

Material Safety Data Sheet

GSK-1-MSDS

Rev. Date: April 28, 2011 **Revision: 2**

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P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Fax (435) 755-0015 - www.scytek.com

Gram Stain Kit

Kit Contents:

Item #	Kit Contents	<u>Volume</u>	<u>Storage</u>
GVS125	Gentian Violet Solution	125 ml	Room Temperature
LIS125	Lugol's Iodine Solution	125 ml	Room Temperature
GDS125	Gram's Decolorizer Solution	125 ml	Room Temperature
CFX125	Carbol Fuchsin Counterstain	125 ml	Room Temperature
TZQ125	Tartrazine Solution	125 ml	Room Temperature

PRODUCT NAME:	Gentian Violet Solution
CATALOG #:	GVS
PRODUCT DESCRIPTION:	Histology stain.
COMPOSITION:	Water, CAS# 7732-18-5
	Ethyl Alcohol, CAS# 64-17-5
	Isopropyl Alcohol, CAS# 67-63-0
	Ammonium Oxalate, CAS# 6009-70-7
	Crystal Violet, CAS# 548-62-9
	May contain additional non-hazardous proprietary ingredients.
PHYSICAL DATA:	
APPEARANCE / ODOR	Dark purple liquid. Mild alcohol odor.
SOLUBILITY IN WATER	Soluble.
VAPOR DENSITY	N/A
VAPOR PRESSURE	N/A
EVAPORATION RATE	N/A
MELTING POINT	N/A
BOILING POINT	N/A
FLASH POINT	N/A
AUTO-IGNITION POINT	N/A
LOWER EXPLOSIVE LIMIT IN AIR	N/A
UPPER EXPLOSIVE LIMIT IN AIR	N/A
FIRE AND EXPLOSION HAZARD DATA:	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry chemical.
	Wear personal protection equipment, including a self-contained breathing
	apparatus (S.C.B.A.)
	May produce flammable vapors under fire conditions.
REACTIVITY DATA:	
STABILITY	Stable under normal temperatures and pressures.
INCOMPATIBLE MATERIALS	Slightly reactive to reactive with oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide, carbon dioxide.
HAZARDOUS POLYMERIZATION	None reported.
HEALTH HAZARD DATA:	
ACUTE EFFECTS:	Eye Contact: May cause irritation and redness.
	Skin Contact: May irritate skin.
	Ingestion: May irritate gastrointestinal system.
	Inhalation: May irritate respiratory tract.

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CHRONIC EFFECTS:	Eye Contact: Unknown.	
	Skin Contact: Unknown.	
	Ingestion: Unknown.	
	Inhalation: Unknown.	
FIRST AID:	Eye Contact: Immediately flush eyes with copious amounts of water and	
	get immediate medical attention.	
	Skin Contact: Remove contaminated clothing and wash contact area with	
	mild soap and copious amounts of water. Get medical attention if irritation	
	develops.	
	Inhalation: Remove person to fresh air. Get medical attention if symptoms	
	worsen.	
	Ingestion: Get immediate medical attention.	
ADDITIONAL INFORMATION:		
HMIS HAZARD CODES:	HEALTH 1	
	FLAMMABILITY 2	
	PHYSICAL HAZARD 0	
	PERSONAL PROTECTION H	
SPILL OR LEAK PROCEDURES:	Wear chemical resistant clothing, gloves, and eye protection. Wear	
	NIOSH/MSHA approved breathing apparatus. Keep material away from	
	heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill	
	using inert absorbent and place in a suitable waste container for disposal.	
WASTE DISPOSAL METHOD:	Observe all federal, state and local environmental regulations.	
PRECAUTIONS TO BE TAKEN IN	Wear protective clothing.	
HANDLING AND STORAGE:	Avoid contact with skin and eyes. Wash thoroughly after handling.	
	Irritant.	
	Keep container tightly closed.	
ADDITIONAL COMMENTS:	Avoid breathing vapor.	
ADDITIONAL COMMENTS:	The above information is believed to be correct but does not purport to be all	
	inclusive and shall be used only as a guide. ScyTek Laboratories shall not	
	be held liable for any damage resulting from handling or from contact with	
	the above product.	

PRODUCT NAME:	Lugol's lodine Solution
CATALOG #:	LIS
PRODUCT DESCRIPTION:	Laboratory reagent.
COMPOSITION:	Water, CAS# 7732-18-5
	Potassium Iodide, CAS# 7681-11-0
	lodine, CAS# 7553-56-2
	May contain additional non-hazardous proprietary ingredients.
PHYSICAL DATA:	
APPEARANCE / ODOR	Dark amber/brown slightly transparent liquid. Slight iodine odor.
SOLUBILITY IN WATER	Soluble.
VAPOR DENSITY	N/A
VAPOR PRESSURE	N/A
EVAPORATION RATE	N/A
MELTING POINT	N/A
BOILING POINT	N/A

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FLASH POINT	Aqueous solution.		
AUTO-IGNITION POINT	Aqueous solution.		
LOWER EXPLOSIVE LIMIT IN AIR	Aqueous solution.		
UPPER EXPLOSIVE LIMIT IN AIR	Aqueous solution.		
FIRE AND EXPLOSION HAZARD DATA:	Extinguish fire using water spray, carbon diox chemical. Wear personal protection equipment, includir apparatus (S.C.B.A.) May release corrosive iodine vapor under fire	ng a se	If-contained breathing
REACTIVITY DATA:			
STABILITY	Stable under normal temperatures and press	ures.	
INCOMPATIBLE MATERIALS	Reactive with metals, organic materials, and	other c	ombustible materials.
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic chlorides and iodides.		
HAZARDOUS POLYMERIZATION	None reported.		
HEALTH HAZARD DATA:			
ACUTE EFFECTS:	Eye Contact: May cause irritation and redness. Skin Contact: May irritate skin. Ingestion: May irritate gastrointestinal system. Slightly toxic by ingestion. Inhalation: May irritate respiratory tract.		
CHRONIC EFFECTS:	Eye Contact: Unknown. Skin Contact: Unknown. Ingestion: Unknown. Inhalation: Unknown.		
FIRST AID:	Eye Contact: Immediately flush eyes with copious amounts of water and get immediate medical attention. Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops. Inhalation: Remove person to fresh air. Get medical attention if symptoms worsen. Ingestion: Get immediate medical attention.		
ADDITIONAL INFORMATION:	geo		
HMIS HAZARD CODES:	HEALTH FLAMMABILITY PHYSICAL HAZARD PERSONAL PROTECTION	2 0 0 B	
SPILL OR LEAK PROCEDURES:	Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.		
WASTE DISPOSAL METHOD:	Observe all federal, state and local environmental regulations.		
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:	Wear protective clothing. Avoid contact with skin and eyes. Wash thoroughly after handling. Irritant. Keep container tightly closed. Avoid breathing vapor.		

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ADDITIONAL COMMENTS:	The above information is believed to be correct but does not purport to be all
	inclusive and shall be used only as a guide. ScyTek Laboratories shall not
	be held liable for any damage resulting from handling or from contact with
	the above product.

PRODUCT NAME: CATALOG #: PRODUCT DESCRIPTION: Laboratory reagent. Acetone, CAS# 67-64-1 Ethyl alcohol, CAS# 67-63-0 May contain additional non-hazardous proprietary ingred PHYSICAL DATA: APPEARANCE / ODOR Transparent colorless liquid. Acetone odor. SOLUBILITY IN WATER VAPOR DENSITY VAPOR DENSITY VAPOR PRESSURE VAPOR DENSITY VAPOR PRESSURE VAPORATION RATE MELTING POINT BOILING POINT FLASH POINT AUTO-IGNITION POINT AUTO-IGNITION POINT LOWER EXPLOSIVE LIMIT IN AIR FIRE AND EXPLOSIVE LIMIT IN AIR FIRE AND EXPLOSION HAZARD DATA: BEACTIVITY DATA: STABILITY STABI	
PRODUCT DESCRIPTION: COMPOSITION: Laboratory reagent. Acetone, CAS# 67-64-1 Ethyl alcohol, CAS# 67-63-0 May contain additional non-hazardous proprietary ingred PHYSICAL DATA: APPEARANCE / ODOR Transparent colorless liquid. Acetone odor. SOLUBILITY IN WATER Soluble. VAPOR DENSITY N/A VAPOR PRESSURE N/A EVAPORATION RATE N/A BOILING POINT N/A BOILING POINT AUTO-IGNITION POINT LOWER EXPLOSIVE LIMIT IN AIR UPPER EXPLOSIVE LIMIT IN AIR UPPER EXPLOSIVE LIMIT IN AIR EXINGUISH FUNCTION FOR Extinguish fire using water spray to cool surrounding madioxide, alcohol foam, or dry chemical. Wear personal protection equipment, including a self-coapparatus (S.C.B.A.) Flammable vapors may travel along the ground to a distand flash back. REACTIVITY DATA: STABILITY INCOMPATIBLE MATERIALS HAZARDOUS DECOMPOSITION PRODUCTS HAZARDOUS POLYMERIZATION None reported. Eye Contact: May cause irritation and redness. Skin Contact: May irritate gastrointestinal system. May ca of coordination, and/or drowsiness. Inhalation: May irritate respiratory tract.	
COMPOSITION: Acetone, CAS# 67-64-1 Ethyl alcohol, CAS# 64-17-5 Isopropyl alcohol, CAS# 67-63-0 May contain additional non-hazardous proprietary ingred PHYSICAL DATA: APPEARANCE / ODOR SOLUBILITY IN WATER VAPOR DENSITY VAPOR PRESSURE N/A EVAPORATION RATE BOILING POINT BOILING POINT AUTO-IGNITION POINT LOWER EXPLOSIVE LIMIT IN AIR UPPER EXPLOSIVE LIMIT IN AIR FIRE AND EXPLOSION HAZARD DATA: FIRE AND EXPLOSION HAZARD DATA: REACTIVITY DATA: STABILITY STABILITY Stable under normal temperatures and pressures. REACTIVITY DATA: STABILITY Stable under normal temperatures and pressures. STABILITY Stable under normal temperatures and pressures. Carbon monoxide, carbon dioxide. PRODUCTS HAZARDOUS POLYMERIZATION HEALTH HAZARD DATA: Sy CACUTE EFFECTS: Etye Contact: May cause irritation and redness. Skin Contact: May irritate gastrointestinal system. May cause irritation and redness. Skin Contact: May irritate respiratory tract.	
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LOWER EXPLOSIVE LIMIT IN AIR UPPER EXPLOSIVE LIMIT IN AIR 12.8% (Acetone) Extinguish fire using water spray to cool surrounding madioxide, alcohol foam, or dry chemical. Wear personal protection equipment, including a self-corapparatus (S.C.B.A.) Flammable vapors may travel along the ground to a distrant flash back. REACTIVITY DATA: STABILITY Stable under normal temperatures and pressures. INCOMPATIBLE MATERIALS HAZARDOUS DECOMPOSITION PRODUCTS HAZARDOUS POLYMERIZATION HEALTH HAZARD DATA: ACUTE EFFECTS: Eye Contact: May cause irritation and redness. Skin Contact: May irritate gastrointestinal system. May cause of coordination, and/or drowsiness. Inhalation: May irritate respiratory tract.	
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FIRE AND EXPLOSION HAZARD DATA: Extinguish fire using water spray to cool surrounding madioxide, alcohol foam, or dry chemical. Wear personal protection equipment, including a self-corapparatus (S.C.B.A.) Flammable vapors may travel along the ground to a distrant flash back. REACTIVITY DATA: STABILITY Stable under normal temperatures and pressures. INCOMPATIBLE MATERIALS Strong oxidizers. HAZARDOUS DECOMPOSITION PRODUCTS HAZARDOUS POLYMERIZATION HEALTH HAZARD DATA: ACUTE EFFECTS: Eye Contact: May cause irritation and redness. Skin Contact: May irritate gastrointestinal system. May cause of coordination, and/or drowsiness. Inhalation: May irritate respiratory tract.	
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PRODUCTS HAZARDOUS POLYMERIZATION None reported. HEALTH HAZARD DATA: ACUTE EFFECTS: Eye Contact: May cause irritation and redness. Skin Contact: May irritate skin. Ingestion: May irritate gastrointestinal system. May ca of coordination, and/or drowsiness. Inhalation: May irritate respiratory tract.	
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Ingestion: May irritate gastrointestinal system. May ca of coordination, and/or drowsiness. Inhalation: May irritate respiratory tract.	
Inhalation: May irritate respiratory tract.	use dizziness, loss
CHRONIC EFFECTS: Eye Contact: Unknown.	
Undonic Effects. Eye Contact: Unknown.	
Skin Contact: Unknown.	
Ingestion: Unknown.	
Inhalation: Unknown.	
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FIRST AID:	Eye Contact: Immediately flush eyes with copious amounts of water and get immediate medical attention. Skin Contact: Remove contaminated clothing and wash contact area with mild soap and copious amounts of water. Get medical attention if irritation develops. Inhalation: Remove person to fresh air. Get medical attention if symptoms worsen.	
	Ingestion: Get immediate medical attention.	
ADDITIONAL INFORMATION:		
HMIS HAZARD CODES:	HEALTH 1	
	FLAMMABILITY 3	
	PHYSICAL HAZARD 0	
	PERSONAL PROTECTION G	
	TENEGRALITIONE G	
SPILL OR LEAK PROCEDURES:	Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.	
WASTE DISPOSAL METHOD:	Observe all federal, state and local environmental regulations.	
PRECAUTIONS TO BE TAKEN IN	Wear protective clothing.	
HANDLING AND STORAGE:	Avoid contact with skin and eyes. Wash thoroughly after handling.	
	Irritant.	
	Keep container tightly closed. Use in a chemical fume hood.	
	Avoid breathing vapor.	
ADDITIONAL COMMENTS:	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.	

PRODUCT NAME:	Carbol Fuchsin Counterstain
CATALOG #:	CFX
PRODUCT DESCRIPTION:	Carbol Fuchsin Counterstain is intended for use in histological staining
	procedures.
COMPOSITION:	Water, CAS# 7732-18-5
	Ethanol, CAS# 64-17-5
	Phenol, CAS# 108-95-2
	Fuchsin, Basic, CAS# 632-99-5
	May contain additional non-hazardous proprietary ingredients.
PHYSICAL DATA:	
APPEARANCE / ODOR	Transparent red liquid. Slight phenol odor.
SOLUBILITY IN WATER	Soluble.
VAPOR DENSITY	N/A
VAPOR PRESSURE	N/A
EVAPORATION RATE	N/A
MELTING POINT	N/A
BOILING POINT	N/A
FLASH POINT	N/A

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AUTO-IGNITION POINT	N/A	
LOWER EXPLOSIVE LIMIT IN AIR	N/A	
UPPER EXPLOSIVE LIMIT IN AIR	N/A	
FIRE AND EXPLOSION HAZARD DATA:	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry	
	chemical.	
	Wear personal protection equipment, including a self-contained breathing	
	apparatus (S.C.B.A.)	
REACTIVITY DATA:	May produce flammable vapors.	
STABILITY	Stable.	
INCOMPATIBLE MATERIALS	Oxidizing agents.	
HAZARDOUS DECOMPOSITION	Carbon monoxide, carbon dioxide, nitrogen oxides, hydrogen chloride gas,	
PRODUCTS	Carbon monoxide, carbon dioxide, miliogen oxides, mydrogen chionde gas,	
HAZARDOUS POLYMERIZATION	Not reported.	
HEALTH HAZARD DATA:	The tropolica.	
ACUTE EFFECTS:	Eye Contact: May cause irritation and redness.	
	Skin Contact: May irritate skin.	
	Ingestion: May irritate gastrointestinal system.	
	Inhalation: May irritate respiratory tract.	
CHRONIC EFFECTS:	Eye Contact: Unknown.	
	Skin Contact: Unknown.	
	Ingestion: Unknown.	
	Inhalation: Unknown.	
FIRST AID:	Eye Contact: Immediately flush eyes with copious amounts of water and	
	get immediate medical attention.	
	Skin Contact: Remove contaminated clothing and wash contact area with	
	mild soap and copious amounts of water. Get medical attention if irritation develops.	
	Inhalation: Remove person to fresh air. Get medical attention if symptoms	
	worsen.	
	Ingestion: Get immediate medical attention.	
ADDITIONAL INFORMATION:		
HMIS HAZARD CODES:	HEALTH 2	
	FLAMMABILITY 1	
	PHYSICAL HAZARD 0	
	PERSONAL PROTECTION H	
CDUL OR LEAK DROCEDURES.	Manual control and the state of	
SPILL OR LEAK PROCEDURES:	Wear chemical resistant clothing, gloves, and eye protection. Wear	
	NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill	
	using inert absorbent and place in a suitable waste container for disposal.	
WASTE DISPOSAL METHOD:	Observe all federal, state and local environmental regulations.	
PRECAUTIONS TO BE TAKEN IN	Wear protective clothing.	
HANDLING AND STORAGE:	Avoid contact with skin and eyes. Wash thoroughly after handling.	
	Keep tightly closed.	
	Irritant.	
	Keep container tightly closed.	
	Use in a chemical fume hood.	
	Avoid breathing vapor.	
ADDITIONAL COMMENTS:	The above information is believed to be correct but does not purport to be all	

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	inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with the above product.
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PRODUCT NAME:	Tartrazine Solution
CATALOG #:	TZQ
PRODUCT DESCRIPTION:	Laboratory reagent often used a histology counterstain.
COMPOSITION:	Water, CAS# 7732-18-5
	Acetic Acid, CAS# 64-19-7
	Tartrazine, CAS# 1934-21-0
	May contain additional non-hazardous proprietary ingredients.
PHYSICAL DATA:	
APPEARANCE / ODOR	Transparent yellow liquid. Very slight acetic acid odor.
SOLUBILITY IN WATER	Soluble.
VAPOR DENSITY	N/A
VAPOR PRESSURE	N/A
EVAPORATION RATE	N/A
MELTING POINT	N/A
BOILING POINT	N/A
FLASH POINT	Aqueous solution.
AUTO-IGNITION POINT	Aqueous solution.
LOWER EXPLOSIVE LIMIT IN AIR	Aqueous solution.
UPPER EXPLOSIVE LIMIT IN AIR	Aqueous solution.
FIRE AND EXPLOSION HAZARD DATA:	Extinguish fire using water spray, carbon dioxide, chemical foam, or dry
	chemical.
	Wear personal protection equipment, including a self-contained breathing
	apparatus (S.C.B.A.)
	No unusual fire or explosion hazards expected.
REACTIVITY DATA:	
STABILITY	Stable under normal temperatures and pressures.
INCOMPATIBLE MATERIALS	Strong oxidizing agents.
HAZARDOUS DECOMPOSITION	Carbon monoxide, carbon dioxide.
PRODUCTS	Al
HAZARDOUS POLYMERIZATION	None reported.
HEALTH HAZARD DATA: ACUTE EFFECTS:	For Oratesta Management in the first and an income
ACUTE EFFECTS:	Eye Contact: May cause irritation and redness.
	Skin Contact: May irritate skin. Ingestion: May irritate gastrointestinal system.
	Inhalation: May irritate gastrointestinal system. Inhalation: May irritate respiratory tract.
CHRONIC EFFECTS:	Eye Contact: Unknown.
Officials El 1 Es 13.	Skin Contact: Unknown.
	Ingestion: Unknown.
	Inhalation: Unknown.
FIRST AID:	Eye Contact: Immediately flush eyes with copious amounts of water and
	get immediate medical attention.
	Skin Contact: Remove contaminated clothing and wash contact area with
	mild soap and copious amounts of water. Get medical attention if irritation
	develops.
	Inhalation: Remove person to fresh air. Get medical attention if symptoms
	worsen.
	Ingestion: Get immediate medical attention.



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ADDITIONAL INFORMATION:			
HMIS HAZARD CODES:	HEALTH	1	
	FLAMMABILITY	0	
	PHYSICAL HAZARD	0	
	PERSONAL PROTECTION	В	
SPILL OR LEAK PROCEDURES:	Wear chemical resistant clothing, gloves, and eye protection. Wear NIOSH/MSHA approved breathing apparatus. Keep material away from heat, flame, ignition sources, and reactive materials. Wipe up or absorb spill using inert absorbent and place in a suitable waste container for disposal.		
WASTE DISPOSAL METHOD:	Observe all federal, state and local environmental regulations.		
PRECAUTIONS TO BE TAKEN IN	Wear protective clothing.		
HANDLING AND STORAGE:	Avoid contact with skin and eyes. Wash thoroughly after handling.		
	Irritant.		
	Keep container tightly closed.		
	Avoid breathing vapor.		
ADDITIONAL COMMENTS:	The above information is believed to be correct but does not purport to be all		
	inclusive and shall be used only as a guide. ScyTek Laboratories shall not be held liable for any damage resulting from handling or from contact with		
	the above product.		