

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME            CALCOBRITE KIT

PRODUCT CODE            631150

<u>SUPPLIER</u>	Clin-Tech Limited	Telephone	+44 (0)1483 301902
	Unit G, Perram Works	Fax	+44 (0)1483 301907
	Merrow Lane		
	Guildford, Surrey	Email	info@clin-tech.co.uk
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## 2. HAZARDS IDENTIFICATION

### CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 [EU-GHS/CLP]

Skin Corrosion (Category 1A)	H314
Acute Toxicity, Oral (Category 4)	H302
Chronic Aquatic Toxicity (Category 4)	H413

### LABELLING ACCORDING TO REGULATION (EC) NO 1272/2008 [EU-GHS/CLP]

DANGER



### Hazard statement(s)

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H413	May cause long-lasting harmful effects to aquatic life

### Precautionary statement(s)

P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P313	IF SWALLOWED: Get medical advice / attention
P303+361+353	IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Rinse SKIN with water/shower
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

### CLASSIFICATION ACCORDING TO EU DIRECTIVES 67/548/EEC AND 1999/45/EEC

C	Corrosive	R35
Xn	Harmful	R22
N	Dangerous for the environment	R53

### LABELLING ACCORDING TO EU DIRECTIVE 67/548/EEC



Corrosive



Harmful

## Risk Phrases

R22	Harmful if swallowed
R35	Causes severe burns
R53	May cause long-term adverse effects in the aquatic environment

## Safety Phrases

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
S45	In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)
S46	If swallowed, seek medical advice immediately and show this container or label

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

CalcoBrite Kit contains the following:

CalcoBrite Reagent A Potassium Hydroxide Solution	3 x 30 mL dropper bottles
CalcoBrite Reagent B CalcoFluor Solution	2 x 30 mL dropper bottles

The SDS for each reagent is presented separately in the following pages.

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### 4. FIRST-AID MEASURES

Refer to kit component SDS.

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### 5. FIRE-FIGHTING MEASURES

Refer to kit component SDS.

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### 6. ACCIDENTAL RELEASE MEASURES

Refer to kit component SDS.

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### 7. HANDLING & STORAGE

#### USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

#### STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. May attack some plastics, rubber and coatings.

#### STORAGE CLASS

Chemicals storage.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to kit component SDS.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Refer to kit component SDS.

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## 10. STABILITY AND REACTIVITY

Refer to kit component SDS.

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## 11. TOXICOLOGICAL INFORMATION

Refer to kit component SDS.

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## 12. ECOLOGICAL INFORMATION

Refer to kit component SDS.

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## 13. DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

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## 14. TRANSPORT INFORMATION

	UN #	Class	Packing	Proper shipping name
<u>RID / ADR</u>	3316	9	II	Chemical Kit
<u>IATA</u>	3316	9	II	Chemical Kit
<u>IMDG</u>	3316	9	II	Chemical Kit

### SIGNAGE



### ENVIRONMENTAL HAZARDS

RID / ADR	No
IATA	No
IMDG	No

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## 15. REGULATORY INFORMATION

### STATUTORY INSTRUMENTS

This MSDS complies with regulation (EC) no. 1907/2006.  
Workplace Exposure Limits EH40/2011.

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## 16. OTHER INFORMATION

### GENERAL INFORMATION

This safety data sheet covers all codes for this product.

## REVISION INFORMATION

Revision No. 01  
Revision Date 06/2013  
Comments GHS regulations incorporated  
Replaces Document Generated New Document

## KIT COMPONENTS

	<u>ACCORDING TO REG (EC) NO 1272/2008 [EU-GHS/CLP]</u>	<u>ACCORDING TO EU DIRECTIVES 67/548/EEC</u>
CalcoBrite Reagent A	Skin Corr. 1A H314	C; R35
CalcoBrite Reagent B	Acute Tox. 4, Aquatic Chronic 4 H302 H413	Xn; R22 R53



## Risk Phrases

R35 Causes severe burns

## Safety Phrases

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible)

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC #	CAS #	Content	Classification
POTASSIUM HYDROXIDE	215-181-3	1310-58-3	10-20%	Acute Tox. 4, Skin Corr. 1A H302 H314 C; R22 R35
GLYCEROL	200-289-5	56-81-5	5-10%	

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### 4. FIRST-AID MEASURES

#### INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

#### INGESTION

Do not induce vomiting. Never make an unconscious person vomit or drink fluids. Get medical attention immediately. Show the label or this document to the physician.

#### SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water. If symptoms occur seek medical attention.

#### EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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### 5. FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Use: Alcohol-resistant foam. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

#### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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## 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Evacuate personnel from the affected area.

### ENVIRONMENTAL PRECAUTIONS

Do not allow spillage to enter watercourses, drains or sewers. Stop leak if possible without risk.

### SPILL CLEAN-UP METHODS

Provide ventilation and confine spill. Do not allow runoff to sewer. Inform Authorities if large amounts are involved. Absorb with vermiculite, dry sand or earth. Shovel up residue and collect for authorised disposal (see section 13). Flush area with plenty of water.

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## 7. HANDLING & STORAGE

### USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. May attack some plastics, rubber and coatings.

### STORAGE CLASS

Chemicals storage.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation. Provide explosion-proof ventilation for high concentrations.

### PROTECTIVE EQUIPMENT



### HAND PROTECTION

Use protective gloves made of: Butyl rubber (immersion protection) or Nitrile rubber (splash protection). The most suitable glove should be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

### EYE PROTECTION

Wear approved, tight-fitting safety glasses where splashing is probable.

## RESPIRATORY EQUIPMENT

Self-contained breathing apparatus where high vapour levels are likely.

## OTHER PROTECTION

Provide eyewash station.

## HYGIENE MEASURES

**DO NOT SMOKE IN WORK AREA!** Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated.

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## **9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE	Colourless Liquid
ODOUR	None
(SOLUBILITY) / MISCIBLE WITH:	Water; Ethanol; Ether; Benzene; Organic solvents
SPECIFIC GRAVITY	1.05 @ 20 °C

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## **10. STABILITY AND REACTIVITY**

### STABILITY

Stable under normal temperature conditions and recommended use.

### CONDITIONS TO AVOID

Extremes of temperature, direct sunlight.

### INCOMPATIBLE MATERIALS

Strong oxidizers, Acids, Reducing agents, Alkali metals.

### HAZARDOUS DECOMPOSITION PRODUCTS

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

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## **11. TOXICOLOGICAL INFORMATION**

### INHALATION

May be harmful by inhalation. May cause respiratory tract irritation.

### INGESTION

May be harmful if swallowed.

### SKIN CONTACT

Causes severe skin burns. May be harmful by absorption through the skin.

### EYE CONTACT

Causes severe eye burns.



## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY

Not regarded as dangerous for the environment.

## 13. DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

## 14. TRANSPORT INFORMATION

	UN #	Class	Packing	Proper shipping name
<u>RID / ADR</u>	1814	8	II	Potassium Hydroxide Solution
<u>IATA</u>	1814	8	II	Potassium Hydroxide Solution
<u>IMDG</u>	1814	8	II	Potassium Hydroxide Solution

### SIGNAGE



### ENVIRONMENTAL HAZARDS

RID / ADR	No
IATA	No
IMDG	No

## 15. REGULATORY INFORMATION

### STATUTORY INSTRUMENTS

This MSDS complies with regulation (EC) no. 1907/2006.  
Workplace Exposure Limits EH40/2011.

## 16. OTHER INFORMATION

### GENERAL INFORMATION

This safety data sheet covers all codes for this product.

### REVISION INFORMATION

Revision No.	03
Revision Date	04/2013
Comments	GHS regulations incorporated
Replaces Document Generated	02/2009

### HAZARD & RISK PHRASES IN FULL

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
R22	Harmful if swallowed.
R35	Causes severe burns

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME            CALCOBRITE REAGENT B  
                                    CalcoFluor (M2R Fluorescent Brightener) Solution

PRODUCT CODE            63115b

<u>SUPPLIER</u>	Clin-Tech Limited Unit G, Perram Works Merrow Lane Guildford, Surrey GU4 7BN UK	Telephone	+44 (0)1483 301902
		Fax	+44 (0)1483 301907
		Email	info@clin-tech.co.uk
		Website	www.clin-tech.co.uk

## 2. HAZARDS IDENTIFICATION

### CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 [EU-GHS/CLP]

Acute Toxicity, Oral (Category 4)	H302
Chronic Aquatic Toxicity (Category 4)	H413

### LABELLING ACCORDING TO REGULATION (EC) NO 1272/2008 [EU-GHS/CLP]

#### WARNING



#### Hazard statement(s)

H302	Harmful if swallowed
H413	May cause long-lasting harmful effects to aquatic life

#### Precautionary statement(s)

P301+P313	IF SWALLOWED: Get medical advice / attention
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### CLASSIFICATION ACCORDING TO EU DIRECTIVES 67/548/EEC AND 1999/45/EEC

Xn	Harmful	R22
N	Dangerous for the environment	R53

### LABELLING ACCORDING TO EU DIRECTIVE 67/548/EEC



Harmful

## Risk Phrases

R22 Harmful if swallowed  
R53 May cause long-term adverse effects in the aquatic environment

## Safety Phrases

S46 If swallowed, seek medical advice immediately and show this container or label

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC #	CAS #	Content	Classification
CALCOFLUOR M2R	224-548-7	4404-43-7	0-1%	Eye Irrit. 2 H319
				Xi; R36
SODIUM AZIDE	247-852-1	26628-22-8	<0.1%	Acute Tox. 2; Aquatic Acute 1, Aquatic Chronic 1 H300 H410
				T; R28 R32 N; R50/53

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### 4. FIRST-AID MEASURES

#### INHALATION

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

#### INGESTION

Do not induce vomiting. Never make an unconscious person vomit or drink fluids. Get medical attention immediately. Show the label or this document to the physician.

#### SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water. If symptoms occur seek medical attention.

#### EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

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### 5. FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Use: Alcohol-resistant foam. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

#### PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

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## 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Evacuate personnel from the affected area.

### ENVIRONMENTAL PRECAUTIONS

Do not allow spillage to enter watercourses, drains or sewers. Stop leak if possible without risk.

### SPILL CLEAN-UP METHODS

Provide ventilation and confine spill. Do not allow runoff to sewer. Inform Authorities if large amounts are involved. Absorb with vermiculite, dry sand or earth. Shovel up residue and collect for authorised disposal (see section 13). Flush area with plenty of water.

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## 7. HANDLING & STORAGE

### USAGE PRECAUTIONS

Avoid spilling, skin and eye contact.

### STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. May attack some plastics, rubber and coatings.

### STORAGE CLASS

Chemicals storage.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation. Provide explosion-proof ventilation for high concentrations.

### PROTECTIVE EQUIPMENT



### HAND PROTECTION

Use protective gloves made of: Butyl rubber (immersion protection) or Nitrile rubber (splash protection). The most suitable glove should be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

### EYE PROTECTION

Wear approved, tight-fitting safety glasses where splashing is probable.

## RESPIRATORY EQUIPMENT

Self-contained breathing apparatus where high vapour levels are likely.

## OTHER PROTECTION

Provide eyewash station.

## HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Pale Yellow Liquid
ODOUR	None
(SOLUBILITY) / MISCIBLE WITH:	Water; Ethanol; Ether; Benzene; Organic solvents
SPECIFIC GRAVITY	1.05 @ 20 °C

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## 10. STABILITY AND REACTIVITY

### STABILITY

Stable under normal temperature conditions and recommended use.

### CONDITIONS TO AVOID

Extremes of temperature, direct sunlight.

### INCOMPATIBLE MATERIALS

Strong oxidizers, Acids, Reducing agents, Alkali metals.

### HAZARDOUS DECOMPOSITION PRODUCTS

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

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## 11. TOXICOLOGICAL INFORMATION

### INHALATION

May be harmful by inhalation. May cause respiratory tract irritation.

### INGESTION

May be harmful if swallowed.

### SKIN CONTACT

Causes severe skin burns. May be harmful by absorption through the skin.

### EYE CONTACT

Causes severe eye burns.

## 12. ECOLOGICAL INFORMATION

### ECOTOXICITY

Avoid release to the environment. May cause long-lasting harmful effects in the aquatic environment.

## 13. DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

## 14. TRANSPORT INFORMATION

	UN #	Class	Packing	Proper shipping name
<u>RID / ADR</u>	<i>Not regarded as hazardous for transport</i>			
<u>IATA</u>				
<u>IMDG</u>				

## 15. REGULATORY INFORMATION

### STATUTORY INSTRUMENTS

This MSDS complies with regulation (EC) no. 1907/2006.  
Workplace Exposure Limits EH40/2011.

## 16. OTHER INFORMATION

### GENERAL INFORMATION

This safety data sheet covers all codes for this product.

### REVISION INFORMATION

Revision No.	03
Revision Date	04/2013
Comments	GHS regulations incorporated
Replaces Document Generated	06/2009

### HAZARD & RISK PHRASES IN FULL

H300	Fatal if swallowed
H302	Harmful if swallowed
H319	Causes serious eye irritation
H410	Very toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life
R22	Harmful if swallowed.
R28	Very toxic if swallowed
R32	Contact with acids liberates very toxic gas
R36	Irritating to eyes
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment