



**KAMCO LTD**  
**SAFETY DATA SHEET**  
**SYSTEM PRE-CLEAN**

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

**Product identifier**

Product Name: SYSTEM PRE-CLEAN

**Relevant identified uses of the substance or mixture and uses advised against**

Use of substance / mixture: A neutral pH precommission cleaner for heating and chilled water systems.

**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 Website: www.kamco.co.uk

**Emergency telephone number**

01727 875 020

**Section 2: Hazards identification**

**Classification of the substance or mixture**

Classification under CHIP: T:R25;

**Label elements**

Hazard Symbols:



Risk phrases: R25: Toxic if swallowed.

Safety phrases: S38: In case of insufficient ventilation, wear suitable respiratory equipment.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Precautionary phrases:

**Other hazards**

PBT: This substance is not identified as a PBT substance

# KAMCO LTD

## SAFETY DATA SHEET

### SYSTEM PRE-CLEAN

#### Section 3: Composition/information on ingredients

##### Hazardous ingredients

Ingredients	EINECS	CAS	CHIP Classification	Percent
SODIUM NITRATE		7631-99-4	Xn:R22; Xi:R36/37/38; O:R8;	1-10%
SODIUM NITRITE	231-555-9	7632-00-0	T:R25; O:R8;	1-10%
TRIETHANOLAMINE	203-049-8	102-71-6	Xi:R36/38;	1-10%

#### Section 4: First aid measures

##### Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
- Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.
- Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible.

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

- Skin contact:** There may be irritation and redness at the site of contact.
- Eye contact:** There may be pain and redness.
- Ingestion:** There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.
- Inhalation:** There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

#### Section 5: Fire-fighting measures

- Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
- Exposure hazards:** Toxic. In combustion emits toxic fumes.
- Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

#### Section 6: Accidental release measures

- Personal precautions:** Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.
- Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.
- Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

# KAMCO LTD

## SAFETY DATA SHEET

### SYSTEM PRE-CLEAN

#### Section 7: Handling and Storage

Handling requirements: Avoid direct contact with the substance. Avoid the formation or spread of mists in the air. Ensure there is sufficient ventilation of the area.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Polyethylene. Polypropylene. Stainless steel. Unsuitable packaging: metals and alloys.

#### Section 8: Exposure controls/personal protection

##### Control Parameters

##### Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

#### Section 9: Physical and chemical properties

State: Liquid

Solubility in water: Miscible in all proportions

Colour: Colourless

Odour: Odourless

Relative density: 1.08      pH: 8 - 9

#### Section 10: Stability and reactivity

Chemical Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Soft metals (aluminium, zinc etc.) Strong acids.

Hazardous decomposition products: In combustion emits toxic fumes.

#### Section 11: Toxicological information

##### Information on toxicological effects

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be pain and redness.

Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

# KAMCO LTD

## SAFETY DATA SHEET

### SYSTEM PRE-CLEAN

#### Section 12: Ecological information

Ecotoxicity values: Not applicable

Persistence and degradability: Biodegradable.

Bioaccumulative potential: No bioaccumulation potential.

Mobility in solid: Readily absorbed into soil.

PBT identification: This substance is not identified as a PBT substance

Other adverse effects: Negligible ecotoxicity.

#### Section 13: Disposal considerations

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Return empty containers to the supplier for recycling. Damaged containers should be destroyed by cutting up or by incineration. Do not use for potable water.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

#### Section 14: Transport information

UN number: -

Shipping name: NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

Transport class:

Packing group:

#### Section 15: Regulatory information

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

#### Section 16: Other information

Chemical safety assessment: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010

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. This company shall not be held liable for any damage resulting from handling or from contact with the above product.