# SAFETY DATA SHEET

# CLO-TABS

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product name** CLO-TABS

**Product number** C052

**Internal identification** C052

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Disinfectant.

### 1.3. Details of the supplier of the safety data sheet

**Supplier**

ARROW SOLUTIONS
RAWDON ROAD
MOIRA
SWADLINCOTE
DERBYSHIRE
DE12 6DA
TEL: +44 (0)1283 221044
FAX: +44 (0)1283 225731
sales@arrowchem.com

### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 777 8505 330

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification**

**Physical hazards**
Not Classified

**Health hazards**
Eye Irrit. 2 - H319 STOT SE 3 - H335

**Environmental hazards**
Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

**Classification (67/548/EEC or 1999/45/EC)**
Xn;R22. Xi;R36/37. N;R50/53. R31.

### 2.2. Label elements

**Pictogram**


**Signal word** Warning

**Hazard statements**

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H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulations.
P280 Wear protective gloves, eye and face protection.

**Supplemental label information**

EUH031 Contact with acids liberates toxic gas.
RCH002b For professional users only.

**Contains** TROCLOSENE SODIUM

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**TROCLOSENE SODIUM** **30-60%**

**CAS number:** 2893-78-9 **EC number:** 220-767-7
**M factor (Acute) =** 1 **M factor (Chronic) =** 1

| Classification | Classification (67/548/EEC or 1999/45/EC) |
|---|---|
| Ox. Sol. 2 - H272 | E;R2 O;R8 Xn;R22 Xi;R36/37 R31 N;R50/53 |
| Ox. Sol. 2 - H272 | |
| Acute Tox. 4 - H302 | |
| Eye Irrit. 2 - H319 | |
| Eye Irrit. 2 - H319 | |
| STOT SE 3 - H335 | |
| STOT SE 3 - H335 | |
| Aquatic Acute 1 - H400 | |
| Aquatic Chronic 1 - H410 | |

**ADIPIC ACID** **10-30%**

**CAS number:** 124-04-9 **EC number:** 204-673-3

| Classification | Classification (67/548/EEC or 1999/45/EC) |
|---|---|
| Eye Irrit. 2 - H319 | Xi;R36 |

**SODIUM CARBONATE** **1-5%**

**CAS number:** 497-19-8 **EC number:** 207-838-8 **REACH registration number:** 01-2119485498-19-0000

| Classification | Classification (67/548/EEC or 1999/45/EC) |
|---|---|
| Eye Irrit. 2 - H319 | Xi;R36 |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately.

**Skin contact**

Wash skin thoroughly with soap and water. Get medical attention if symptoms are severe or persist after washing.

**Eye contact**

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### 4.2. Most important symptoms and effects, both acute and delayed

**Inhalation**

Coughing, chest tightness, feeling of chest pressure.

**Ingestion**

May cause discomfort if swallowed.

**Skin contact**

Prolonged skin contact may cause redness and irritation.

**Eye contact**

Causes serious eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor**

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media**

Use fire-extinguishing media suitable for the surrounding fire.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards**

Considering the size of the packaging, the risk is regarded as minimal.

**Hazardous combustion products**

Fire or high temperatures create: Carbon monoxide (CO). Carbon dioxide (CO2). Chlorine. Hydrogen chloride (HCl). Nitrous gases (NOx).

### 5.3. Advice for firefighters

**Protective actions during firefighting**

No specific firefighting precautions known.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions**

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid inhalation of dust and contact with skin and eyes. Provide adequate ventilation. Wash thoroughly after dealing with a spillage.

### 6.2. Environmental precautions

**Environmental precautions**

Not considered to be a significant hazard due to the small quantities used. Collect and dispose of spillage as indicated in

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Section 13.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up**

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Provide adequate ventilation. Collect and place in suitable waste disposal containers and seal securely. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Avoid generation and spreading of dust. Flush contaminated area with plenty of water. Do not close container tightly, due to the risk of excessive pressure build-up. Wash thoroughly after dealing with a spillage.

### 6.4. Reference to other sections

**Reference to other sections**

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions**

Avoid spilling. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. Do not eat, drink or smoke when using this product. Avoid inhalation of vapours/spray and contact with skin and eyes. Provide adequate ventilation. Container must be kept tightly closed when not in use. Wear protective gloves. Wash hands thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions**

Store in tightly-closed, original container in a dry and cool place. Keep only in the original container. Protect from sunlight. Store at temperatures between 4°C and 40°C.

**Storage class**

Chemical storage. Acid-reactive storage.

### 7.3. Specific end use(s)

**Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

**Occupational exposure limits**

Long-term exposure limit (8-hour TWA): 1.50 mg/m3

Short-term exposure limit (15-minute): 3.00 mg/m3

**SODIUM CARBONATE (CAS: 497-19-8)**

| | |
|---|---|
| DNEL | Industry - Inhalation; Long term : 10 mg/m3 |

### 8.2. Exposure controls

**Protective equipment**

**Appropriate engineering controls**

Provide adequate ventilation.

**Eye/face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

**Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin

contact is possible. Wear protective gloves made of the following material: Nitrile rubber. Neoprene. Polyethylene. Polyvinylidene chloride/polyethylene (PVDC/PE). To protect hands from chemicals, gloves should comply with European Standard EN374.

**Hygiene measures**

Wash hands after handling.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

**Appearance**

Tablet.

**Colour**

White.

**Odour**

Chlorine.

**pH**

pH (diluted solution): ~6.0 @ 1.0 %

**Solubility(ies)**

Soluble in water.

**Oxidising properties**

Does not meet the criteria for classification as oxidising.

### 9.2. Other information

**Other information**

Not determined.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The following materials may react with the product: Acids.

### 10.2. Chemical stability

**Stability**

Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

Not determined.

### 10.4. Conditions to avoid

Avoid contact with acids.

### 10.5. Incompatible materials

**Materials to avoid**

Acids - oxidising. Acids - organic. Acids - non-oxidising. Flammable/combustible materials. Organic nitro compounds.

### 10.6. Hazardous decomposition products

Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide ($CO_2$). Chlorine. Hydrogen chloride (HCl). Nitrous gases ($NO_x$).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity - oral**

**ATE oral (mg/kg)**

2,709.43396226

**Inhalation**

May cause respiratory system irritation.

**Ingestion**

May be harmful if swallowed.

**Skin contact**

Skin irritation should not occur when used as recommended.

**Eye contact**

Causes serious eye irritation.

**Toxicological information on ingredients.**

**TROCLOSENE SODIUM**

**Acute toxicity - oral**

**ATE oral (mg/kg)**

1,436.0

**SODIUM CARBONATE**

**Acute toxicity - oral**

**Acute toxicity oral ($LD_{50}$ mg/kg)**

2,800.0

**Species**

Rat

**Acute toxicity - dermal**

**Acute toxicity dermal ($LD_{50}$ mg/kg)**

2000.01

**Species**

Rabbit

**ATE dermal (mg/kg)**

2000.01

## SECTION 12: Ecological Information

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

**12.1. Toxicity**

**Acute toxicity - fish**

Not determined.

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Ecological information on ingredients.

TROCLOSENE SODIUM

Acute aquatic toxicity

**LE(C)$_{50}$**

0.1 < L(E)C50 ≤ 1

**M factor (Acute)**

1

**Acute toxicity - aquatic invertebrates**

$EC_{50}$, 48 hours: <1.0mg/l mg/l, Daphnia magna

Chronic aquatic toxicity

**NOEC**

0.001 < NOEC ≤ 0.01

**Degradability**

Rapidly degradable

**M factor (Chronic)**

1

SODIUM CARBONATE

**Acute toxicity - fish**

$LC_{50}$, 96 hours: 300 mg/l, Lepomis macrochirus (Bluegill)

**Acute toxicity - aquatic invertebrates**

, : 200-227 mg/l, Freshwater invertebrates, Freshwater invertebrates

### 12.2. Persistence and degradability

**Persistence and degradability**

There are no data on the degradability of this product.

### 12.3. Bioaccumulative potential

No data available on bioaccumulation.

Ecological information on ingredients.

SODIUM CARBONATE

The product is not bioaccumulating.

### 12.4. Mobility in soil

**Mobility**

The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

SODIUM CARBONATE

This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods**

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 3077

**UN No. (IMDG)** 3077

**UN No. (ICAO)** 3077

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (sodium troclosene)

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (sodium troclosene)

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (sodium troclosene)

**Proper shipping name (ADN)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (sodium troclosene)

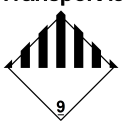
### 14.3. Transport hazard class(es)

**ADR/RID class** 9

**IMDG class** 9

**ICAO class/division** 9

**Transport labels**




### 14.4. Packing group

**ADR/RID packing group** III

**IMDG packing group** III

**ICAO packing group** III

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

Yes.

### 14.6. Special precautions for user

**Tunnel restriction code** (E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**National regulations**

Control of Substances Hazardous to Health Regulations 2002 (as amended).

**EU legislation**

Commission Regulation (EU) No 453/2010 of 20 May 2010. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

**Guidance**

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Workplace Exposure Limits EH40.

### 15.2. Chemical safety assessment

## SECTION 16: Other information

**Revision comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

| | |
|---|---|
| **Revision date** | 18/06/2015 |
| **Revision** | 2.0 |
| **Supersedes date** | 11/06/2012 |

**Risk phrases in full**

R2 Risk of explosion by shock, friction, fire or other sources of ignition.
R22 Harmful if swallowed.
R31 Contact with acids liberates toxic gas.
R36 Irritating to eyes.
R36/37 Irritating to eyes and respiratory system.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R8 Contact with combustible material may cause fire.

**Hazard statements in full**

H272 May intensify fire; oxidiser.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.