

MATERIAL SAFETY DATA SHEET

ALCOHOLIC GIEMSA

FILE NO.: 005
MSDS DATE: 8/21/06



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Alcoholic Giemsa
SYNONYMS: Rapid Blood Smear, Malaria Stain
CATALOG CODES: VAG
MANUFACTURER: Volu-Sol Incorporated
DIVISION: Business Services
ADDRESS: 5095 West 2100 South
Salt Lake City, UT 84120
EMERGENCY PHONE: (800) 535-5053
CHEMTREC PHONE: (800) 424-9300
OTHER CALLS: (801) 974-9474
FAX PHONE: (801) 974-9553
CHEMICAL NAME: N/A
CHEMICAL FAMILY: N/A
CHEMICAL FORMULA: Mixture
PRODUCT USE: Laboratory Reagent
PREPARED BY: ASH

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.
METHANOL	67-56-1
GIEMSA STAIN	51811-82-6

SARA 313 REPORTABLE
Methanol CAS# 67-56-1

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: DANGER! EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. VAPORS CAUSE COUGH, HEADACHE, FATIGUE, AND DROWSINESS.

ROUTES OF ENTRY: Inhalation/Ingestion/Skin/Eyes
POTENTIAL HEALTH EFFECTS

INHALATION: Inhalation of vapors irritates the respiratory tract. May cause coughing, dizziness, dullness, and headache. Higher concentrations can produce central nervous system depression, narcosis, and unconsciousness.

INGESTION: Swallowing small amounts is not likely to produce harmful effects. Ingestion of larger amounts may produce abdominal pain, nausea and vomiting. Aspiration into lungs can produce severe lung damage and is a medical emergency. Other symptoms are expected to parallel inhalation.

SKIN CONTACT: Irritating due to defatting action on skin. Causes redness, pain, drying and cracking of the skin.

EYE CONTACT: Vapors are irritating to the eyes. Splashes may cause severe irritation, with stinging, tearing, redness and pain.

CHRONIC EXPOSURE: Prolonged or repeated skin contact may produce severe irritation or dermatitis.

AGGRAVATION OF PRE-EXISTING CONDITIONS: Use of alcoholic beverages enhances toxic effects. Exposure may increase the toxic potential of chlorinated hydrocarbons, such as chloroform, trichloroethane.

CARCINOGENICITY: Not Listed
OSHA: ACGIH: NTP: IARC:

SECTION 4: FIRST AID MEASURES

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

INGESTION: Aspiration hazard. If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Call a physician immediately.

SKIN CONTACT: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR (% BY VOLUME); UPPER: 31.0 %
LOWER: 6.0 %

FLASH POINT: 12 deg C (53.60 deg F) Methanol
AUTOIGNITION TEMPERATURE: 455 deg C (851.00 deg F) Methanol
EXTINGUISHING MEDIA: Dry chemical, alcohol foam or carbon dioxide. Water may be ineffective. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors.

SPECIAL FIRE FIGHTING PROCEDURES: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Vapors can flow along surfaces to distant ignition source and flash back. Contact with strong oxidizers may cause fire. Sealed containers may rupture when heated. This material may produce a floating fire hazard. Sensitive to static discharge. Ethanol burns with a near invisible flame in direct light.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Protect against physical damage. Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS: *ppm = (mg/M³)(24.45)/MW

CHEMICAL	OSHA PEL'S		ACGIH	
	TWA	CEILING	TLV	STEL
Methanol	200	-	200	250
Giemsa Stain	-	-	-	-

VENTILATION SYSTEM: A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

PERSONAL RESPIRATORS (NIOSH APPROVED): If the exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapor respirator may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

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SECTION 8: CONT'D

SKIN PROTECTION: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

EYE PROTECTION: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Purpleish
ODOR: Alcohol like
SOLUBILITY: Miscible in all proportions in water.
pH: NA
% VOLATILES BY VOLUME @ 21C (70F): Not listed
BOILING POINT: 64C(Methanol)
MELTING POINT: -144F
Flash Point: 52 deg F (11.11 deg C)
VAPOR DENSITY (AIR=1): NA
VAPOR PRESSURE (mm Hg) @ 20C: 29mm Hg
EVAPORATION RATE (BuAc=1): NA

SECTION 10: STABILITY AND REACTIVITY

STABLE **UNSTABLE**
Yes

STABILITY: Stable under ordinary conditions of use and storage.
CONDITIONS TO AVOID (STABILITY): Heat, flames, ignition sources.
DECOMPOSITION OR BY-PRODUCTS: Not Available
HAZARDOUS POLYMERIZATION: Will not occur.
CONDITIONS TO AVOID (POLYMERIZATION): N/A

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

RTECS#:
CAS# 67-56-1: PC1400000
LD50/LC50:
CAS# 67-56-1: Draize test, rabbit, eye: 40 mg Moderate; Draize test,rabbit, eye: 100 mg/24H Moderate; Draize test, rabbit, skin: 20 mg/24H Moderate; Inhalation, rabbit: LC50 = 81000 mg/m³/14H; Inhalation, rat: LC50 = 64000 ppm/4H; Oral, mouse: LD50 = 7300 mg/kg; Oral, rabbit: LD50 = 14200 mg/kg; Oral, rat: LD50 = 5600 mg/kg; Skin, rabbit: LD50 = 15800 mg/kg.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:

Goldfish (fresh water), 250 ppm/11H, death. Aquatic toxicity rating: TLm 96 >1000 ppm.
ENVIRONMENTAL: Not Available.
PHYSICAL: No information available.
OTHER: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14: TRANSPORT INFORMATION

US DOT	IMO	IATA	RID/ADR	CANADIAN TDG
Ship Name: Methanol	Ship Name: Methanol	Ship Name: Methanol	Ship Name: Methanol	Ship Name: Methanol
Hazard Class: 3	Hazard Class: 3	Hazard Class: 3	Hazard Class: 3	Hazard Class: 3
UN Number: UN1170	UN Number: UN1170	UN Number: UN1170	UN Number: UN1170	UN Number: UN1170
Packing Group: II	Packing Group: 2	Packing Group: 2	-	Flashpoint 12.0 C

SECTION 15: REGULATORY INFORMATION

TSCA	CAS# 51811-82-6 is listed on the TSCA inventory. CAS# 67-56-1 is listed on the TSCA inventory.
CERCLA/SARA	CAS# 67-56-1: 5000 lb final RQ; 2270 kg final RQ
Clean Air Act	This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.
Clean Water Act	None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.
OSHA	None of the chemicals in this product are considered highly hazardous by OSHA
State	CAS# 67-56-1 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.
International Regulations	CAS# 67-56-1 is listed on Canada's DSL List. CAS# 67-56-1 is listed on Canada's Ingredient Disclosure List.

DISCLAIMER: The information is provided without any representation or warranty, express or implied, regarding the accuracy or correctness. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.