiling Range: Greater than 200 F
Soluble in Water: Miscible

SPILL, LEAK & DISPOSAL INFORMATION

Spill or Leak Procedures: Dike if necessary, contain spill with inert absorbent and transfer to containers for disposal. Keep spilled product out of sewers, watersheds or water systems.

Waste Disposal: To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. It does not contain any added raw materials with known levels of TCLP constituents as identified in section 261.24 of the U.S. EPA Hazardous Waste Regulation. Leachate tests have not been performed. State or local hazardous waste regulations may apply if they are different from the federal regulation. Solidify and dispose of in an approved landfill. For additional waste disposal assistance, consult H.B. Fuller Environmental Services at 612/481-1588.

STORAGE

Protect from freezing - product stability may be affected.

ADDITIONAL INFORMATION

In storage, monomer vapors will migrate from the emulsion and establish an equilibrium between the headspace in the storage container and the liquid emulsion. Levels in excess of acceptable exposures can accumulate in non-vented headspaces above the emulsion. All procedures appropriate for a confined space entry should be completed prior to performing any work in a bulk storage tank.

REGULATORY INFORMATION**TSCA**

All components of this product are registered under the regulations of the Toxic Substances Control Act.

NA - not applicable
NE - not established

SARA TITLE III

Section 313: This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372:

Chemical Name	CAS Number	Percentage
Vinyl acetate	108-05-4	<0.5

This information must be included in all MSDS that are copied and distributed for this material.

MATERIAL SAFETY DATA SHEET

No. 104

43314-XXXX

Rev. 2

MAR 29 1988

I. General Information

6311-06

ULANO CORPORATION

718-622-5200

-07

255 BUTLER STREET, BROOKLYN, N.Y. 11217

43314-1007

PRODUCT OR TRADE NAME: ULANO GEL #23

-1009

II. HAZARDOUS INGREDIENTS

	%	HAZARD DATA
Not applicable		

III. Physical Data

Boiling Point (°F) N.A.	Specific Gravity (H ₂ O = 1) approx. 1
Vapor Pressure (mm Hg.) N.A.	Percent Volatile By Volume (%) 85
Vapor Density (Air = 1) N.A.	Evaporation Rate (H ₂ O = 1) 1
Solubility in Water Soluble or dispersible	pH 7-8
Appearance & Odor grey colored paste - nearly odorless	

IV. Fire & Explosion Hazard Data

Flash Point (Test Method) Not flammable	Auto Ignition Temperature N.A.
Flammable Limits N.A.	LEL N.A. UEL N.A.
Extinguishing Media Not necessary	
Special Fire Fighting Procedures None	
Unusual Fire & Explosion Hazards None	

V-43330

Overexposure can result in skin and eye irritation.

PRIMARY ROUTES OF ENTRY	<input type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion	CARCINOGEN LISTED IN	<input type="checkbox"/> NTP	<input type="checkbox"/> OSHA
	<input type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Not Hazardous		<input type="checkbox"/> IARC Monograph	<input checked="" type="checkbox"/> Not Listed

Emergency First Aid
 Skin and eye - In case of contact, flush with plenty of water.
 If irritation results, call a physician.

VI. Reactivity Data

Stability	<input type="checkbox"/> Unstable	Conditions To Avoid	None
	<input checked="" type="checkbox"/> Stable		
Incompatibility		Materials To Avoid	None
Hazardous Polymerization	<input type="checkbox"/> May Occur	Conditions To Avoid	None
	<input checked="" type="checkbox"/> Will Not Occur		
Hazardous Decomposition Products		None	

VII. Environmental Protection Procedures

Spill Response
 Small spills may be rinsed down the drain. Large spills, absorb onto solid material.

Waste Disposal Method
 Dispose of in accordance with state and local regulations.

VIII. Special Protection Information

Eye Protection	Goggles	Skin Protection	plastic gloves
Respiratory Protection (Specific Type)	None	Ventilation Recommended	Normal
Other Protection	Protective apron		

IX. Special Precautions

Handling & Storage
 None

Other Precautions
 None

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Ulano Corp. makes no warranty with respect thereto and disclaims all liability from reliance thereon.

MATERIAL SAFETY DATA SHEET

No. 105

43310-XXXX

Rev. 2

MAR 29 1988

I. General Information

ULANO CORPORATION

718-622-5200

43310-1007

-1009

255 BUTLER STREET, BROOKLYN, N.Y. 11217

PRODUCT OR TRADE NAME: ULANO STENCIL REMOVER #4
Active ingredient: Sodium metaperiodate

II - HAZARDOUS INGREDIENTS

	%	HAZARD DATA
Not applicable		

III. Physical Data

Bailing Point (°F) 212	Specific Gravity (H ₂ O = 1) 1
Vapor Pressure (mm Hg.)	Percent Volatile By Volume (%) 96
Vapor Density (Air = 1)	Evaporation Rate (H ₂ O = 1) 1
Solubility in Water Infinite	pH 4.2
Appearance & Odor Light blue color - odorless	

IV. Fire & Explosion Hazard Data

Flash Point (Test Method) Not flammable	Auto Ignition Temperature Not flammable
Flammable Limits N.A.	LEL N.A. UEL N.A.
Extinguishing Media N.A.	
Special Fire Fighting Procedures N.A.	
Unusual Fire & Explosion Hazards N.A.	

V-4330

Overexposure can result in skin and eye irritation.

PRIMARY ROUTES OF ENTRY

- Inhalation
 Skin Absorption
 Ingestion
 Not Hazardous

CARCINOGEN LISTED IN

- NTP
 IARC Monograph
 OSHA
 Not Listed

Emergency First Aid

Skin and eye - In case of contact, flush with plenty of water. If irritation results, consult a physician.

VI. Reactivity Data

Stability	<input checked="" type="checkbox"/> Stable	Unstable	Conditions To Avoid	None
Incompatibility			Materials To Avoid	Reducing agents
Hazardous Polymerization	<input checked="" type="checkbox"/> Will Not Occur	May Occur	Conditions To Avoid	
Hazardous Decomposition Products			Iodine, iodine oxides, oxygen.	

VII. Environmental Protection Procedures

Spill Response Small spills may be rinsed down the drain. Large spills, absorb onto solid material.

Waste Disposal Method

Dispose of in accordance with state and local regulations.

VIII. Special Protection Information

Eye Protection	Goggles	Skin Protection	Plastic gloves
Respiratory Protection (Specific Type)	None	Ventilation Recommended	Normal
Other Protection	Protective apron.		

IX. Special Precautions

Handling & Storage None

Other Precautions None

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Ulano Corp. makes no warranty with respect thereto and disclaims all liability from reliance thereon.

Black Cat India, Inc

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

7000-01
-02
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U.S. Department of Labor
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

21101-XXXX



IDENTITY (As Used on Label and List) SPEEDBALL Super Black India Ink (3268, 3338, 32110, 3378, 3231, 3398 & 3251)
SPEEDBALL Black Waterproof Ink

Section I Revd 02-12-01

 P. O. Box 5157 Statesville, NC 28687 ©1997 Speedball Art Products Company	Emergency Telephone Number 704-838-1475
	Telephone Number for Information 704-838-1475
	Date Prepared 1/29/98
	Signature of Preparer (optional) <i>[Signature]</i>

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Certified non-toxic as per ASTM D4236. Approved for the AP Seal as per the Art and Craft Materials Institute, Inc. (ACMI)				

21101-2002
- 2003
- 2004
- 2006
- 2007

V-3921

Section III — Physical/Chemical Characteristics

Boiling Point	212-374°F	Specific Gravity (H ₂ O = 1)	1.1
Vapor Pressure (mm Hg.)	17mmHg	Melting Point	<32°F.
Vapor Density (AIR = 1)	less than 1	Evaporation Rate (Butyl Acetate = 1)	less than 1
Solubility in Water	Dilutable		
Appearance and Odor	Thick paste/Acrylic emulsion odor		

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Not applicable (N/A)	N/A	N/A	N/A
Extinguishing Media	N/A		
Special Fire Fighting Procedures	wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.		
Unusual Fire and Explosion Hazards	Material can spatter above 212°F. Film can burn.		

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid Onset of decomposition is 350°F.
	Stable	X	

Incompatibility (Materials to Avoid) N/A

Hazardous Decomposition or Byproducts

Oxides of carbon and nitrogen.

Hazardous Polymerization	May Occur		Conditions to Avoid N/A
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry: N/A Inhalation? Skin? Ingestion?

Health Hazards (Acute and Chronic) N/A

Carcinogenicity: N/A NTP? IARC Monographs? OSHA Regulated?

Signs and Symptoms of Exposure N/A

Medical Conditions Generally Aggravated by Exposure N/A

Emergency and First Aid Procedures Contact with eyes may cause mild irritation: Flush with water.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
Floor may be slippery; use care to avoid falling. Transfer to containers for recovery or disposal. Keep out of municipal sewers and open bodies of water.

Waste Disposal Method
Incinerate at a permitted facility according to current local, state and federal regulations.

Precautions to Be Taken in Handling and Storing
Keep from freezing - product may coagulate.

Other Precautions N/A

Section VIII — Control Measures

Respiratory Protection (Specify Type)
None required with adequate ventilation & normal operating conditions.

Ventilation	Local Exhaust	Adequate	Special
	Mechanical (General)		Other

Protective Gloves: Impervious Eye Protection: Safety glasses

Other Protective Clothing or Equipment N/A

Work Hygienic Practices
Use protective cream where excessive skin contact is likely.