

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)

Diazo Photo Emulsion (component of #4559, 4520, 4523, 4524, 4522 & 4526; 4579)

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

Speedball Art Products, LLC

Emergency Telephone Number

704-838-1475

Address (Number, Street, City, State, and ZIP Code)

2301 Speedball Road Statesville, NC 28677 USA

Telephone Number for Information

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)
Ethyl Alcohol (CAS #64-17-5)	N/A	1000ppm	N/A	4%

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	Specific Gravity (H ₂ O = 1)	1.1
Vapor Pressure (mm Hg.)	N/A	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	Light Blue with faint odor

Section IV - Fire and Explosion Hazard Data

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

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OSHA 174, Sept. 1985

Section V - Reactivity Data

Diazo Photo Emulsion

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Stability	Unstable	Stable ✓	Conditions to Avoid Onset of decomposition is 350°F
Incompatibility (<i>Materials to Avoid</i>) N/A			
Hazardous Decomposition or Byproducts			
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 (<i>Acute and Chronic</i>) 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 N/A			
Emergency and First Aid Procedures N/A			

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 (<i>Specify Type</i>) None required with adequate ventilation & normal usage conditions.			
Ventilation	Local Exhaust Adequate	Special N/A	
	Mechanical (<i>General</i>) 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.			

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Occupational Safety and Health Administration
(Non-Mandatory Form)
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IDENTITY (As Used on Label and List) Screen Drawing Fluid (4531, 4571)		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 Speedball Art Products, LLC		Emergency Telephone Number 704-838-1475	
Address (Number, Street, City, State, and ZIP Code) 2301 Speedball Road Statesville, NC 28677 USA		Telephone Number for Information 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: 0				
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	Specific Gravity (H ₂ O = 1)	1.19
Vapor Pressure (mm Hg.)	N/A	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	Blue color with slight odor

Section IV - Fire and Explosion Hazard Data

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

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OSHA 174, Sept. 1985

Section V - Reactivity Data

Screen Drawing Fluid

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Stability	Unstable	Stable ✓	Conditions to Avoid Onset of decomposition is 350°F
Incompatibility (<i>Materials to Avoid</i>) 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 (<i>Acute and Chronic</i>) 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 (<i>Specify Type</i>) None required with adequate ventilation & normal usage conditions.			
Ventilation	Local Exhaust N/A	Special N/A	
	Mechanical (<i>General</i>) 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.			

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Occupational Safety and Health Administration
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IDENTITY (As Used on Label and List)

Fabric Screen Printing Ink (45650-45652, 4560-4692, 47520-47523, 4600-4697)

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
Speedball Art Products, LLC

Emergency Telephone Number
704-838-1475

Address (Number, Street, City, State, and ZIP Code)
2301 Speedball Road Statesville, NC 28677 USA

Telephone Number for Information
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
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.			

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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 (<i>Materials to Avoid</i>) 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 (<i>Acute and Chronic</i>) 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 (<i>Specify Type</i>) None required with adequate ventilation & normal usage conditions.			
Ventilation	Local Exhaust N/A	Special N/A	
	Mechanical (<i>General</i>) 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.			

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IDENTITY (As Used on Label and List) Diazo Photo Emulsion Remover (4557)		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 Speedball Art Products, LLC		Emergency Telephone Number 704-838-1475	
Address (Number, Street, City, State, and ZIP Code) 2301 Speedball Road Statesville, NC 28677 USA		Telephone Number for Information 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)
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	Specific Gravity (H ₂ O = 1)	1.02
Vapor Pressure (mm Hg.)	N/A	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	Transparent liquid with slight detergent odor

Section IV - Fire and Explosion Hazard Data

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

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OSHA 174, Sept. 1985

Section V - Reactivity Data

Diazo Photo Emulsion Remover

Page 2

Stability	Unstable	Stable ✓	Conditions to Avoid N/A
Incompatibility (<i>Materials to Avoid</i>) Avoid contact with strong oxidizing agents			
Hazardous Decomposition or Byproducts None			
Hazardous Polymerization	May Occur	Will Not Occur ✓	Conditions to Avoid N/A

Section VI - Health Hazard Data

Route(s) of Entry: Multiple	Inhalation? See below	Skin? Can be an irritant	Ingestion? Low order of acute oral toxicity
Health Hazards (<i>Acute and Chronic</i>) Inhalation: Excessive inhalation of vapors can cause nasal and respiratory irritation. Eyes & Skin: Can be an irritant			
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 Pre-existing eye, skin, and respiratory disorders			
Emergency and First Aid Procedures Contact with eyes and skin may cause irritation: Flush with water. If irritation persists, see doctor. Ingestion: dilute by giving water. See doctor. Inhalation: move to fresh air.			

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.
Waste Disposal Method Observe all Federal, State and local laws concerning health and environment.
Precautions to Be taken in Handling and Storing N/A
Other Precautions N/A

Section VIII - Control Measures

Respiratory Protection (<i>Specify Type</i>) None required with adequate ventilation & normal usage conditions.			
Ventilation	Local Exhaust N/A	Special N/A	
	Mechanical (<i>General</i>) 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.			

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IDENTITY (<i>As Used on Label and List</i>) Screen Filler (4530, 4570)		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 Speedball Art Products, LLC		Emergency Telephone Number 704-838-1475	
Address (<i>Number, Street, City, State, and ZIP Code</i>) 2301 Speedball Road Statesville, NC 28677 USA		Telephone Number for Information 704-838-1475	
Date Prepared: January 2, 2013		Signature of Preparer (<i>optional</i>)	

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s)):	OSHA PEL	ACGIH TLV	Other Limits Recommended	%(<i>optional</i>)
VOC: .20 lbs. per gallon 24 grams per litre.				
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	Specific Gravity (H ₂ O = 1)	1.2
Vapor Pressure (mm Hg.)	N/A	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) N/A	Flammable Limits N/A	LEL N/A	UEL 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.			

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Section V - Reactivity Data

Screen Filler

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Stability	Unstable	Stable ✓	Conditions to Avoid Onset of decomposition is 350°F
Incompatibility (<i>Materials to Avoid</i>) 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 (<i>Acute and Chronic</i>) 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 (<i>Specify Type</i>) None required with adequate ventilation & normal usage conditions.			
Ventilation	Local Exhaust N/A	Special N/A	
	Mechanical (<i>General</i>) 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.			

Speedball Art Products, LLC
2301 Speedball Rd Statesville, NC 28677
PHONE: 800-898-7224
Speedballart.com

MSDS

1. Substance/Product Identification

Trade name: Diazo Oil SS, Negative water-soluble oil.

Chemical name: 4-Diazodiphenylamine / formaldehyde condensate hydrogen phosphate complex (common name).
Benzenediazonium, 4-(phenylamino)-, sulfate (1:1), polymer with formaldehyde, Phosphoric acid (chemical abstract names)

CAS Number: 71550-45-3

Molecular formula: (C₁₂H₁₀N₃.CH₂O.HO₄P.)_n

2. Composition, Information on Ingredients

Assay: 80-85% (ultraviolet spectrum)
Moisture: 8-10%

3. Hazards Identification

Risk phrases: R 36/37/38: Irritating to eyes, respiratory system and skin.

Safety phrases: S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

Exposure limits: Not established. Use standard chemical manufacturing and good housekeeping procedures to control dust and expos

4. First Aid Procedures

If inhaled, move person to fresh air. If cough or other respiratory symptoms develop, consult medical personnel.

If swallowed, wash out mouth with water provided the person is conscious. If gastrointestinal symptoms develop, consult medical personnel.

In case of eye contact, immediately flush eyes with copious quantities of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with the fingers. If redness, itching or a burning sensation develops, consult medical personnel.

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.

5. Fire Fighting Measures

Extinguishing media: Water fog, carbon dioxide, dry chemical powder or appropriate foam.

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

Special fire fighting protective equipment: Self-contained breathing apparatus, full-face mask and protective clothing to prevent skin and eye contact with the product and decomposition products.

6. Accidental Release Measures

If spilled wear skin and eye protection during clean up. Sweep up, place in a heavy plastic bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash the spill site with copious amounts of water after material pick-up is completed. Wash water must be disposed of in accordance with local discharge regulations. Comply with all federal, state and local spill regulations.

7. Handling and Storage

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

Storage: Keep container tightly closed. Store in a cool dry place and away from light.

8. Exposure Controls / Personal Protection

Exposure control: Adequate ventilation is required. Safety shower and eyewash station should be available in the work area.

Personal protection:

Respiratory protection:	Appropriate respirator is required.
Hand protection:	Chemical resistant gloves.
Eye protection:	Safety goggles.
Skin protection:	Protective clothing.
Hygiene protection:	Take off contaminated clothing, shower with plenty of soap and water and always wash contaminated clothing before re-use.

9. Physical and Chemical Properties

Appearance:	Yellow to greenish, free flowing
Boiling point:	No data
Vapor pressure:	No data
Vapor density:	No data
Flammable limits:	Not applicable
Flash point:	Not applicable
Solubility in water:	Soluble
Solubility in organic solvents:	Insoluble
Specific gravity:	Approximately 0.5

10. Stability and Reactivity

Stability: Stable under normal conditions. Decomposition occurs above 120 °C.

Conditions to avoid: Heat and light.

Materials to avoid: Strong oxidizing agents, strong bases.

Hazardous decomposition products: Carbon dioxide, carbon monoxide, nitrogen oxides and sulfur oxides.

11. Toxicological Information

LD50 : Not determined. SAR suggests that oral rat is probably ≥ 5 g/kg.

Skin irritation: Very slightly too slightly irritating

Eye irritation: Irritating, harmful.

Inhalation: Irritating.

12. Ecological Information

Observe all federal, state and local environmental regulations.

13. Disposal Considerations

Mix the material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and a scrubber.

14. Transport Information

The US Department of Transportation and IATA does not currently regulate Diazo Sensitizer

15. Regulatory Information

This compound is listed on the EPA TSCA Inventory.

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 based on the date believed to be reliable and is presented in good faith. It's however, furnished without warranty or guarantee of any kind and Speedball Art Products, LLC. disclaims any liability incurred from the use or reliance upon the same.