

Kamco Limited

MATERIAL SAFETY DATA SHEET

KAMCHLOR TABS

Revision date: 16/12/2013

Section 1: Identification of the substance/mixture and of the company undertaking

1.1. Product identifier

Product name: Kamchlor Tabs

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

Use if substance / mixture: Disinfection of water services

1.3. Details of the supplier of the safety data sheet

Company name: Kamco Ltd
Unit 9, Curo Park
Frogmore
St Albans
Herts
AL2 2DD

Tel: 01727 875020

Fax: 01727 875335

Email: info@kamco.co.uk

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification: Xn; R22 Xi: R36/37, N; %50/53, R31

2.2. Label elements

Label elements: KAMCHLOR TABS

Hazard symbols:



Risk phrases:

R22	Harmful if swallowed
R31	Contact with acids liberates toxic gas
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.

Safety phrases:

P6 Warning! Do not use together with other products. May release dangerous gas (chlorine)

S2 Keep out of the reach of children.

S8 Keep container dry.

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

S41 In case of fire and/or explosion, do not breathe fumes.

S51 Use only in well ventilated areas.

S60 This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

Adipic acid CAS-No: 124-04-0 EC No: 204-673-3	
Classification (EC 1272/2008) Eye irritation 2 – H319	Classification (67/548/EEC) Xi: R36
Sodium Carbonate CAS-No: 497-19-8 EC No: 207-838-8	
Classification (EC 1272/2008) Eye irritation 2 – H319	Classification (67/548/EEC) Xi: R36
Troclosene Sodium CAS-No: 2893-78-9 EC No: 220-767-7	
Classification (EC 1272/2008) OX.Sol. 2-H272 EUH031 Acute Tox. 4 – H302 Eye irritation 2 – H319 STOT Single 3 – H335 Aquatic Acute 1 – H400 Aquatic Chronic 1 – H410	Classification (67/548/EEC) E: R2 O; R8 Xn: R22 Xi; R36/37 R31 N; R50/53

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Skin irritation is not anticipated when used normally. In the event of irritation, remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists 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 eye lids. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

Ingestion: DO NOT INDUCE VOMITING. Remove victim immediately from source of exposure. Drink plenty of water. Get medical attention immediately. Provide rest, warmth and fresh air.

Inhalation: Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

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

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: This product is not flammable. Fire can be extinguished using water spray, dry power or carbon dioxide.

5.2. Special hazards arising from the substance or mixtures

Exposure hazards: Fire causes formation of toxic gases. Decomposes above 250 degrees C with release of chlorine and other toxic fumes. In case of fire, toxic gases may be formed (Cox, NOx). Fire or high temperature create: Very corrosive gases/vapours/fumes of chlorine; hydrogen chloride.

5.3. Advice for fire-fighters

Special fire-fighting procedures: Note: use air supplied respirators to protect against gases/fumes. Dike and collect extinguishing water.

Protective equipment for fire fighters: Self contained breathing apparatus and full protective clothing must be worn.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Use protective gloves, goggles and suitable protective clothing. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

6.2. Environmental precautions

Environmental precautions: Not relevant considering the small amounts uses. The product should not be dumped in nature, but collected and delivered according to agreement with local authorities.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Collect in containers and seal securely. Ensure that waste and contaminated materials are collected and removed from the work areas as soon as possible in a suitably labelled container. Avoid generation and spreading of dust. Flush with plenty of water to clean spillage area. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Do not close drums containing wet or damp material.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid spilling, Skin and eye contact. Do not handle broken packages without protective equipment. Keep away from heat, sparks, and open flame. Do not eat, drink, or smoke when using the product. Observe good chemical hygiene practices. Avoid inhalation of vapours/spray and contact with skin and eyes. Provide good ventilation. Container must be kept tightly closed. Protect against direct sunlight. Follow instructions and ensure correct dilution of the product before use.

7.2. Conditions for safe storage, including and compatibilities

Storage conditions: Store in tightly closed original container in a dry, cool, and well ventilated place. Keep in original container.

7.3. Specific end use(s)

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace Exposure Limits (WEL): No exposure limits noted for ingredients.

8.2. Exposure controls

- Engineering measures:** No specific ventilation requirements noted, except that this product should not be used in a confined space without good ventilation.
- Respiratory protection:** No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
- Hand protection:** For prolonged or repeated skin contact use suitable gloves.
- Eye protection:** If risk of splashing, wear safety goggles or face shield.
- Skin protection:** For prolonged or repeated skin contact use suitable gloves.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- State:** Flat tablet
- Colour:** White
- Odour:** Characteristic chlorine odour
- Solubility in water:** Soluble in water
- pH:** Approx 4-6 in solution

9.2. Other information

Section 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

- Chemical stability:** Stable under normal temperature conditions

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

- Conditions to avoid:** Avoid contacts with acids and oxidising substances. Avoid exposure to high temperatures or direct sunlight. Avoid contact with strong reducing agents.

10.5. Incompatible materials

- Materials to avoid:** Flammable/combustible materials. Organic materials, oils, grease, sawdust, reducing agents, nitrogen containing compounds, oxidising substances, acids, and alkalis, damp or slightly wet conditions.

10.6. Hazardous decomposition products

- Hazardous Decomp. Products:** Fire creates: Hydrogen chloride, Hydrogen Cyanide (HCN). In case of fire, toxic gases (CO,CO₂,NO_x) may be formed.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxic Dose 1 – LD50: 992mg/kg (oral-mouse)

Symptoms / routes of exposure

Skin contact: Skin irritation is not anticipated when used normally

Eye contact: Irritating to eyes

Ingestion: Harmful if swallowed

Inhalation: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Delayed / immediate effects:

Section 12: Ecological information

12.1. Toxicity

EC 50, 48 Hrs. Daphnia, mg/l < 1 mg NaDCC

12.2. Persistence and degradability

Persistence and degradability: The product is expected to be biodegradable

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

Section 13: Disposal considerations

13.1. Waste treatment methods

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

Section 14: Transport information

Transport class: ADR/RID/AND Class 9 Miscellaneous dangerous substances

UN No. ADR/RID/ADN 3077 IMDG 3077 ICAO 3077

UN proper shipping name: Environmentally hazardous substance, Solid, N.O.S. (Trosclosene Sodium)

Packing Group: ADR/RID/AND/IMDG/ICAO III

Environmental Hazards: Environmentally Hazardous Substance/ Marine Pollutant

Special precautions for user:

EMS: F-A, S-F

Emergency Action Code: 2Z

Hazard no. (ADR): 90

Tunnel Restriction Code: (E)

Section 15: Regulatory information

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

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716)

Approved Code of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply

Guidance Notes

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

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No.1689.

15.2. Chemical Safety Assessment

Chemical safety assessment:

Section 16: Other information

Troclosene sodium acronyms: NaDCC, sodium dichloroisocyanurate, 1-Sodium-3, 5-dichloro-1, 3, 5-triazine-2, 4, 6-trione.

Other information: Revision date: 16/12/2013

Revision 11.

SDS no. 10243

Risk Phrases:

R31: Contact with acids liberates gas

R8: Contact with combustible material may cause fire.

R22: Harmful if swallowed.

R36/37: Irritating to eyes and respiratory system.

R36: Irritating to eyes.

R2: Risk of explosion by shock, friction, fire, or other sources of ignition.

R50/53: Very toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment.

H319: Causes serious eye irritation.

H302: Harmful if swallowed.

Hazard Statements:

H302: Harmful if swallowed.

H335: May cause respiratory irritation.

H272: May intensify fire: oxidiser.

H410: Very toxic to aquatic life with long lasting effects.

H400: Very toxic to aquatic life.

Legal disclaimer:

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Kamco Limited shall not be held liable for any damage resulting from handling or from contact with the above product.