Safety Data Sheet

CAMCO QUIK STAIN II, #211

1. Identification of Substance / Mixture and of Supplier:

Product Identifier: Laboratory Reagent, Methanol Solution

Synonyms: Hematology Stain

Supplier Details:
Commercial Product Name: CAMCO QUIK STAIN II, #211
Typically sold in small quantity, laboratory use 32 fl. oz. or less.
Company: CAMBRIDGE DIAGNOSTIC PRODUCTS, INC.
Product Information: Phone: 954.971.4040 Fax: 954.975.5609
6880 NW 17th Avenue, Fort Lauderdale, FL 33309, U.S.A.

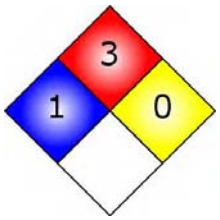
Emergency Contact/Assistance:
For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure or Accident Call
CHEM-TREC Day or Night
Within the USA and Canada: 1.800.424.9300
Outside USA & Canada 1.703.527.3887 (collect calls accepted)
CCN3673

2. HAZARDS IDENTIFICATION:

OSHA Hazards:
Flammable liquid, Irritant, Target organ effect, Toxic by ingestion, Toxic by skin absorption

Target Organs:
Central nervous system, Eyes, Kidney, Liver

NFPA



GHS label elements, including precautionary statements



Signal Word:
DANGER!

Hazard statement(s)

H225	Highly flammable liquid and vapor.
H301 + H311+ H331	Toxic if swallowed or in contact with skin or if inhaled.
H315	Causes skin irritation.
H370	Causes damage to organs.

Precautionary statement(s)

P210	Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233	Keep container tightly closed.
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P263	Avoid contact during pregnancy/while nursing.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use in a well-ventilated area.
P280	Wear protective gloves and eye and face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or a doctor/physician.
P303 + P361 + P353	IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/ physician.
P321	Specific treatment (see supplemental first aid instructions on this label).
P322	Specific measures (see first aid measures on this label)
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents and container to an approved waste disposal plant.

GHS Classification(s)

Acute Toxicity, Dermal (Category 3)
Acute Toxicity, Inhalation (Category 3)
Acute Toxicity, Oral (Category 3)
Flammable Liquids (Category 2)
Specific target organ toxicity - single exposure (Category 1)
Specific target organ toxicity - single exposure (Category 2)

Other hazards which do not result in classification:

Potential Health Effects:

Organ	**Description**
Eyes -	Causes eye irritation.
Ingestion -	Toxic if swallowed.
Inhalation -	May be harmful if inhaled. Causes respiratory tract irritation.
Skin -	Toxic if absorbed through skin. Causes skin irritation.

3. Composition and Information on Ingredients:

Chemical identity:	Laboratory Reagent, Methanol Solution
Common name / Synonym:	Hematology Stain
Formula:	Trade Secret
Molecular Weight:	N/A
CAS number:	67-56-1 Methanol 62-56-6 Thiourea
EINECS number:	200-659-6 Methanol 200-543-5 Thiourea

ICSC number:	0057 Methanol 0680 Thiourea
RTECS #:	PC1400000 Methanol YU2800000 Thiourea
UN #:	1230 Methanol Solution
EC #:	603-001-00-X Methanol 612-082-00-0 Thiourea

Weight	**Material**	**CAS #**
89%	Methanol	67-56-1
<1%	Thiourea	62-56-6

4. FIRST AID MEASURES:

General advice
Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Skin
Wash skin with soap and copious amounts of water. Seek medical attention.

Inhalation
Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Eyes
Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.

Ingestion
DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything my mouth to an unconscious individual.

5. FIRE FIGHTING MEASURES:

Suitable extinguishing media:
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):
Carbon oxides expected to be the primary hazardous combustion product.

Special protective equipment and precautions for firefighters:
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Further information:
Keep unopened containers cool by spraying with water.

Flammable Properties
Classification
OSHA/NFPA Class IB Flammable Liquid.
Flash point
11 °C (52 °F) - Closed Cup
Autoignition temperature
464 °C (867 °F)

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures:
Wear respiratory protection. Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions:
Stop leak / contain spill if possible and safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up:
Contain spill, then collect with an electrically protected vacuum cleaner or by wet-brushing and put the material into a convenient waste disposal container. Keep container closed.

7. HANDLING AND STORAGE:

Precautions for safe handling:

Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

Control parameters, e.g., occupational exposure limit values or biological limit values:
Occupational Exposure Limits

Component	Source	Type	Value
Methyl Alcohol	US (ACGIH)	TWA	200 ppm
Methyl Alcohol	US (OSHA)	TWA	200 ppm
Methyl Alcohol	US (ACGIH)	STEL	250 ppm

Appropriate engineering controls:

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

Individual protection measures, such as personal protective equipment:

Respiratory protection:
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection:
Handle with gloves. Use appropriate gloves approved for laboratory and chemical handling. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash with soap and water then dry hands.

BULK USE ONLY:
Full contact
Material: butyl-rubber
Minimum layer thickness: 0.3 mm
Break through time 48 min
Material tested: Butoject® (KCL 897 /Aldrich Z7677647, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.4 mm
Break through time: 31 min
Material tested: Camatril® (KCL730 / Aldrich Z677442, Size M)

Data source MCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, email sales@kcl.de, test method: EN374 If used in solution mixed with other substances and under conditions which differ from EN374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. If should not be construed as offering an approval for any specific use scenario.

Eye protection:
Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

Skin and body protection:
As appropriate in bulk or small quantity laboratory use: wear impervious, flame retardant, antistatic protective clothing, including boots, gloves, lab coat, apron or coveralls, to prevent skin contact.

Hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance *(physical state, color, etc.)*	Dark blue, low viscosity liquid
Freezing point	-98 °C (-144 °F)
Initial boiling point and boiling range	64 °C (147 °F)
Flash point	11 °C (52 °F) - Closed Cup
Upper / Lower flammability or explosive limits	6.0% (V) / 36.0% (V)
Vapor pressure	<1 atm at 20 °C (68 °F)
Vapor Density	1.1
Relative Density	0.85 g/mL at 25 °C (77 °F)
Solubility(ies)	Completely miscible
Auto-ignition temperature	464 °C (867 °F)
Formula	Trade Secret
Molecular Weight	Not applicable multiple compound product

10. STABILITY AND REACTIVITY:

Product Stability	Stable 3 ½ years from date of manufacturer under recommended storage conditions.
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid (e.g., static discharge, shock or vibration)	Heat, flames and sparks. Extreme temperatures and direct sunlight.
Incompatible materials	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids, Nitrates and Nitrites
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. TOXICOLOGICAL INFORMATION:

Methyl Alcohol 67-56-1
Thiourea 62-56-6

Product Summary:
No data available for the mutagenic, teratogenic, or reproductive effects of the product.

Acute Toxicity:

LC50 (Inhl)	Rat	64,000 mg/Kg BWT	4 hours
LD50 (Oral)	Rat	5,628 mg/Kg BWT	
LD50 (Skin)	Rabbit	15,800 mg/Kg BWT	

Irritation:

Eyes
Direct contact with the eyes produces a mild, reversible irritation, assuming treatment is initiated promptly. Methanol solution ingestion or inhalation can lead to visual disturbance that can proceed to blindness.

Skin Standard Draize skin test (rabbit) - Dose: 20 mg/24 hrs Reaction: Moderate Repeated exposure may cause skin dryness or cracking.

Carcinogenicity (this is for information is for METHANOL)

IARC:	Not classifiable as a human carcinogen.
ACGIH:	Not classifiable as a human carcinogen.
NTP:	Not classifiable as a human carcinogen.
OSHA:	Not classifiable as a human carcinogen.

Carcinogenicity (This product contains less than 1% Thiourea)
This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classifications.
Limited evidence of carcinogenicity in animal studies.

IARC:	3 – Group 3: not classifiable as to its carcinogenicity to humans (Thiourea)
ACGIH:	No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	Reasonably anticipated to be a human carcinogen (Thiourea)
OSHA:	No component of this product presents at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other Hazards

Specific target organ toxicity – single exposure (Globally Harmonized System)
Causes damage to organs

Specific target organ toxicity – repeated exposure (Globally Harmonized System)
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Signs and Symptoms of Exposure
Methyl alcohol may be fatal or cause blindness if swallowed.
Effects due to ingestion may include: Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures, Symptoms may be delayed. Damage of the Liver, Kidney

Organ	Description
Eyes	Irritating to the eyes.
Ingestion	Poison, may be fatal or cause blindness if swallowed. Cannot be made non-poisonous. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation	Toxic by inhalation. Vapor harmful. May be irritating to the respiratory tract.
Skin	Toxic in contact with skin. Irritating to skin.
Chronic	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. Experiments have shown reproductive toxicity effects on laboratory animals. May cause adverse liver effects. May cause adverse kidney effects. Methanol is slowly eliminated from the body, therefore it can have cumulative toxicity effects with repeated exposures.

12. ECOLOGICAL INFORMATION:

Methyl Alcohol 67-56-1
Thiourea 62-56-6

Eco-toxicity (aquatic and terrestrial, where available):
Acute Fish Toxicity (METHANOL)
LC50 / 96 hours Lepomis macrocirus: 15,400 mg/L / LC50 / 96 hours Fathead minnow: 29,400 mg/L

Toxicity to Aquatic Plants (METHANOL)
EC50 / 96 hours Scenedesmus capricornutum: 22,000 mg/L

Persistence and degradability:
This material is expected to be readily biodegradable. There is evidence that it is degraded under anaerobic conditions.

Bio-accumulative potential:
Bio-concentration factor (BCF) of 0.2. This material is not expected to bio-accumulate.

13. DISPOSAL CONSIDERATIONS:

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

Vapors may collect in empty containers. Treat empty containers as hazardous. Dispose of spill-clean up and other wastes in accordance with federal, state, and local regulations.

Collect all solution used in the laboratory in a special container (consult hazardous disposal company) and dispose of according to all relevant regulations. This product should not be discharged into the sewer system or open bodies of water.

14. TRANSPORT INFORMATION:

Description of waste residues and information on their safe handling and methods of disposal:

UN number	UN1230
UN proper shipping name	Methanol Solution
Transport hazard class(es)	3
Packing group *(if applicable)*	II

Reportable Quantity
5,000 lbs.
IMDG
UN-Number: UN1230 Class: 3 (6.1) Packing Group: II
EMS-No: F-E, S-D

15. REGULATORY INFORMATION:

Safety, health and environmental regulations specific for the product in question:

OSHA Hazards
Flammable liquid, Irritant, Target organ effect, Toxic by ingestion, Toxic by skin absorption

All ingredients are on the following inventories or are exempted from listing

Country	Notification
Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIoC
Philippines	PICCS
United States of America	TSCA

SARA 302 Components
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
The following components are subject to reporting levels established by SARA title III, Section 313:
METHANOL
(CAS# 67-56-1) Revision date 2007-07-01.

SARA 311/312 Hazards
Acute Health Hazard
Chronic Health Hazard
Fire Hazard

CERCLA
No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA

Massachusetts Right To Know Components
Methanol CAS-No. 67-56-1 Revision Date 2007-07-01
Thiourea 62-56-6 Revision Date 2007-07-01

Pennsylvania Right To Know Components
Methanol CAS-No. 67-56-1 Revision Date 2007-07-01
Thiourea 62-56-6 Revision Date 2007-07-01

New Jersey Right To Know Components
Methanol CAS-No. 67-56-1 Revision Date 2007-07-01
Thiourea 62-56-6 Revision Date 2007-07-01

California Prop 65 Components
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. METHANOL CAS-No. 67-56-1 Revision Date 2012-03-16
WARNING! This product contains a chemical known to the State of California to cause cancer
Thiourea 62-56-6 Revision Date 2007-09-28

16. FURTHER DATA:
INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

Disclaimer

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