

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME SICKLE TEST KIT

PRODUCT CODE 610830 / 610680 / 610850

<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
	GU4 7BN	Website	www.clin-tech.co.uk
	UK		

2. HAZARDS IDENTIFICATION

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

Self-Heating Substances (Category 1)	H251
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)

H251	Self-heating; may catch fire
H302	Harmful if swallowed
H413	May cause long lasting harmful effects to aquatic life

Precautionary statement(s)

P235+P410	Keep cool. Protect from sunlight
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

CONTINUED OVERLEAF

3. COMPOSITION / INFORMATION ON INGREDIENTS

Sickle Test Kits contain the following:

	25-Test	50-Test	100 Test
Sickle Test Reagent A	10 mL	20 mL	40 mL
Sickle Test Reagent B	0.25 g	0.4 g	0.8 g

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

4. FIRST-AID MEASURES

Refer to kit component SDS.

5. FIRE-FIGHTING MEASURES

Refer to kit component SDS.

6. ACCIDENTAL RELEASE MEASURES

Refer to kit component SDS.

7. HANDLING & STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Risk of vapour concentration on the floor and in low-lying areas. Static electricity and formation of sparks must be prevented.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. 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

Keep refrigerated. Chemical Storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to kit component SDS.

9. PHYSICAL AND CHEMICAL PROPERTIES

Refer to kit component SDS.

10. STABILITY AND REACTIVITY

Refer to kit component SDS.

11. TOXICOLOGICAL INFORMATION

Refer to kit component SDS.

12. ECOLOGICAL INFORMATION

Refer to kit component SDS.

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>	1384	4	II	Sodium Dithionite
<u>IATA</u>	1384	4	II	Sodium Dithionite
<u>IMDG</u>	1384	4	II	Sodium Dithionite

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.	02
Revision Date	10/2015
Comments	CHIP regulations removed
Replaces Document Generated	New Document

KIT COMPONENTS

	<u>ACCORDING TO REG (EC) NO 1272/2008 [EU-GHS/CLP]</u>
<u>Sickle Reagent A</u>	Acute Tox. 4, Aquatic Chronic 4 H302 H413
<u>Sickle Reagent B</u>	Self Heat. 1, Acute Tox. 4 H251 H302

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC #	CAS #	Content	Classification
POTASSIUM DIHYDROGEN ORTHOPHOSPHATE	231-913-4	7778-77-0	10-20 %	
DIPOTASSIUM HYDROGEN ORTHOPHOSPHATE	231-834-5	7758-11-4	20-30 %	
SODIUM AZIDE	247-852-1	26628-22-8	0-1 %	Acute Tox. 2; Aquatic Acute 1, Aquatic Chronic 1 H300 H410
SAPONIN	232-462-6	8047-15-2	0-1 %	Eye Irrit. 2, STOT SE 3 H319 H335

4. FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Get prompt medical attention.

INGESTION

Do not induce vomiting. Rinse mouth with water. Never make an unconscious person vomit or drink fluids. Get medical attention immediately.

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.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use: Water spray, Alcohol-resistant foam, Dry chemicals, or Carbon dioxide.

PROTECTIVE MEASURES IN FIRE

Self-contained breathing apparatus if necessary.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Evacuate personnel to a safe area. Avoid aerosol formation. Avoid breathing aerosols. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

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

SPILL CLEAN-UP METHODS

Flush area with water – do not allow water to enter drains. Absorb with disposable towels and hold for hazardous disposal – see section 13.

7. HANDLING & STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Avoid aerosol formation. Provide adequate exhaust function where dust is raised.

STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place.

STORAGE CLASS

Refrigerate – chemical storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

PROTECTIVE EQUIPMENT



HAND PROTECTION

Use protective gloves. 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 dust is probable.

RESPIRATORY EQUIPMENT

Self-contained breathing apparatus where high dust 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear Yellowish liquid
ODOUR	None
SOLUBILITY / MISCIBLE WITH	Water; Ethanol

10. STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

INCOMPATIBLE MATERIALS

Strong oxidizers.

11. TOXICOLOGICAL INFORMATION

INHALATION

May be harmful if inhaled. May cause respiratory tract irritation.

INGESTION

Harmful if swallowed.

SKIN CONTACT

May be harmful if absorbed through skin. May cause skin irritation.

EYE CONTACT

May causes eye irritation.

12. ECOLOGICAL INFORMATION

Release to the environment should be avoided due to the presence of low concentrations of sodium azide (bacteriostat).

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.	05
Revision Date	09/2015
Comments	CHIP regulations removed
Replaces Document Generated	01/2013

HAZARD STATEMENTS IN FULL

H300	Fatal if swallowed
H302	Harmful if swallowed
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H410	Very toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME SICKLE TEST REAGENT B
Sodium Dithionite (Sodium Hydrosulfite, Sodium Hypodisulfite)

PRODUCT CODE 61068b / 61083b / 61085b

<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]

Self-Heating Substances (Category 1) H251
Acute toxicity (Category 4) H302

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

DANGER



Hazard statement(s)

H251 Self-heating; may catch fire
H302 Harmful if swallowed

Precautionary statement(s)

P235+P410 Keep cool. Protect from sunlight
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC #	CAS #	Content	Formula	Molar Mass
SODIUM DITHIONITE	231-890-0	7775-14-6	95-100%	Na ₂ S ₂ O ₄	174.11 g/mol

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.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use: Dry chemicals, sand, dolomite etc. DO NOT use water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Addition of small amounts of water may cause self-ignition.

PROTECTIVE MEASURES IN FIRE

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

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

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

ENVIRONMENTAL PRECAUTIONS

Do not allow spillage to enter watercourses, drains or sewers. Fire Brigade and Local authority must be informed if this happens as a potential fire hazard may be created. 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. Shovel up residue and collect for authorised disposal (see section 13). DO NOT flush area with water.

7. HANDLING & STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Provide adequate exhaust where dust is formed.

STORAGE PRECAUTIONS

Flammable/combustible - Keep away from oxidisers, heat and flames. Store in tightly closed original container in a cool, dry well-ventilated place.

STORAGE CLASS
Chemical storage.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	White powder
ODOUR	Slight, sulphurous
MELTING POINT	300 °C
SPECIFIC GRAVITY	2.50 @ 20 °C
BULK DENSITY	1250 kg/m ³

10. STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid heat. Avoid Moisture. Avoid direct sunlight.

INCOMPATIBLE MATERIALS

Strong oxidizers, Acids, Water.

HAZARDOUS DECOMPOSITION PRODUCTS

During fire, toxic gases (sulphur oxides) are formed.

11. TOXICOLOGICAL INFORMATION

INHALATION

May be harmful if inhaled. May cause respiratory tract irritation.

INGESTION

Harmful if swallowed.

SKIN CONTACT

May be harmful if absorbed through skin. May cause skin irritation.

EYE CONTACT

May cause eye irritation.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Not regarded as dangerous for the environment.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Incinerate in suitable combustion chamber. Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

	UN #	Class	Packing	Proper shipping name
<u>RID / ADR</u>	1384	4	II	Sodium Dithionite
<u>IATA</u>	1384	4	II	Sodium Dithionite
<u>IMDG</u>	1384	4	II	Sodium Dithionite

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	09/2015
Comments	CHIP regulations removed
Replaces Document Generated	01/2013

HAZARD STATEMENTS IN FULL

H251	Self-heating; may catch fire
H302	Harmful if swallowed