

ENG SCIENTIFIC, INC.
(a.k.a., A.J.P. SCIENTIFIC, INC.)

MATERIAL SAFETY DATA SHEET

SECTION I

Manufacturer: ENG Scientific, Inc. (a.k.a., A.J.P. Scientific, Inc.)

Address: P.O. Box 1589 - Clifton, NJ 07015

For Information on Health Hazards Call: (973) 472-7200

Product Name: QuickSlide Stain (Wright Giemsa)

Product Number: 29,000

SECTION II - HAZARDOUS INGREDIENTS

Component:	Methanol	CAS #	67-56-1
	Wright Stain		68988-92-1
	Giemsa Stain		51811-82-6
NIOSH Registry No. PC1400000			
NFPA RATINGS:	- HEALTH:		2
	- FLAMMABILITY:		3
	- REACTIVITY:		0

SECTION III - PHYSICAL DATA

Boiling Point, 101.325 kPa > 760 mm Hg	64.7°C (150°F)
Specific Gravity (H ₂ O = 1)	0.7922 @ 20/20°C
Vapor Density (air = 1) 1.1	Solubility in H ₂ O = Complete
Percent Volatiles by Volume = 100	Vapor Pressure = 12.8 kPa
Freezing Point -97.68°C	Evaporation Rate = 5.8
Appearance - Liquid, dark purple	Odor - Faint alcoholic

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (test methods)	52°F, Tag Closed Cup ASTM D 56
	58°F, Tag Open Cup ASTM D 1310

Flammable Limits in Air, % by volume: Lower=6.0 Upper=36.0

Fire and Explosion Hazards: Flammable. Flame is invisible in daylight.
Methanol-water mixtures will burn unless very dilute;

25% or more methanol are DOT Class I flammable liquids.

Extinguishing Media: Use water spray, carbon dioxide, dry chemical, alcohol-type or universal type foams.

Special Fire Fighting Procedures: Use water spray to cool tanks or containers.

SECTION V - REACTIVITY DATA

Stability: Stable

Incompatibility: Reacts vigorously with strong oxidizers, chromic anhydride, lead perchlorate, perchloric acids.

Decomposition: Occurs from heat and reaction with materials above.

Hazardous Polymerization: Will not occur.

SECTION VI - HEALTH HAZARD INFORMATION

Exposure Limits: OSHA 8-hour Time Weighted Average (TWA) and ACGIH TLV TWA = 200 ppm, 260 mg/m³. ACGIH adds "skin" notation.

Significant Routes and Effects of Exposure: Harmful if inhaled. May be fatal or cause blindness if swallowed. Cannot be made non-poisonous. May cause irritation.

LD50 (oral, rats) = 12,900 mg/kg; LC50 (rats, 1 hour) = 145,000 ppm.

Safety Precautions: Avoid contact with eyes, skin or clothing. Avoid prolonged or repeated breathing of vapor. Wash thoroughly after handling.

First Aid: If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat. If inhaled, remove to fresh air. If not breathing, give artificial respiration; preferably mouth-to-mouth. If breathing is difficult, give oxygen. In case of eye or skin contact, immediately flush with water for at least 15 minutes. Call a physician.

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Wear gloves and soak up spilled solution with disposable towels.

Waste disposal method: Small spills should be flushed with large quantities of water. Large spills should be collected for disposal.

Waste Disposal Method: Flush with water, controlled burning.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation: General (mechanical) room ventilation should be suitable. Special local, ventilation should be used at points where vapors are expected to be vented to the workplace air.

Protective Gloves: Solvent resistant.

Eye Protection: Goggles or safety glasses.

Other Protective Equipment: Lab Coat. Eye bath, safety shower.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Protect units against physical damage.

Other precautions: Store cool, dry area. Store in tightly closed container. Do not ingest.

Note: Disposal of hazardous material may be subject to federal, state, or local regulations. The information contained in this document is believed to be factual, however, nothing presented herein is to be taken as a warranty or representation for which ENG Scientific, Inc. (a.k.a., A.J.P. Scientific, Inc.) shall be responsible.

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Address: P.O. Box 1589 - Clifton, NJ 07015

For Information on Health Hazards Call: (973) 472-7200

Product Name: QuickSlide Buffer (Wright Giemsa)

Product Number: 29,000

SECTION II - HAZARDOUS INGREDIENTS

Component: Sodium Phosphate, Dibasic CAS # 7558-79-4
(Anhydrous and Heptahydrate)

NFPA RATINGS: - HEALTH: 0
- FLAMMABILITY: 0
- REACTIVITY: 0

SECTION III - PHYSICAL DATA

Boiling Point, 101.325 kPa > NA
760 mm Hg

Specific Gravity (H₂O = 1)

Vapor Density (air = 1)

Solubility in H₂O = Soluble

Percent Volatiles by Volume = NA

Vapor Pressure = NA

Freezing Point = NA

Evaporation Rate = NA

Appearance - Colorless liquid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point NA
(test methods)

Flammable Limits in Air, % by volume: Lower= Upper=

Extinguishing Media: Use any medium suitable for extinguishing the supporting fire.

Special Fire Fighting Procedures: Wear a self-contained breathing apparatus while fighting the fire.

SECTION V - REACTIVITY DATA

Stability: Stable

Incompatibility: Alkaloids, antipyrine, chloral hydrate, lead acetate, pyrogallol, resorcinol.

Decomposition: Occurs from heat and reaction with materials above.

Hazardous Polymerization: Will not occur.

SECTION VI - HEALTH HAZARD INFORMATION

Threshold Limit Value: Oral LD50 (Rat) = 12,930 mg/Kg

Effects of Exposure: Material is essentially non-toxic - used as a nutrient and/or dietary food additive. Could be classified as a mild irritant to eyes, skin and mucous membranes.

Safety Precautions: Wear protective rubber gloves, safety glasses or goggles, lab coat or coveralls.

First Aid: If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat. If inhaled, remove to fresh air. If not breathing, give artificial respiration; preferably mouth-to-mouth. If breathing is difficult, give oxygen. In case of eye or skin contact, immediately flush with water for at least 15 minutes. Call a physician.

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Wear gloves and soak up spilled solution with disposable towels.
Waste disposal method: Small spills should be flushed with large quantities of water. Large spills should be collected for disposal.
Dilute and wash down drain with excess water.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation: General (mechanical) room ventilation should be suitable. Special local, ventilation should be used at points where vapors are expected to be vented to the workplace air.
Protective Gloves: Solvent resistant.
Eye Protection: Goggles or safety glasses.
Other Protective Equipment: Lab Coat. Eye bath, safety shower.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Protect units against physical damage.
Other precautions: Store cool, dry area. Store in tightly closed container. Do not ingest.

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Address: P.O. Box 1589 - Clifton, NJ 07015

For Information on Health Hazards Call: (973) 472-7200

Product Name: QuickSlide Rinse (Wright Giemsa)

Product Number: 29,000

SECTION II - HAZARDOUS INGREDIENTS

Component: Methanol CAS # 67-56-1
Chemical Family: Alcohol Formula: CH₃OH
NIOSH Registry No. PC1400000
NFPA RATINGS: - HEALTH: 2
- FLAMMABILITY: 2
- REACTIVITY: 0

SECTION III - PHYSICAL DATA

Boiling Point, 101.325 kPa >
760 mm Hg 86°C (188°F)

Specific Gravity (H₂O = 1) 0.7922 @ 20/20°C

Vapor Density (air = 1) 1.1 Solubility in H₂O = Complete

Percent Volatiles by Volume = 20 Vapor Pressure = 12.8 kPa

Freezing Point -97.68°C Evaporation Rate = 5.8

Appearance - Liquid, clear/colorless Odor - Faint alcoholic

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point 108°F, Tag Closed Cup ASTM D 56
(test methods)

Flammable Limits in Air, % by volume: Lower=6.0 Upper=36.0

Fire and Explosion Hazards: Flammable. Flame is invisible in daylight.
Methanol-water mixtures will burn unless very dilute.

Extinguishing Media: Use water spray, carbon dioxide, dry chemical,
alcohol-type or universal type foams.

Special Fire Fighting Procedures: Use water spray to cool tanks or
containers.

SECTION V - REACTIVITY DATA

Stability: Stable

Incompatibility: Reacts vigorously with strong oxidizers, chromic
anhydride, lead perchlorate, perchloric acids.

Decomposition: Occurs from heat and reaction with materials above.

Hazardous Polymerization: Will not occur.

SECTION VI - HEALTH HAZARD INFORMATION

Exposure Limits: OSHA 8-hour Time Weighted Average (TWA) and ACGIH TLV TWA = 200 ppm, 260 mg/m³. ACGIH adds "skin" notation. Significant Routes and Effects of Exposure: Harmful if inhaled. May be fatal or cause blindness if swallowed. Cannot be made non-poisonous. May cause irritation. LD50 (oral, rats) = 12,900 mg/kg; LC50 (rats, 1 hour) = 145,000 ppm. Safety Precautions: Avoid contact with eyes, skin or clothing. Avoid prolonged or repeated breathing of vapor. Wash thoroughly after handling. First Aid: If swallowed, induce vomiting immediately by giving two glasses of water and sticking fingers down throat. If inhaled, remove to fresh air. If not breathing, give artificial respiration; preferably mouth-to-mouth. If breathing is difficult, give oxygen. In case of eye or skin contact, immediately flush with water for at least 15 minutes. Call a physician.

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Wear gloves and soak up spilled solution with disposable towels. Waste disposal method: Small spills should be flushed with large quantities of water. Large spills should be collected for disposal. Waste Disposal Method: Flush with water, controlled burning.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation: General (mechanical) room ventilation should be suitable. Special local, ventilation should be used at points where vapors are expected to be vented to the workplace air. Protective Gloves: Solvent resistant. Eye Protection: Goggles or safety glasses. Other Protective Equipment: Lab Coat. Eye bath, safety shower.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Protect units against physical damage. Other precautions: Store cool, dry area. Store in tightly closed container. Do not ingest.

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