Camlab Limited – Material Safety Data Sheet

1111611

1. Identification

Product Code 1111611

Product Name BIURET REAGENT

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)
Sodium hydroxide	1310-73-2	215-185-5	0.8%	Xi : R35	WEL
Cupric sulphate	7758-98-7	231-847-6	0.5%	Xi : R22,R36/38,R50/53	N/A

3. Hazards Identification



Irritating to eyes 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 URGENTLY.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash

before re-use. If irritation persists or there is any sign of skin damage, seek ${\tt IMMEDIATE}$

MEDICAL ASSISTANCE

Inhalation Remove from exposure.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL

ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Presents no specific fire danger.

Extinguishing

Consider what other flammable materials are present and act accordingly.

Media

Unsuitable Nothing specified.

Media

6. Accidental Release Measures

Personal Avoid breathing vapour. Use approved personal protective equipment. Evacuate area

Protection immediately. Do not allow other people to enter area. Do not allow general use of area

until it is safe to do so.

Environmental Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify

the Environmental Agency and local Environmental Health Officer if major spillage occurs.

6. Accidental Release Measures (continued)

Major Spillage Contain spill with inert material. Neutralise with 5M hydrochloric acid. Wash area down

with copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

7. Storage & Handling

Handling Precautions Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate

clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended

limits.

Storage Conditions Store in a dry place protected against moisture and water. Keep well separated from acids,

metals, explosives, organic peroxides and ignitable materials.

8.1 Workplace Exposure Limits

Component	CAS No	Workplace Expo	sure Limits	Maximum Exposure Limits	
		Long Term	Short Term	Long Term	Short Term
		ppm mg m-3	ppm mg m-3	ppm mg m–3	ppm mg m-3
Sodium hydroxide	1310-73-2		- 2.000		
Cupric sulphate	7758-98-7	No prescribe	ed exposure limi	ts available	

8.2 Personal Protection

Respiratory In cases where a spray or mist may be formed, use L.E.V. or natural ventilation to maintain

vapour concentrations below exposure limits. If not, use a well maintained chemical

cartridge respirator, or use self contained breathing apparatus.

Hands Use nitrile gloves or PVC gauntlets.

Eyes Use chemical full face shield.

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

Wear PVC oversuit.

9. Physical & Chemical Properties

Appearance Clear blue solution.

Odour Odourless. pH 14 @ 20 °C

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 Presure Negligible

Relative Density 1.0150 °C

Water Solubility Completely soluble in water.

10. Stability & Reactivity

Chemical Stability Stable under normal conditions

Conditions to Avoid No specific conditions.

Materials to Avoid Acids. Reacts with aluminium and zinc to produce extremely flammable hydrogen gas.

Hazardous None unusual.

Decomposition Products

11. Toxicological Information

Eyes The liquid will irritate the eyes and can cause conjunctivitis.

Skin The liquid will be irritating to the skin.

LD50 Skin Not available

LD50 Ingest Not available

Inhalation Presents no significant health hazard by inhalation.

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

12. Ecological

Small amounts present no specific environmental hazard. Neutralised material presents no specific environmental hazard.

13. Disposal Considerations

Disposal Methods Do not dispose of as domestic waste.

Contaminated Packaging Clean out with a weak hydrochloric acid solution then wash out thoroughly with water.

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 X



Risk & safety Phrases Irritating to eyes and skin. In case of contact with eyes, rinse immediately with plenty of

water and seek medical advice.

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.

16. Other Information (continued)

Revision Date: 18/11/03.

Data reviewed and PDF file generated: 17/03/10.

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