

SAFETY DATA SHEET

Rev. Date: 5-18-2015 Prepared according to OSHA Hazard Communication Standard Rule - 29 CFR 1910.1200 and the Canadian Hazardous Products Act and the Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations.

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SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or mixture:

Product name: Speedball Diazo Sensitizer

Common Name: 4-Diazodiphenylamine / formaldehyde condensate hydrogen phosphate complex

1.2 Use of the substance/mixture:

Use of the Substance/Preparation: Negative-working photosensitizer for silkscreens.

1.3 Company/undertaking identification:

Speedball Art Products
2301 Speedball Rd
Statesville, NC 28677 USA
Emergency Call: 800-898-7224 FAX: 704-838-1472
E-mail: customerservice@speedballart.com

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GHS (Globally Harmonized System of Classification and Labelling of Chemicals)

This product is not regulated according to the criteria of the United States, Occupational Safety and Health Administration (OSHA), Hazard Communication, 29 Code of Federal Regulation 1910.1200.

2.2 Label elements:

GHS (Globally Harmonized System of Classification and Labelling of Chemicals)

This product is not regulated according to the criteria of the United States, Occupational Safety and Health Administration (OSHA), Hazard Communication, 29 Code of Federal Regulation 1910.1200.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance related information:

CAS-No.: 71550-45-3

3.2 Hazard Ingredients:

Hazardous components

This product does not contain any hazardous components as defined by relevant legislation.

Components with a community workplace exposure limit

This product does not contain components with a community exposure limit.

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin contact : In case of skin contact, wash the skin with copious quantities of soap and water. If redness, itching or burning sensation develops, consult medical personnel.
Ingestion : Rinse mouth with plenty of water. Seek medical advice.

4.2 Most important symptoms and effects: May be irritating to eyes and skin.

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4.3 Indication of immediate medical attention and special treatment needed: Seek medical advice if you feel unwell.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Material does not burn. Use extinguishing media appropriate to type of fire and surrounding materials, i.e. water fog, carbon dioxide, dry chemical powder or appropriate foam.

5.2 Special hazards arising from the substance or mixture:

Hazardous decomposition products / combustion products: Carbon dioxide, carbon monoxide, nitrogen oxides.

5.3 Advice for fire-fighters:

Special protective equipment for fire-fighters

: Firefighters should be equipped with self-contained breathing apparatus to protect against potentially irritating fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Personal precautions : See section 8: Exposure controls / personal protection.

6.2 Environmental precautions:

Environmental precautions : Spilled material and wash water must be disposed of in accordance with local discharge regulations. Comply with all federal, state and local spill regulations.

6.3 Methods and material for containment and cleaning up:

Methods for cleaning up : Collect material for proper disposal. Material may be mixed with sand or earth or neutralizing media. Material may be neutralized with a sodium carbonate solution. Wash the spill site with warm water after material pick-up is completed. Spilled material and wash water must be disposed of in accordance with local discharge regulations. Comply with all federal, state and local spill regulations.

6.4 Reference to other sections:

For waste disposal see section 13.
For personal protection see section 8.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Hygiene measures : Normal chemical handling procedures should be practiced. Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of chemical materials. Sinks and eye wash stations should be available in the work area.

Advice on protection against fire and explosion

: Material is non-combustible and non-explosive.

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7.2 Conditions for safe storage:

Requirements for storage areas and containers : Keep container tightly closed. Keep in a dry, cool place. Protect from direct sunlight.

Further information on storage conditions : Always keep all chemicals locked up or in an area accessible only to qualified or authorized persons.

7.3 Specific end use: Photosensitizer for silkscreens.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters: We are not aware of control parameters for this substance.

8.1.1 Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring: We are not aware of exposure limits for this substance.

8.1.1.1 Occupational exposure limits:

Air limit values (US)

We are not aware of any national exposure limit.

Air limit values (CA)

We are not aware of any national exposure limit.

Biological limit values (US)

We are not aware of any national exposure limit.

Biological limit values (CA)

We are not aware of any national exposure limit.

8.1.1.2 Additional exposure limits under the conditions of use: None known.

8.2 Exposure controls:

Occupational exposure controls:

- **Instruction measures to prevent exposure:**

Minimize exposure in accordance with good chemical manufacturing hygiene practices. Avoid contact with the eyes, skin and clothing.

Employees should wash their hands and face before eating, drinking, or using tobacco products. Keep away from foodstuffs, drinks and tobacco.

- **Technical measures to prevent exposure:**

Sinks and eyewash stations should be available in the work area.

- **Personal measures to prevent exposure:**

Respiratory protection : Respirator protection is not required.

Hand protection : Use chemical resistant gloves. Avoid gloves made of natural latex.

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Eye protection : ANSI approved safety goggles.

Personal protective equipment : Educate and train employees in the safe use and handling of this product. Sinks and eye wash stations should be available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic physical and chemical properties:

9.1.1 Appearance:

State of matter : viscous oily resin
Form : viscous oily resin
Color : dark brown
Odor : slightly pungent odor
Odor threshold : no data available

9.1.2 Important health, safety and environmental information:

pH : No data available
Melting point/range : Decomposes
Boiling point/range : >93.3° C Decomposes
Flash point : None, Not combustible
Auto ignition temperature : None, Not combustible
Vapor pressure : Not established
Relative vapor density : No data available
Density : 1.3 / gmL
Water solubility : Infinite
Partition coefficient (n-octanol/water) : No data available

9.1.2 Important health, safety and environmental information: cont'd

Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Lower explosion limit : No data available
Upper explosion limit : No data available
Evaporation rate : No data available

9.2 Other information:

VOC content : 0.0 g/l
VOC content excluding water

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity:

Reactivity : Reacts with oxidizing agents.

10.2 Chemical stability:

Stability : The product is stable under normal conditions of storage and use.

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10.3 Possibility of hazardous reactions:

None known.

10.4 Conditions to avoid:

Conditions to avoid : Exposure to Heat and light.

10.5 Materials to avoid:

Materials to avoid : Avoid contact with strong oxidizing agents. Avoid contact with strong alkalis.

10.6 Hazardous decomposition products:

Hazardous decomposition : Carbon monoxide (CO), Carbon dioxide (CO₂) and nitrogen oxides.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Data not relevant for classification purposes.

Toxicokinetics, metabolism and distribution:

No data available.

Acute effects (toxicity tests):

- Acute Toxicity

	Effect dose	Species	Value	Method
Acute oral toxicity	No data available			
Acute dermal toxicity	No data available			
Acute inhalation toxicity	No data available			

- Specific target organ toxicity (STOT):**

Specific effects	Affected organs
No data available	No data available

- Irritant and corrosive effects:**

	Exposure time	Species	Evaluation	Method
Primary irritation to the skin	No data available			
Irritation to eyes	Irritating to eyes.			

- Irritation to the respiratory tract:**

No data available

- Sensitisation:**

Species	Evaluation	Method
	No data available	

- Aspiration hazard:**

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No data available

Sub-acute, sub-chronic and chronic toxicity

- **Repeated dose toxicity:**
No data available
- **Specific target organ toxicity (STOT):**
No information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

- Carcinogenicity

Based on available data, the classification criteria are not met.

- Mutagenicity

No data available

- Genetic toxicity in vitro

No data available

- Genetic toxicity in vivo

No data available

- Teratogenicity

No data available

- Toxicity to reproduction

No data available

- **Summarized evaluation of the CMR properties:**

Carcinogenicity	: No data available
Mutagenicity	: No data available
Teratogenicity	: No data available
Toxicity to reproduction	: No data available

SECTION 12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:	<u>Effect dose</u>	<u>Exposure time</u>	<u>Species</u>	<u>Value</u>
Toxicity to fish	No data available			
Toxicity to daphnia	No data available			
Toxicity to algae	No data available			
Toxicity to bacteria	No data available			

12.2 Persistence and degradability:**Adsorbed organic bound halogens (AOX)**

No data available

Biodegradation

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No data available

Biochemical Oxygen Demand (BOD)

No data available

12.3 Bioaccumulative potential:

Partition coefficient (n-octanol/water)

No data available

Bioconcentration factor (BCF)

No data available

12.4 Mobility in soil:

No information available.

Henry's constant

No information available.

Transport between environmental compartments

No data available

12.5 Results of PBT and vPvB assessment:

No data available

12.6 Other adverse effects:

No information on ecology is available.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

Empty containers.

Recondition or dispose of empty container in accordance with governmental regulations.

US. RCRA Hazardous Waste Classification (40 CFR 261)

Under RCRA, it is the responsibility of the product user to determine, at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

SECTION 14. TRANSPORT INFORMATION

Not regulated according to IMO/IMDG.

Not regulated according to ICAO/IATA aircraft only.

Not regulated according to ICAO/IATA passenger and cargo aircraft.

Not regulated according to US Department of Transportation (DOT) 49 CFR

Not regulated according to Transport of Dangerous Goods (TDG)

SECTION 15. REGULATORY INFORMATION

US. Toxic Substances Control Act (TSCA)

All of the components of this product are listed on the TSCA Inventory.

TSCA CDR (Toxic Substances Control Act Chemical Data Reporting)

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This substance is listed on the TSCA CDR EXEMPT LIST and is, by statute and regulation, exempt from reporting under the Chemical Data Reporting rule, i.e., TSCA Chemical Data Reporting Requirements (40 CFR 711).

US. OSHA Classification

This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

US. SARA 311/312 Hazard Categories

No SARA Hazards

US. California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

State Right-to-Know Information

The following chemicals are specifically listed by individual states. Other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

	CAS-No.	Concentration [%]
• Benzenediazonium,4-(phenylamino)-, phosphate (1:1), polymer with formaldehyde (Chemical abstracts name).	71550-45-3	>= 80.0 - <= 100.0

US. Massachusetts, New Jersey, Pennsylvania or Rhode Island Right to Know Substance Lists: See Section 2.

Canadian WHMIS Classification

Not regulated.

Canadian Environmental Protection Act (CEPA)

This product contains the following components listed on the Canadian NDSL list. All other components are on the Canadian DSL list.

- Benzenediazonium, 4-(phenylamino)-, phosphate (1:1), polymer with formaldehyde (Chemical abstracts name).

SECTION 16. OTHER INFORMATION

To the best of our knowledge the chemical, physical and toxicological properties of this material have not been thoroughly investigated. The information contained herein is believed, as of this date, to be reliable and is presented in good faith. It is, however, furnished without warranty or guarantee of any kind, expressed or implied, and Speedball Art Products disclaims any liability incurred from the use or reliance upon the same.

The data on this SDS relates only to the specific material designated herein. Speedball Art Products assumes no legal responsibility for use or reliance upon these data. This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard Rule - 29 CFR 1910.1200 and the Canadian Hazardous Products Act.



Safety Data Sheet:
**Material Name: Elmer's
Painter's Solid Colors**
SDS ID: SDS-57
Issue Date: 2015-04-22
Revision: 1.0

Other Sections

[01](#) [02](#) [03](#) [04](#) [05](#) [06](#) [07](#) [08](#) [09](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#) [16](#)

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

Elmer's Painter's Solid Colors

Synonyms

7326, 7327, 7332, 7333, 7334, 7335, 7336, 7337, 7339, 7341, 7343, 7344, 7345, 7347, 7349, 7368, 7369, 7370, 7371, 7372, 7373, 7374, 7382, 7383, 7384, 7385, 7387, 7390, 7391, 7394, 7395, 7396, 7397, 7398, 7399, 7400, 7401, 7402, 7403, 7404, 7405, 7413, 7414, 7415, 7416, 7417, 7418, 7419, 7421, 7426, 7427, 7429, 7431, 7518, 7519, 7520, 7522, 7527, 7528, 7567, 7694, 7695, 7698, 7698W, 7699, 7700, 7701, 7705, 7720, 7721, 7724, 7726, J7343Q, J7345Q, J7389Q, J7522Q, JA7336, JA7339, JA7347, JA7393, JA7583, M7327, M7580, M7583, W7325, W7365, W7367, W7380, W7513CLS, W7523, W7524, W7571, W7571Q, WA7326, WA7327, WA7332, WA7333, WA7337, WA7341, WA7452, WA7518, WA7519, WA7520, WA7521, WA7567

Product Use

paint related products

Manufacturer Information

Elmer's Products, Inc
460 Polaris Parkway, Suite 500
Westerville, OH 43082
USA
Phone: 1-888-435-6377
Fax: 1-800-741-6046
Email: comments@elmers.com

Emergency Phone Number:
Poison Control Center
1-888-516-2502

For additional product information, access our website at www.elmers.com. To place an order, call 1-800-848-9400.

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Specific Target Organ Toxicity - Single Exposure - Category 3 (respiratory tract, central nervous system)

GHS Label Elements

Symbol(s)



Signal Word

Warning

Hazard Statement(s)

May cause respiratory irritation. May cause drowsiness or dizziness

Precautionary Statement(s)

Prevention

Use only outdoors or in a well-ventilated area
Avoid breathing dust/fume/gas/mist/vapours/spray

Response

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor if you feel unwell

Storage

Store in a well-ventilated place. Keep container tightly closed
Store locked up

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

Statement of Unknown Toxicity

2.3% of the mixture consists of ingredient(s) of unknown acute toxicity.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent
34590-94-8	Dipropylene glycol monomethyl ether	<=2.3
7732-18-5	Water	>=97.7

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

Call a POISON CENTER or doctor/physician if you feel unwell.

Inhalation

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Skin

If on skin, wash immediately with plenty of soap and water. Get medical attention if irritation develops.

Eyes

Remove contact lenses, if present and easy to do. IMMEDIATELY wash with large amounts of warm water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

Ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious or convulsive person. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms/Effects

Acute

May cause respiratory irritation. May cause drowsiness or dizziness.

Delayed

no information on significant adverse effects.

Note to Physicians

For inhalation, consider oxygen.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use carbon dioxide, regular dry chemical, regular foam or water.

Unsuitable Extinguishing Media

None known.

Special Hazards Arising from the Chemical

Slight fire hazard.

Hazardous Combustion Products

Oxides of carbon, oxides of nitrogen

Special Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up

Stop leak if possible without personal risk. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

Environmental Precautions

Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray.

Conditions for Safe Storage, Including any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed
Store locked up

Store in accordance with all current regulations and standards. Protect from freezing. Keep separated from incompatible substances.

Incompatible Materials

oxidizing materials

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Dipropylene glycol monomethyl ether	34590-94-8
ACGIH:	100 ppm TWA
	150 ppm STEL
	Skin - potential significant contribution to overall exposure by the cutaneous route
NIOSH:	100 ppm TWA; 600 mg/m ³ TWA
	150 ppm STEL; 900 mg/m ³ STEL
	Potential for dermal absorption
	600 ppm IDLH
Europe:	50 ppm TWA; 308 mg/m ³ TWA
	Possibility of significant uptake through the skin
OSHA (US):	100 ppm TWA; 600 mg/m ³ TWA
	prevent or reduce skin absorption
Mexico:	100 ppm TWA LMPE-PPT; 60 mg/m ³ TWA LMPE-PPT
	150 ppm STEL [LMPE-CT]; 900 mg/m ³ STEL [LMPE-CT]
	Skin - potential for cutaneous absorption

Biological limit value

There are no biological limit values for any of this product's components.

Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate work clothing.

Respiratory Protection

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

Glove Recommendations

Wear appropriate gloves.

Protective Materials

protective skin cream.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	colored liquid	Physical State	liquid
Odor	Slight, ammonia odor	Color	Multiple
Odor Threshold	Not available	pH	8 - 9
Melting Point	Not available	Boiling Point	100 °C
Freezing point	0 °C	Evaporation Rate	<1 (butyl acetate=1)
Boiling Point Range	100 °C	Flammability (solid, gas)	Not available
Autoignition	Not available	Flash Point	Not available
Lower Explosive Limit	Not available	Decomposition	Not available
Upper Explosive Limit	Not available	Vapor Pressure	Not available
Vapor Density (air=1)	>1	Specific Gravity (water=1)	0.9 - 1
Water Solubility	Dilutable with water	Partition coefficient: n-octanol/water	Not available
Viscosity	<35 centistokes	Solubility (Other)	Dilutable
Density	8.85 - 11.33 lb/gal	Physical Form	liquid

Section 10 - STABILITY AND REACTIVITY

Reactivity

No hazard expected.

Chemical Stability

Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions

Will not polymerize.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

oxidizing materials

Hazardous decomposition products

Thermal decomposition products

oxides of carbon, oxides of nitrogen

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

May cause respiratory irritation. May cause drowsiness or dizziness.

Skin Contact

No information on significant adverse effects.

Eye Contact

No information on significant adverse effects.

Ingestion

No information on significant adverse effects.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Dipropylene glycol monomethyl ether (34590-94-8)
Oral LD50 Rat 5400 µL/kg
Dermal LD50 Rabbit 9500 mg/kg
Water (7732-18-5)
Oral LD50 Rat > 90 mL/kg

Immediate Effects

May cause respiratory irritation. May cause drowsiness or dizziness.

Delayed Effects

No information on significant adverse effects.

Irritation/Corrosivity Data

May cause respiratory irritation.

Respiratory Sensitization

No information available for the product.

Dermal Sensitization

No information available for the product.

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA

Germ Cell Mutagenicity

No information available for the product.

Reproductive Toxicity

No information available for the product.

Specific Target Organ Toxicity - Single Exposure

respiratory tract, central nervous system

Specific Target Organ Toxicity - Repeated Exposure

No target organs identified

Aspiration hazard

No information on significant adverse effects.

Medical Conditions Aggravated by Exposure

No data available.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

Dipropylene glycol monomethyl ether	34590-94-8
Fish:	LC50 96 h Pimephales promelas >10000 mg/L [static]
Invertebrate:	LC50 48 h Daphnia magna 1919 mg/L IUCLID

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14 - TRANSPORT INFORMATION

US DOT Information:

UN/NA #: Not Regulated

IATA Information:

UN#: Not Regulated

IMDG Information:

No Classification assigned.

TDG Information:

UN#: Not Regulated

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

Dipropylene glycol monomethyl ether	34590-94-8
SARA 313:	1 % de minimis concentration (applies to R-(OCH ₂ CH ₂) _n -OR', where n = 1, 2, or 3, R=Alkyl C7 or less, or R = Phenyl or Alkyl substituted phenyl, R' = H or Alkyl C7 or less, or OR' consisting of Carboxylic acid ester, Sulfate, Phosphate, Nitrate, or Sulfonate, Chemical Category N230) (related to Glycol ethers)

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: Yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactivity:** No

U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA
Dipropylene glycol monomethyl ether	34590-94-8	Yes	Yes	Yes	Yes	Yes
Water	7732-18-5	No	No	No	No	Yes

Not listed under California Proposition 65**Canadian WHMIS Ingredient Disclosure List (IDL)**

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Dipropylene glycol monomethyl ether	34590-94-8
	1 %

Component Analysis - Inventory

Dipropylene glycol monomethyl ether (34590-94-8)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Water (7732-18-5)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	Yes	Yes	Yes

Section 16 - OTHER INFORMATION**NFPA Ratings**

Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

New SDS: 12/12/2014

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation,

and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.

Other Information

Disclaimer:

Supplier gives no warranty whatsoever, including the warranties of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser shall determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental, consequential or any other damages arising out of the use or misuse of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights.

SAFETY DATA SHEET

8/7/2015

SECTION I - IDENTIFICATION

Material Name
SPEEDBALL PHOTO EMULSION REMOVER

Company Information
Speedball Art Products Co.
P.O. Box 5157
2301 Speedball Road
Statesville, NC 28677
Phone: 704-978-4166
Fax: 1-704-838-1472
Email: budmartin@speedballart.com

For transportation emergencies only call: 1-800-898-7224

For health emergencies call the Poison Control Center: 1-800-222-1222

SECTION II - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

There are no GHS label elements.

PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, EYE, SKIN

EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE: EYE IRRITANT.

EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE: NONE EXPECTED

CARCINOGEN LISTING: NTP: NO IARC: NO OSHA: NO

SEE SECTION III FOR COMPONENTS AFFECTED

MEDICAL CONDITIONS USUALLY AGGRAVATED BY OVER EXPOSURE TO THIS PRODUCT: NONE

SECTION III - COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

<u>Hazardous Ingredients</u>	<u>CAS/EC #</u>	<u>PEL/TLV (MG/M#)</u>	<u>Max % Weight</u>	<u>NTP</u>	<u>IARC</u>
SODIUM META-PERIODATE	7790-28-5	N/A	1.86000	N	N

SECTION IV - FIRST AID MEASURES

FIRST AID MEASURES: If eye contact occurs, rinse with tap water for 5-10 minutes. If irritation persists, seek medical care.

SECTION V - FIRE FIGHTING MEASURES

FLASH POINT (METHOD): N/A
EXPLOSION LIMITS IN AIR (% BY VOLUME): NOT EXPLOSIVE

AUTOIGNITION TEMPERATURE: N/A

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EXTINGUISHING MEDIA: NO SPECIAL MEDIA REQUIRED
FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED
UNUSUAL FIRE & EXPLOSION HAZARDS: NOT COMBUSTIBLE

SECTION VI - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE A MATERIAL IS SPILLED: Clean up in accordance with all applicable regulations. Absorb spillage with non-combustible, absorbent material. For waste disposal, see Section XIII

SECTION VII - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING STORAGE AND HANDLING: Good industrial hygiene practice requires that exposure be maintained below the TLV. This is preferably achieved through the provision of adequate ventilation. When exposure cannot be adequately controlled in this way, personal respiratory protection should be employed.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: NONE REQUIRED
OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC): NONE REQUIRED
WORK/HYGIENE PRACTICES: Keep away from eyes.
ENGINEERING CONTROLS: KEEP OUT OF REACH OF CHILDREN.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/A	MELTING POINT: N/A
VAPOR PRESSURE: N/A	SPECIFIC GRAVITY: N/A
SPECIFIC VAPOR DENSITY (AIR=1): N/A	REACTIVITY IN WATER: NON-REACTIVE
SOLUBILITY IN WATER: N/A	

SECTION X - STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION PRODUCTS: NONE
STABILITY: STABLE CONDITIONS TO AVOID: NONE
INCOMPATIBILITY (MATERIALS TO AVOID): NONE
HAZARDOUS DECOMPOSITION PRODUCTS: NONE

SECTION XI - TOXICOLOGICAL INFORMATION

ACUTE EFFECTS ASSOCIATED WITH USE OF THIS MATERIAL: EYE IRRITANT.
The summated LD50 is >50000 mg/kg.

This product is not considered to be a known or suspected human carcinogen by NTP, IARC or OSHA (see section III)

SECTION XII - ECOLOGICAL INFORMATION

NO HARMFUL EFFECTS KNOWN OTHER THAN THOSE ASSOCIATED WITH SUSPENDED INERT SOLIDS IN WATER.

SECTION XIII - DISPOSAL CONSIDERATIONS

RCRA HAZARD CLASS (40 CFR 261): THIS PRODUCT IS NOT CLASSIFIED AS A HAZARDOUS WASTE.
WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION XIV - TRANSPORTATION INFORMATION

U.S. DOT (49 CFR 172.101): THIS IS NOT A HAZARDOUS MATERIAL AS CLASSIFIED BY CFR 172.101.

SECTION XV - REGULATORY INFORMATION

CONTENTS OF THIS SDS COMPLY WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200
EPA SARA TITLE III CHEMICAL LISTINGS
NONE

SECTION 302.4 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):
NONE

SECTION 313 TOXIC CHEMICALS (40 CFR 372):
NITRIC ACID

INTERNATIONAL REGULATIONS

CANADIAN WHMIS: THIS PRODUCT IS A CONTROLLED PRODUCT UNDER CANADA'S WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. IT CONTAINS THE FOLLOWING TOXIC OR HIGHLY TOXIC MATERIALS:
NONE

SUPPLEMENTAL STATE COMPLIANCE INFORMATION:

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED UNDER NEW JERSEY'S RIGHT TO KNOW PROGRAM:
NITRIC ACID

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) REQUIRING NOTIFICATION TO THE STATE OF WASHINGTON UNDER THEIR CHILDREN'S SAFE PRODUCTS ACT:
NONE

Under CPSC's consumer product regulations (16CFR1500.3 and 1500.14), this product has the following required acute and chronic hazard labeling:

WARNING:EYE IRRITANT.

Contains: SODIUM META-PERIODATE

PRECAUTIONS:Keep away from eyes. **KEEP OUT OF REACH OF CHILDREN.**

FIRST AID TREATMENT:If eye contact occurs, rinse with tap water for 5-10 minutes. If irritation persists, seek medical care.

For acutely hazardous products, the name and place of business of the manufacturer, packer, distributor or seller must appear on the label. A US telephone # to obtain more information is recommended but not required.

SECTION XVI - OTHER INFORMATION

LAST REVISION DATE: 08/07/2015

Prepared by Duke OEM Toxicology

BRAND NAMES

THIS SDS APPLIES TO THE FOLLOWING BRAND NAMES

Brand Name

SPEEDBALL PHOTO EMULSION REMOVER

MSDS for #43215 - ACRYLIC SCRIN FBR INK

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 Ties)
Fabric Screen Printing Ink (

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that

Section I Manufacturer's Name

Emergency Telephone Number
704-838-1475

Date Prepared: January 2, 2013

Signature of Preparer (optional)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s)):	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
VOC: 85-199 grams per litre (.71-1.66 lbs. per gallon)				

Product labeling conforms to ASTM D-4236. Approved for the AP seal as per the Art & Craft Materials Institute, Inc. (ACMI). Note: This product has been certified to be non-toxic. This product has been evaluated by a Toxicologist only as per intended usage. DO NOT DEVIATE FROM INTENDED USE.

Section III - Physical/Chemical Characteristics

Boiling Point	212°F-369°F	Specific Gravity (H ₂ O = 1)	1.11-1.57
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	High viscosity; acrylic emulsion odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
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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.

(Reproduce locally)

OSHA 174, Sept. 1985

Section V - Reactivity Data

Fabric Screen Printing Ink

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Stability	Unstable	Stable ✓	Conditions to Avoid 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	Will Not Occur ✓	Conditions to Avoid N/A

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? N/A	Skin? N/A	Ingestion? N/A
Health Hazards (Acute and Chronic) N/A			
Carcinogenicity: N/A	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
Signs and Symptoms of Exposure N/A			
Medical Conditions Generally Aggravated by Exposure None known			
Emergency and First Aid Procedures Contact with eyes may cause slight irritation: Flush with water.			

Section VII - Precautions for Safe Handling and Use

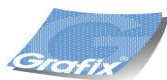
Steps to Be Taken in Case Material is Released or Spilled Floor may be slippery; use care to avoid falling. Transfer to containers for recovery or disposal. Keep out of municipal sewers and open bodies of water.
Waste Disposal Method Incineration at permitted facility. Observe all Federal, State and local laws concerning health and environment.
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 usage conditions.			
Ventilation	Local Exhaust N/A	Special N/A	
	Mechanical (General) N/A	Other N/A	
Protective Gloves Impervious	Eye Protection Safety Glasses or goggles		
Other Protective Clothing or Equipment N/A			
Work/Hygienic Practices Use protective cream where excessive skin contact is likely.			

Item Numbers: 43215-1006, 43215-1007, 43215-2006, 43215-2007, 43215-3005, 43215-3007, 43215-3045, 43215-3047, 43215-3147, 43215-3297, 43215-3717, 43215-4005, 43215-4007, 43215-4407, 43215-4505, 43215-4507, 43215-4567, 43215-5005, 43215-5007, 43215-5217, 43215-5517, 43215-5917, 43215-6506, 43215-6507, 43215-7005, 43215-7007, 43215-7277, 43215-6005, 43215-8007

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SAFETY DATA SHEET
Computer Grafix

GRX1279
August 1, 2014
Page 1 of 4

1. Identification of the Preparation and of The Company	
Product Name and/or code:	Computer Grafix
Effective Date:	8/1/2014
Manufacturer:	Grafix Inc. 5800 Pennsylvania Ave. Maple Heights, OH 44137 US
Information Contact:	216-581-9050 ; www.grafixarts.com
Emergency Contact:	216-581-9050.
Product Use:	Art material and Industrial use
Computer Grafix:	Clear Film for Inkjet Clear Adhesive Backed Film for Inkjet Matte Film for Inkjet Matte Adhesive Backed Film for Inkjet Clear Film for Laser/Copier
2. Hazards Identification	
<i>Classification of the Product:</i>	Non-Hazardous
Regulation (EC) No. 1272/2008	Not classified as dangerous for supply/use.
Directive 67/548/EEC & Directive Export and Import of Dangerous Chemicals Regulation	Not classified as dangerous for supply/use. This product and its ingredients are not listed in the Annex I of the regulation.
<i>Label Elements</i>	No special requirements are applicable.
Precaution Statement:	No special requirements are applicable.
First Aid Statement	Refer to Section 4
Children's Statement	None required.
Information pertaining to particular dangers for man and environment.	This product has not been classified as dangerous according to OSHA Hazard Communication Standard (29 CFR 1910.1200)
3. Composition/Information on Ingredients:	
Substances:	Mixture
Mixture of the following chemicals:	Proprietary Ingredients
<i>Risk and Safety Phrases:</i>	
Ingredients are marked according to CLP Regulation (CLP-Regulation (EC) No 1272/2008) and according to DSD (Dangerous Substances Directive (67/548/EEC)) and DPD (Dangerous Preparations Directive (1999/45/EC)) and no workplace-related occupational exposure limits are specified for any of the listed ingredients. These ingredients are regarded as trade secrets.	
4. First Aid Measures	
Inhalation	Not applicable
Skin Contact	There are no adverse effects anticipated.
Eye Contact	There are no adverse effects anticipated.
5. Firefighting Measures	
Extinguishing Media	Water, foam, carbon dioxide or dry chemical equipment.



SAFETY DATA SHEET
Computer Grafix

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Page 2 of 4

Flashpoint/Flammability	Films can be combusted only by remaining in contact with flame. If flame source is stationary, the film will shrink away and self-extinguish. Film remaining in contact with flame can continue to burn slowly, dropping flaming liquid which can spread the fire.
6. Accidental Release Measures	
Environmental precautions Methods and Materials for Containment and Cleaning up	None. Not applicable to this kind of material.
7. Handling and Storage	
Safe Handling Storage	Avoid extremes in high temperatures that may cause melting of the product. Store away from heat and sources of ignition. Do not store in direct sunlight. Avoid prolonged storage in high or low temperatures. Recommended storage temperatures are 20 F to 100 F (-7°C to 38°C)
8. Exposure Controls/Personal Protection	
Exposure Limits	None known.
Respiratory and Ventilation	Provide adequate ventilation.
Skin Protection	Wearing gloves may be required due to sharp edges and when film is in the molten phase.
Eye Protection	Safety glasses are recommended.
9. Physical and Chemical Properties	
Appearance	Solid Film (Sheets)
Physical State	Solid
Color	Clear or various colors
Odor	Neutral
Boiling Point	Not applicable
Melting Point	160 °C
Freezing Point	Not available
State (pH)	Not applicable
Specific Gravity	>1 (Specific Gravity for water is 1)
Viscosity	Not Known
Flashpoint	Not available
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Solubility in water	Not soluble
10. Stability and Reactivity	
Reactivity:	Not expected to be reactive.
Chemical Stability	Product is stable in typical situation and environment.
Conditions to Avoid	Avoid extremes in high temperatures.
Incompatible materials	Very reactive chemicals (strong acids)
Hazardous Decomposition	Carbon monoxide, carbon dioxide and various hydrocarbons.
11. Toxicological Information	
Health Effects	No specific acute health effects and no chronic health effects have been seen or are expected.



SAFETY DATA SHEET
Computer Grafix

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12. Ecological Information

Toxicity:	Not expected to be harmful to the environment.
Aquatic toxicity	No information available.
Persistence and degradability	Not biodegradable.
Bio accumulative potential	No information available.
Mobility in soil	No information available.
Additional ecological information	No information available.

13. Disposal Considerations

Dispose of all waste material in accordance with all applicable federal, state and local regulations for the disposal of aqueous polymer wastes.

14. Transport Information

UN-NUMBER	Not applicable
DOT, ADR, IMDG, IATA	Not applicable
UN proper shipping name	Not applicable
DOT, ADR, IMDG, IATA	Not applicable
Transport hazard class(es)	Not applicable
DOT, ADR, IMDG, IATA	Not applicable
Class	Not applicable
Label	Not applicable
Packing Group	Not applicable
DOT, ADR, IMDG, IATA	Not applicable
Environmental Hazards	Not applicable
Special precautions for user	Not applicable
Transport in bulk according to Annex II of Marpol73/878 and the IBC Code.	Not applicable

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture.	
SARA	Not applicable.
Section 355 (extremely hazardous substances)	
Section 313 (Specific toxic chemical listing)	
TSCA (Toxic Substance Control Act)	All ingredients are listed.
<i>Proposition 65</i>	
Chemicals known to cause cancer	None of the ingredients are listed
Chemicals known to cause reproductive toxicity for females	None of the ingredients are listed
Chemicals known to cause reproductive toxicity for males	None of the ingredients are listed
Chemicals known to cause developmental toxicity	None of the ingredients are listed
Carcinogenicity categories	
EPA (Environmental Protection Agency)	None.
TLV (Threshold Limit Value established by ACGIH)	None.
MAK (German Maximum Workplace Concentration)	None.
NOISH-Ca (National Institute for Occupational Safety & Health)	None.
OSHA-Ca (Occupational Safety & Health Administration)	None.

16. Other Information

Reason for Issue:	Comprehensive GHS SDS for product line
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SAFETY DATA SHEET
Computer Grafix

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August 1, 2014
Page 4 of 4

Prepared by:	Rudolph J. Jaeger, Ph.D., DABT, ERT (UK) Chief Toxicologist and President ENVIRONMENTAL MEDICINE, INC. 263 CENTER AVENUE WESTWOOD, NJ 07675 jaegerr@envmed.com 201-666-7929 x13
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The information contained in this Safety Data Sheet was compiled using the latest and most reliable information available to GRAFIX, INC. The information is provided without any warranty, express or implied regarding its correctness or accuracy nor will GRAFIX, INC. assume any liability for any loss or damage arising out of the use of this information including without limitation direct or indirect losses or expenses. To the extent permitted by law, no warranty express or implied regarding the product described herein shall be created by or inferred from any state or omission for this SDS. It is solely the responsibility of the user to determine safe conditions for use of this product and to assume liability for any loss, damage or expense whatsoever arising out of the product's improper use.

SAFETY DATA SHEET

8/7/2015

SECTION I - IDENTIFICATION**Material Name**

SPEEDBALL PHOTO EMULSION

Company Information

Speedball Art Products Co.
P.O. Box 5157
2301 Speedball Road
Statesville, NC 28677
Phone 704-978-4166
Fax 1-704-838-1472
Email budmarbn@speedballart.com

For transportation emergencies only call 1-800-898-7224

For health emergencies call the Poison Control Center 1-800-222-1222

SECTION II - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Liquid 2

GHS Label Elements**Symbol(s)****Signal Word(s)**

Danger

Hazard Statement(s)

Highly flammable liquid and vapour

Precautionary Statement(s)**Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Keep cool. Ground and bond container and receiving equipment. Use explosion-proof equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Store in a well-ventilated place.

Response

Rinse skin with water [or shower]. Take off immediately all contaminated clothing.

SECTION III - COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Hazardous Ingredients	CAS/EC #	PEL/TLV (MG/M#)	Max % Weight	NTP	IARC
ETHANOL	64-17-5	N/A	5.93000	N	N

SECTION IV - FIRST AID MEASURES

FIRST AID MEASURES: NONE REQUIRED. NO ACUTE HEALTH EFFECTS EXPECTED.

SECTION V - FIRE FIGHTING MEASURES

FLASH POINT (METHOD): N/A
EXPLOSION LIMITS IN AIR (% BY VOLUME): NOT EXPLOSIVE
EXTINGUISHING MEDIA: NO SPECIAL MEDIA REQUIRED
FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED
UNUSUAL FIRE & EXPLOSION HAZARDS: NOT COMBUSTIBLE
AUTOIGNITION TEMPERATURE: N/A

SECTION VI - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE A MATERIAL IS SPILLED: Clean up in accordance with all applicable regulations. Absorb spillage with non-combustible, absorbent material. For waste disposal, see Section XIII

SECTION VII - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING STORAGE AND HANDLING: Good industrial hygiene practice requires that exposure be maintained below the TLV. This is preferably achieved through the provision of adequate ventilation. When exposure cannot be adequately controlled in this way, personal respiratory protection should be employed.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: NONE REQUIRED
OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC): NONE REQUIRED
WORK/HYGIENE PRACTICES: NONE REQUIRED
ENGINEERING CONTROLS: NONE REQUIRED

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/A
VAPOR PRESSURE: N/A
SPECIFIC VAPOR DENSITY (AIR=1): N/A
SOLUBILITY IN WATER: N/A
MELTING POINT: N/A
SPECIFIC GRAVITY: N/A
REACTIVITY IN WATER: NON-REACTIVE

SECTION X - STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION PRODUCTS: NONE
STABILITY: STABLE CONDITIONS TO AVOID: NONE
INCOMPATIBILITY (MATERIALS TO AVOID): NONE
HAZARDOUS DECOMPOSITION PRODUCTS: NONE

SECTION XI - TOXICOLOGICAL INFORMATION

ACUTE EFFECTS ASSOCIATED WITH USE OF THIS MATERIAL: NONE EXPECTED
The summated LD50 is >50000 mg/kg.
The summated LC50 is 99999 mg/cubic meter.

This product is not considered to be a known or suspected human carcinogen by NTP, IARC or OSHA (see section III)

SECTION XII - ECOLOGICAL INFORMATION

NO HARMFUL EFFECTS KNOWN OTHER THAN THOSE ASSOCIATED WITH SUSPENDED INERT SOLIDS IN WATER.

SECTION XIII - DISPOSAL CONSIDERATIONS

RCRA HAZARD CLASS (40 CFR 261): THIS PRODUCT IS NOT CLASSIFIED AS A HAZARDOUS WASTE.
WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION XIV - TRANSPORTATION INFORMATION

U.S. DOT (49 CFR 172.101): THIS IS NOT A HAZARDOUS MATERIAL AS CLASSIFIED BY CFR 172.101.

SECTION XV - REGULATORY INFORMATION

CONTENTS OF THIS SDS COMPLY WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200
EPA SARA TITLE III CHEMICAL LISTINGS
NONE

SECTION 302.4 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):
NONE

SECTION 313 TOXIC CHEMICALS (40 CFR 372):
VINYL ACETATE

INTERNATIONAL REGULATIONS

CANADIAN WHMIS: THIS PRODUCT IS A CONTROLLED PRODUCT UNDER CANADA'S WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. IT CONTAINS THE FOLLOWING TOXIC OR HIGHLY TOXIC MATERIALS:
ETHYL ALCOHOL
VINYL ACETATE

SUPPLEMENTAL STATE COMPLIANCE INFORMATION:

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED UNDER NEW JERSEY'S RIGHT TO KNOW PROGRAM:
ETHYL ALCOHOL
VINYL ACETATE

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) REQUIRING NOTIFICATION TO THE STATE OF WASHINGTON UNDER THEIR CHILDREN'S SAFE PRODUCTS ACT:
NONE

Under CPSC's consumer product regulations (16CFR1500.3 and 1500.14), this product has the following required acute and chronic hazard labeling:

NONE

SECTION XVI - OTHER INFORMATION

LAST REVISION DATE: 08/07/2015

Prepared by Duke OEM Toxicology

BRAND NAMES

THIS SDS APPLIES TO THE FOLLOWING BRAND NAMES

Brand Name

SPEEDBALL PHOTO EMULSION
4554 - SPEEDBALL DIAZO PHOTO EMULSION

MATERIAL SAFETY DATA SHEET

4/25/2012

MANUFACTURER OR DISTRIBUTOR: **Speedball Art Products Co.**
P.O. Box 5157
2301 Speedball Road
Statesville, North Carolina 28677

INFORMATION TELEPHONE NUMBER: **704-978-4166**
 EMERGENCY TELEPHONE NUMBER: **1-800-898-7224**

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: **SPEED CLEAN** PRODUCT NUMBER: **4533&4590**
 PRODUCT SIZES: **16 OZ, 32 OZ, 1 GAL** BRAND NAME: **SPEED CLEAN**
 PRODUCT CLASS: **CLEANERS**

SECTION II - POTENTIAL HEALTH EFFECTS

PERMISSIBLE EXPOSURE LEVEL: SEE SECTION III FOR COMPONENT PEL/TLVs
 PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, EYE, SKIN

EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE: **EXPOSURE MAY CAUSE ACUTE OR DELAYED DAMAGE TO THE LUNGS. SKIN IRRITANT. EYE IRRITANT. MAY BE HARMFUL BY BREATHING DUSTS OR MISTS. CONTACT MAY RESULT IN SEVERE EYE PAIN AND IMPAIRMENT OF VISION. CONTACT MAY RESULT IN REDNESS OR PAIN OF THE EYES. CONTACT MAY RESULT IN BLISTERING OR ULCERS OF SKIN.**

EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE: NONE EXPECTED

CARCINOGEN LISTING: NTP: **NO** IARC: **NO** OSHA: **NO**

SEE SECTION III FOR COMPONENTS AFFECTED

MEDICAL CONDITIONS USUALLY AGGRAVATED BY OVER EXPOSURE TO THIS PRODUCT: ASTHMA. KIDNEY DISEASE. PREGNANCY.

SECTION III - HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>PEL/TLV (MG/M#)</u>	<u>Max % Weight</u>	<u>NTP</u>	<u>IARC</u>
SODIUM METASILICATE	6834-92-0	N/A	2.12000	N	N

SECTION IV - FIRST AID

FIRST AID MEASURES: If eye contact occurs, rinse with tap water for 5-10 minutes. If irritation persists, seek medical care. If skin contact occurs, wash with soap and water for 5 minutes.

SECTION V - FIRE FIGHTING MEASURES

FLASH POINT (METHOD): N/A AUTOIGNITION TEMPERATURE: N/A
 EXPLOSION LIMITS IN AIR (% BY VOLUME): NOT EXPLOSIVE
 EXTINGUISHING MEDIA: NO SPECIAL MEDIA REQUIRED
 FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED

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UNUSUAL FIRE & EXPLOSION HAZARDS: NOT COMBUSTIBLE

SECTION VI - SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE A MATERIAL IS SPILLED: Clean up in accordance with all applicable regulations. Absorb spillage with non-combustible, absorbent material. For waste disposal, see Section XIII

SECTION VII - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN DURING STORAGE AND HANDLING: Good industrial hygiene practice requires that exposure be maintained below the TLV. This is preferably achieved through the provision of adequate ventilation. When exposure cannot be adequately controlled in this way, personal respiratory protection should be employed.

SECTION VIII - EXPOSURE CONTROLS

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: Use NIOSH-certified mask for dusts and a locally exhausting hood appropriate for the operation.

OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC): When using wear impermeable protective gloves.

WORK/HYGIENE PRACTICES: Avoid skin contact. Avoid breathing dusts or mists. Wash hands immediately after use. Keep away from eyes.

ENGINEERING CONTROLS: **KEEP OUT OF REACH OF CHILDREN.**

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: N/A

VAPOR PRESSURE: N/A

SPECIFIC VAPOR DENSITY (AIR=1): N/A

SOLUBILITY IN WATER: N/A

MELTING POINT: N/A

SPECIFIC GRAVITY: N/A

REACTIVITY IN WATER: NON-REACTIVE

SECTION X - STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION PRODUCTS: NONE

STABILITY: STABLE CONDITIONS TO AVOID: NONE

INCOMPATIBILITY (MATERIALS TO AVOID): NONE

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

SECTION XI - TOXICOLOGICAL INFORMATION

ACUTE EFFECTS ASSOCIATED WITH USE OF THIS MATERIAL: **EXPOSURE MAY CAUSE ACUTE OR DELAYED DAMAGE TO THE LUNGS. SKIN IRRITANT. EYE IRRITANT. MAY BE HARMFUL BY BREATHING DUSTS OR MISTS. CONTACT MAY RESULT IN SEVERE EYE PAIN AND IMPAIRMENT OF VISION. CONTACT MAY RESULT IN REDNESS OR PAIN OF THE EYES. CONTACT MAY RESULT IN BLISTERING OR ULCERS OF SKIN.**

The summated LD50 is 7465.7 mg/kg.

This product is/is not considered to be a known or suspected human carcinogen by NTP, IARC or OSHA (see section III)

SECTION XII - ECOLOGICAL INFORMATION

NO HARMFUL EFFECTS KNOWN OTHER THAN THOSE ASSOCIATED WITH SUSPENDED INERT SOLIDS IN WATER.

SECTION XIII - DISPOSAL CONSIDERATIONS

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RCRA HAZARD CLASS (40 CFR 261): THIS PRODUCT IS NOT CLASSIFIED AS A HAZARDOUS WASTE.
WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION XIV - TRANSPORTATION INFORMATION

U.S. DOT (49 CFR 172.101): THIS IS NOT A HAZARDOUS MATERIAL AS CLASSIFIED BY CFR 172.101.

SECTION XV - REGULATORY INFORMATION

CONTENTS OF THIS MSDS COMPLY WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200
EPA SARA TITLE III CHEMICAL LISTINGS
NONE

SECTION 302.4 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):
NONE

SECTION 313 TOXIC CHEMICALS (40 CFR 372):
NONE

INTERNATIONAL REGULATIONS

CANADIAN WHMIS: THIS PRODUCT IS A CONTROLLED PRODUCT UNDER CANADA'S WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. IT CONTAINS THE FOLLOWING TOXIC OR HIGHLY TOXIC MATERIALS:
C11-C14 ETHOXYLATED ISOALCOHOLS
DIETHYLENE GLYCOL
SODIUM METASILICATE

SUPPLEMENTAL STATE COMPLIANCE INFORMATION:

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED IN THE STATE OF CALIFORNIA UNDER THEIR SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65) AS BEING KNOWN TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:
NONE

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) LISTED UNDER NEW JERSEY'S RIGHT TO KNOW PROGRAM:
NONE

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL(S) REQUIRING NOTIFICATION TO THE STATE OF WASHINGTON UNDER THEIR CHILDREN'S SAFE PRODUCTS ACT:
NONE

SECTION XVI - OTHER INFORMATION

THIS INFORMATION SHEET IS FOR CONSUMER USE ONLY.
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Woodhall Stopford, MD, MSPH

4/25/2012

MATERIAL SAFETY DATA SHEET

2/14/2012

MANUFACTURER OR DISTRIBUTOR: **Speedball Art Products Co.
P.O. Box 5157
2301 Speedball Road
Statesville, North Carolina 28677**

INFORMATION TELEPHONE NUMBER: **704-978-4166**
EMERGENCY TELEPHONE NUMBER: **1-800-898-7224**

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: **SPEEDBALL SUPER BLACK INDIA INK** PRODUCT NUMBER: **3338**

PRODUCT SIZES: **1 LOZ., 2 LOZ., 16 LOZ., & 32 LOZ.** BRAND NAME: **SPEEDBALL SUPER BLACK INDIA INK**

PRODUCT CLASS: **WATERPROOF DRAWING INK**

SECTION II - HAZARDOUS INGREDIENTS

Ingredient	CAS #	PEL/TLV (MG/M#)	Max % Weight	NTP	IARC
None					

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: N/A MELTING POINT: N/A

VAPOR PRESSURE: N/A

SPECIFIC VAPOR DENSITY (AIR=1): N/A SPECIFIC GRAVITY: N/A

SOLUBILITY IN WATER: N/A REACTIVITY IN WATER: NON-REACTIVE

APPEARANCE AND ODOR:

SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT (METHOD): N/A AUTOIGNITION TEMPERATURE: N/A

EXPLOSION LIMITS IN AIR (% BY VOLUME): NOT EXPLOSIVE

EXTINGUISHING MEDIA: NO SPECIAL MEDIA REQUIRED

FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED

UNUSUAL FIRE & EXPLOSION HAZARDS: NOT COMBUSTIBLE

SECTION V - PHYSICAL HAZARDS/REACTIVITY

HAZARDOUS POLYMERIZATION PRODUCTS: NONE

STABILITY: STABLE CONDITIONS TO AVOID: NONE

INCOMPATIBILITY (MATERIALS TO AVOID): NONE

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

SECTION VI - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: SEE SECTION II FOR COMPONENT PEL/TLVs

PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, EYE, SKIN

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EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE: **CONTACT MAY RESULT IN IRRITATION OF THE SKIN. CONTACT MAY RESULT IN REDNESS OR PAIN OF THE EYES.**

EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE: **EXPOSURE MAY CAUSE ITCHINESS OF THE SKIN WITH HIVES OR ECZEMA. CHRONIC EXPOSURE MAY RESULT IN DIFFICULTY WITH REPRODUCTION (CHILD BEARING).**

CARCINOGEN LISTING: NTP: **NO** IARC: **NO**

SEE SECTION II FOR COMPONENTS AFFECTED

MEDICAL CONDITIONS USUALLY AGGRAVATED BY OVER EXPOSURE TO THIS PRODUCT: PREGNANCY.

FIRST AID MEASURES: NONE REQUIRED. NO ACUTE HEALTH EFFECTS EXPECTED.

SECTION VII - SPILL OR LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN DURING STORAGE AND HANDLING: NO SPECIAL PRECAUTIONS REQUIRED.

STEPS TO BE TAKEN IN CASE A MATERIAL IS SPILLED: NO SPECIAL SPILL PROCEDURES REQUIRED.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION VIII - PROTECTIVE EQUIPMENT/CONTROL MEASURES

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: NONE REQUIRED

OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC): NONE REQUIRED

WORK/HYGIENE PRACTICES: NONE REQUIRED

SECTION IX - ADDITIONAL INFORMATION AND WARNINGS

THIS INFORMATION SHEET IS FOR CONSUMER USE ONLY.
ADDITIONAL INFORMATION AND WARNINGS: NONE REQUIRED

COMPANY: **Speedball Art Products Co.**
PRODUCT: **3338**
BRAND NAME: **SPEEDBALL SUPER BLACK INDIA INK**

2/14/2012

Woodhall Stopford, MD, MSPH 2/14/2012