

# Camlab Limited – Material Safety Data Sheet


## 1. Identification

Product Code CC/3164-CA

Product Name **FEULGEN'S STAIN (chromosome and DNA stain)**

CAS Number **Mixture**

Supplier: **CAMLAB LIMITED**

 **Norman Way Industrial Estate  
Over  
Cambridge  
England  
CB4 5WE**

Phone **01954 233110**

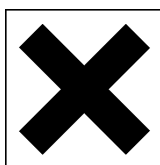
Fax **01954 233101**

Emergency Telephone **08:00-17:00 01954 233110**  
**24hr 112**  
**(Have this document to hand)**

## 2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Hydrochloric acid	7647-01-0	231-595-7	1.0%	Xi : R34,R37	WEL

## 3. Hazards Identification



Irritating to eyes, respiratory system and skin.

## 4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation If material has reacted with an acid to form, sulphur dioxide, seek immediate medical assistance.

Ingestion Wash out the patients mouth thoroughly with water. If conscious induce vomiting. OBTAIN MEDICAL ATTENTION.

## 5. Fire Fighting Measures

Hazards Presents no specific fire danger.

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

## 6. Accidental Release Measures

Personal Protection Evacuate area immediately. Use approved personal protective equipment. However if contact with acid is possible, use full protective clothing and breathing apparatus.

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

Major Spillage Wash area down with copious amounts of water.

## 6. Accidental Release Measures (continued)

Minor Spillage Wash area down with copious amounts of water.

## 7. Storage & Handling

Handling Precautions No specific precautions.

## 8.1 Workplace Exposure Limits

Component	CAS No	Workplace Exposure Limits				Maximum Exposure Limits			
		Long Term		Short Term		Long Term		Short Term	
		ppm	mg m <sup>-3</sup>	ppm	mg m <sup>-3</sup>	ppm	mg m <sup>-3</sup>	ppm	mg m <sup>-3</sup>
Hydrochloric acid	7647-01-0	1.000	2.000	5.000	8.000	-	-	-	-

## 8.2 Personal Protection

Respiratory Presents no significant inhalation health hazard.

Hands Wear gloves.

Eyes Use chemical splash proof glasses or goggles.

Skin Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

## 9. Physical & Chemical Properties

Appearance Clear colourless liquid.  
Odour Organic sulphur odour.  
pH 4  
Boiling point Aqueous solution  
Melting point Aqueous solution  
Flash point Not available  
Upper Flammable Limit Not available  
Lower Flammable Limit Not available  
Auto Ignition Not available  
Explosive properties No.  
Oxidising Properties No.  
Vapour Pressure Not available  
Relative Density 1.0010 °C  
Water Solubility Completely soluble in water.

## 10. Stability & Reactivity

Chemical Stability Stable under normal conditions

Conditions to Avoid Elevated temperatures and contact with oxidising agents.

Materials to Avoid Strong oxidising agents. Contact with acids will liberate toxic and irritant fumes of sulphur dioxide.

Hazardous Toxic fumes of sulphur dioxide.

Decomposition Products

## 11. Toxicological Information

Eyes The liquid will be irritating to the eyes.

Skin The liquid will be irritating to the skin.

LD50 Skin Not available

Ingest Low order of acute toxicity.

LD50 Ingest Not available

Inhalation Major hazard is through inhalation of sulphur dioxide fumes which produce a hard uncontrollable cough. Excessive exposure can lead to unconsciousness and may prove fatal.

## 11. Toxicological Information (continued)

Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

## 12. Ecological

The powerful reducing action may interfere with aquatic life.

## 13. Disposal Considerations

Disposal Methods	Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations.
Contaminated Packaging	Wash out containers with water. Use a licensed waste disposer.

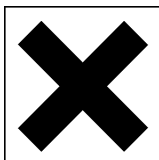
## 14. Transport Information

Proper Shipping Name	Non-restricted
UN Number	Non-restricted
UN Classification	None
Subsidiary Risk	None
Flash Point	Not available
Packing Group	None
Transport Category	None
Marine pollutant	No
ADR Hazard ID	Non-restricted

## 15. Regulatory Information

Labelling	Irritant.
Classification	

Label Symbols Xi



Risk & safety Phrases Irritating to eyes, respiratory system and skin. Avoid contact with eyes. If swallowed, seek medical advice immediately and show this container or label.

EEC Number Not available

## 16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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