

4524 *** Speedball Fabric Screen Printing *** 44924-1509
 Material Safety Data Sheet **Tool Kit**
 May be used to comply with U.S. Department of Labor
 OSHA's Hazard Communication Standard, Occupational Safety and Health Administration
 29 CFR 1910.1200. Standard must be (Non-Mandatory Form)
 consulted for specific requirements. 4-10-03 Form Approved
 OMB No. 1218-C072

IDENTITY (As Used on Label and List)
 SPEEDBALL Screen Drawing Fluid (4531 & 4571)

Section I

Manufacturer's Name SPEEDBALL ART PRODUCTS 2226 SPEEDBALL ROAD STATESVILLE, NC 28677	Emergency Telephone Number	704-838-1475
	Telephone Number for Information	704-838-1475
	Date Prepared	6/29/02
	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)
Approved for the AP Seal (Non-Toxic) as per the Art & Creative Materials Institute, Inc. (ACMI). Product labeling conforms to ASTM D4236.				

Note: This product has been evaluated by the Toxicologist only as per intended usage. Do not deviate from intended usage!

V.O.C.: 0

Section III — Physical/Chemical Characteristics

Boiling Point	212°F.	Specific Gravity (H ₂ O = 1)	1.19
Vapor Pressure (mm Hg.)	Unknown	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	Translucent Blue Color with a slight 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.		

V-3921

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. No special handling required under normal use conditions. For large quantities (quart or more), transfer to containers for recovery or disposal and keep out of municipal sewers & open bodies of water.

Waste Disposal Method
 No special handling required under normal use conditions. Incinerate large quantities (quart or more) at a permitted facility according to local, state & Fed. regulation.

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/Hygiene Practices
 Use protective cream where excessive skin contact is likely.

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.

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



IDENTITY (As Used on Label and List)
SPEEDBALL Screen Filler (4530 & 4570)

Section I

Manufacturer's Name SPEEDBALL ART PRODUCTS 2226 SPEEDBALL ROAD STATESVILLE, NC 28677	Emergency Telephone Number	704-838-1475
	Telephone Number for Information	704-838-1475
	Date Prepared	6/29/02
	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)
Approved for the AP Seal (Non-toxic) by the Art & Creative Materials Institute, Inc. (ACMI) Product labeling conforms to ASTM 4236.				

Note: This product has been evaluated by a Toxicologist only as per intended usage.
 Do not deviate from intended usage!

VOC: 0.20 lbs. per gal.
 24 grams per liter

Section III — Physical/Chemical Characteristics

Boiling Point	212°F.	Specific Gravity (H ₂ O = 1)	1.2
Vapor Pressure (mm Hg.)	Unknown	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: Red Oxide Color with slight 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
	Stable	X	

Onset of decomposition is 350°F.

Incompatibility (Materials to Avoid) N/A

Hazardous Decomposition or Byproducts

Oxides of carbon and nitrogen.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

N/A

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. No special handling required under normal use conditions. For large quantities (quart or more), transfer to containers for recovery or disposal and keep out of unicipal sewers and open bodies of water.

Waste Disposal Method No special handling required under normal use conditions. Incinerate large quantities (quart or more) at a permitted facility according to local, state & Fed regulati

Precautions to Be Taken in Handling and Storage 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.

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.

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

IDENTITY (As Used on Label and List)
 SPEEDBALL Diazo Photoemulsion (Part of #4558 Kit) 4559 + 4579

Section I



P. O. Box 5157
 Statesville, NC 28087
 ©1997 Speedball Art Products Company

Manufacturer's Name	Emergency Telephone Number
	704-838-1475
ZIP Code)	Telephone Number for Information
	704-838-1475
	Date Prepared
	2/6/02
	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	% (conc)
Certified non-toxic as per ASTM D4236. Approved for the AP Seal as per the Art and Craft Materials Institute, Inc. (ACMI)				
Ethyl Alcohol (CAS #64-17-5)	NA	1000ppm	NA	4

Section III — Physical/Chemical Characteristics

Boiling Point	212°F.	Specific Gravity (H ₂ O = 1)	1.1
Vapor Pressure (mm Hg.)	NA	Melting Point	<32°F.
Vapor Density (AIR = 1)	less than 1	Evaporation Rate (Butyl Acetate = 1)	less than
Solubility in Water	Dilutable		
Appearance and Odor	Light blue appearance with faint 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.		

Stability			Conditions to Avoid
Unstable			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			Conditions to Avoid
May Occur			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.

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.

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



IDENTITY (As Used on Label and List) **SPEEDBALL Diazo Sensitizer (Part of #4558 Kit) 4559 + 4578**

Section I

Manufacturer's Name 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 6/29/02
	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)
Polymethylene-p-Diazo Benzene Dye (CAS #71550-45-3)	N/A	N/A	N/A	
Phosphoric Acid (CAS #7664-38-2)	1mg/m3	1mg/m3	N/A	15

(Will irritate skin & eyes and may produce allergic reaction by skin contact.)

Section III — Physical/Chemical Characteristics

Boiling Point	200° Decomposition	Specific Gravity (H ₂ O = 1)	1.4
Vapor Pressure (mm Hg.)	Unknown	Melting Point	[32°F.
Vapor Density (AIR = 1)	Unknown	Evaporation Rate (Butyl Acetate = 1)	Unknown

Solubility in Water
Infinite
 Appearance and Odor
Brown paste with no odor.

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) None	Flammable Limits N/A	LEL N/A	UEL N/A
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Extinguishing Media
Not applicable

Special Fire Fighting Procedures
If material is within a fire area, CO2, water or dry powder can be used.

Unusual Fire and Explosion Hazards
**Material slowly darkens with heat and may liberate acidic fumes and nitrogen gas.
 Wash with water.**

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid High temperatures above 200°F.
	Stable	X	

Incompatibility (Materials to Avoid) **Caustic materials.**

Hazardous Decomposition or Byproducts **Nitrogen, water vapor & acid fumes.**

Hazardous Polymerization	May Occur		Conditions to Avoid High temperatures above 200°F.
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry: **Multiple** Inhalation? **Skin?** Ingestion?

Health Hazards (Acute and Chronic) **Eyes & Skin - Can be an irritant.**

Ingestion - Low order of acute oral toxicity.

Inhalation - Excessive inhalation can cause nasal & respiratory irritations.

Carcinogenicity: **NTP? Unknown** IARC Monographs? **Unknown** OSHA Regulated? **Unknown**

Signs and Symptoms of Exposure **Irritation. May cause a skin rash in sensitive individual.**

Medical Conditions Generally Aggravated by Exposure **Preexisting skin, eye & respiratory disorders.**

Emergency and First Aid Procedures **Inhalation: Remove to fresh air.**

Eyes & Skin: Flush with plenty of water. If irritation persists, get medical attention.

Ingestion: Dilute by giving water. Call a physician.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled **Dissolve in warm water. Discard according to Federal, State and local requirements.**

Waste Disposal Method **According to EPA Requirements or in aqueous waste storage units for commercial chemical disposal.**

Precautions to Be Taken in Handling and Storing **Store in a cool, dark place. Refrigerate for longer shelf-life.**

Avoid sun and excess heat.

Other Precautions **Material is perishable and light sensitive. Use normal laboratory procedures as with all chemicals.**

Section VIII — Control Measures

Respiratory Protection (Specify Type) **None should be required with adequate ventilation.**

Ventilation	Local Exhaust	Recommended	Special	N/A
	Mechanical (General)	Acceptable	Other	N/A

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.**