

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION & COMPANY

Product Name SICKLE TEST KIT

Product Code 61068X, 61083X, 61084X, 61085X

Supplier Clin-Tech Limited
Unit G, Perram Works
Merrow Lane
Guildford, Surrey
GU4 7BN

Telephone 01483 301902
Fax 01483 301907
e-mail / Website Info@clin-tech.co.uk / www.clin-tech.co.uk

2. COMPOSITION / INFORMATION ON INGREDIENTS

The kit as presented contains the following quantities of each of Sickle Test Reagent A and Sickle Test Reagent B:

Kit	Kit size (# tests / kit)	Reagent A	Reagent B
61068X	50	20 mL	0.4 g
61083X	25	10 mL	0.25 g
61084X	125	50 mL	1.0 g
61085X	100	40 mL	0.8 g

The MSDSs for these reagents are presented separately in the following pages.

3. HAZARDS IDENTIFICATION

CLASSIFICATION R7 R31
 Xn; R22
 Xi; R36
 R52/53

- May cause fire
- Contact with acids liberates toxic gas
- Harmful if swallowed
- Irritating to eyes
- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

14. TRANSPORT INFORMATION



RID / ADR

UN# 1384
Class 4.2
PG II
Proper shipping name: Sodium
Dithionite

IATA

UN# 1384
Class 4.2
PG II
Proper shipping name: Sodium
Dithionite

IMDG

UN# 1384
Class 4.2
PG II
Proper shipping name: Sodium
Dithionite
Marine Pollutant: No

15. REGULATORY INFORMATION

LABELLING



Harmful

RISK PHRASES

R7 May cause fire
R31 Contact with acids liberates toxic gas
R22 Harmful if swallowed
R36 Irritating to eyes
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

SAFETY PHRASES

S2 Keep out of the reach of children
S7/8 Keep container tightly closed and dry
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28 After contact with skin, wash immediately with plenty of water
S43 In case of fire use dry powder
S46 If swallowed, seek medical advice immediately and show this container or label
S61 Avoid release to the environment. Refer to special instructions/safety data sheet

STATUTORY INSTRUMENTS

Control of Substances Hazardous to Health. Chemicals (Hazard Information and Packaging) Regulations.

GUIDANCE NOTES

CHIP for everyone HSG(108). Workplace Exposure Limits EH40.

16. OTHER INFORMATION

GENERAL INFORMATION

This safety data sheet covers all codes for this product.

REVISION COMMENTS

New MSDS.

REVISION DATE

03-2009

REV. NO./REPL. SDS GENERATED

1 / New MSDS

RISK PHRASES IN FULL

R7	May cause fire
R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas
R36	Irritating to eyes
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION & COMPANY

Product Name SICKLE TEST REAGENT A

Product Code 61068a, 61083a, 61084a, 61085a

Supplier Clin-Tech Limited
Unit G, Perram Works
Merrow Lane
Guildford, Surrey
GU4 7BN

Telephone 01483 301902
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2. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
POTASSIUM DIHYDROGEN ORTHOPHOSPHATE ANHYDROUS	231-913-4	7778-77-0	10-20%	
DIPOTASSIUM HYDROGEN ORTHOPHOSPHATE ANHYDROUS	231-834-5	231-834-5	20-30%	Xi; R36
SODIUM AZIDE	247-852-1	26628-22-8	0-1%	T+; R28 R32 N; R50/53
SAPONIN	232-462-6	8047-15-2	0-1%	Xi; R36/37

The Full Text for all R-Phrases are Displayed in Section 16

3. HAZARDS IDENTIFICATION

CLASSIFICATION Xn; R22
 Xi; R36
 R52/53

- Harmful if swallowed
- Irritating to eyes
- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention if symptoms occur.

INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Seek medical attention.

SKIN CONTACT

Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

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.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-fighting media appropriate for surrounding material.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Absorb in vermiculite, dry sand or earth and place into containers. Flush area with water.

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.

STORAGE CLASS

Store refrigerated, Chemical storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Well-ventilated area.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved safety goggles if there is a risk of splashing during use.

OTHER PROTECTION

Provide eyewash station. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Pale Straw-Coloured Liquid
ODOUR	None
SOLUBILITY	Soluble in water.
BOILING POINT	~ 101°C 760 mmHg
RELATIVE DENSITY	~ 1.01 @ 20°C

10. STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

11. TOXICOLOGICAL INFORMATION

INHALATION

No specific health warnings noted.

INGESTION

May cause harm if swallowed.

SKIN CONTACT

Prolonged or repeated exposure may cause transient irritation.

EYE CONTACT

Prolonged contact may cause transient eye irritation.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Sodium Azide is toxic to aquatic organisms, and may cause long-term adverse effects in the aquatic environment. This product may be harmful to aquatic organisms, and may cause long-term adverse effects in the aquatic environment. Avoid release of this product to the environment.

TEST TYPE:	LC50 Fish
SPECIES:	<i>Onchorhynchus mykiss</i> (Rainbow trout)
TIME:	96 h
VALUE:	3.92 mg/l

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

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

14. TRANSPORT INFORMATION

GENERAL The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15. REGULATORY INFORMATION

LABELLING



Harmful

RISK PHRASES

R22	Harmful if swallowed
R36	Irritating to eyes
R52/53	Harmful to aquatic organisms, 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
S46	If swallowed, seek medical advice immediately and show this container or label
S61	Avoid release to the environment. Refer to special instructions/safety data sheet

STATUTORY INSTRUMENTS

Control of Substances Hazardous to Health. Chemicals (Hazard Information and Packaging) Regulations.

GUIDANCE NOTES

CHIP for everyone HSG(108). Workplace Exposure Limits EH40.

16. OTHER INFORMATION

GENERAL INFORMATION

This safety data sheet covers all codes for this product.

REVISION COMMENTS

Reformatting.

REVISION DATE

03-2009

REV. NO./REPL. SDS GENERATED

3 / 09-2006

RISK PHRASES IN FULL

R22	Harmful if swallowed
R28	Very toxic if swallowed
R32	Contact with acids liberates very toxic gas
R36	Irritating to eyes
R36/37	Irritating to eyes and respiratory system
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION & COMPANY

Product Name SICKLE CELL REAGENT B

Product Code 61068b, 61083b, 61084b, 61085b

Supplier Clin-Tech Limited
Unit G, Perram Works
Merrow Lane
Guildford, Surrey
GU4 7BN

Telephone 01483 301902
Fax 01483 301907
e-mail / Website Info@clin-tech.co.uk / www.clin-tech.co.uk

2. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
SODIUM DITHIONITE	231-890-0	7775-14-6	100%	R7 R31 Xn; R22

The Full Text for all R-Phrases are Displayed in Section 16

3. HAZARDS IDENTIFICATION

CLASSIFICATION R7 R31
Xn; R22

- May cause fire
- Contact with acids liberates toxic gas
- Harmful if swallowed

4. FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Get medical attention if symptoms occur.

INGESTION

DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Seek medical attention.

SKIN CONTACT

Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

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.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-fighting media appropriate for surrounding material.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Absorb in vermiculite, dry sand or earth and place into containers. Flush area with water.

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.

STORAGE CLASS

Store refrigerated, Chemical storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Well-ventilated area.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

HAND PROTECTION

Use protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved safety goggles if there is a risk of splashing during use.

OTHER PROTECTION

Provide eyewash station. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	White Powder
ODOUR	None
SOLUBILITY	Soluble in water.

10. STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

11. TOXICOLOGICAL INFORMATION

INHALATION

No specific health warnings noted.

INGESTION

May cause harm if swallowed.

SKIN CONTACT

Prolonged or repeated exposure may cause transient irritation.

EYE CONTACT

Prolonged contact may cause transient eye irritation.

12. ECOLOGICAL INFORMATION

ECOTOXICITY
None recorded.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION



RID / ADR
UN# 1384
Class 4.2
PG II
Proper shipping name: Sodium Dithionite

IATA
UN# 1384
Class 4.2
PG II
Proper shipping name: Sodium Dithionite

IMDG
UN# 1384
Class 4.2
PG II
Proper shipping name: Sodium Dithionite
Marine Pollutant: No

15. REGULATORY INFORMATION

LABELLING



Harmful

RISK PHRASES

R7 May cause fire
R31 Contact with acids liberates toxic gas
R22 Harmful if swallowed

SAFETY PHRASES

S2 Keep out of the reach of children
S7/8 Keep container tightly closed and dry
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S28 After contact with skin, wash immediately with plenty of water
S43 In case of fire use dry powder

STATUTORY INSTRUMENTS

Control of Substances Hazardous to Health. Chemicals (Hazard Information and Packaging) Regulations.

GUIDANCE NOTES

CHIP for everyone HSG(108). Workplace Exposure Limits EH40.

16. OTHER INFORMATION

GENERAL INFORMATION

This safety data sheet covers all codes for this product.

REVISION COMMENTS

New MSDS.

REVISION DATE

03-2009

REV. NO./REPL. SDS GENERATED

1 / New MSDS

RISK PHRASES IN FULL

R7	May cause fire
R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas