Kamco Limited MATERIAL SAFETY DATA SHEET

SYSTEM PRE-CLEAN

Revision date: 22/9/2011

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

1.1. Product identifier

Product name: SYSTEM PRE-CLEAN

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

Use of substance / mixture: A neutral pH pre-commission cleaner for heating and chilled

water systems.

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 under CHIP: T: R25

Classification under CLP: Acute Tox. 4: H302

Most important adverse effects: Toxic if swallowed

2.2. Label elements

Label elements under CLP:

Hazard statements: H302: Harmful if swallowed

Signal words: Warning

Hazard pictograms: GHS07: Exclamation mark



Precautionary statements: P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product. P301+310: IF SWALLOWED: Immediately call a POISON

CENTER or doctor. P330: Rinse mouth.

P501: Dispose of to comply with local regulations.

Label elements under CHIP:

Hazard symbols: Toxic



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).

S24/25: Avoid contact with skin and eyes.

S28 After contact with skin, wash immediately with plenty of

water.

2.3. Other hazards

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

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

SODIUM NITRITE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
231-555-9	7632-00-0	O: R8; T:R25; N:R50	Ox. Sol. 3: H272; Acute Tox. 3: H301;	1-10%
			Aquatic Acute 1: H400	

TRIETHANOLAMINE

203-049-8	102-71-6	Xi: R36/38	1	1-10%		

Section 4: First aid measures

4.1. 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.

4.2. 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.

Delayed / immediate effects: Immediate effects can be expected after short-term

exposure.

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

Immediate / special treatment: Immediate medical attention is required. Show this safety

data sheet to the doctor in attendance.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should

be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Toxic. In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective

clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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 MSDS. Turn leaking containers leak-side up to prevent the escape of

liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage

using bunding.

6.3. Methods and material for containment and cleaning up

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.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of MSDS

Section 7: Handling and storage

7.1. Precautions for safe handling

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.

7.2. Conditions for safe storage, including and incompatibilities

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

closed.

Suitable packaging: Polyethylene. Polypropylene Stainless steel. Unsuitable

packaging: metals and alloy.

7.3. Specific end use(s)

Specific end uses(s): A pre-commission cleaner for heating and chilled water

systems.

Section 8: Exposure controls/personal protection

8.1. Control parameters

8.2. 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

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Odourless

Solubility in water: Miscible in all proportions

pH: 8-9

9.2. Other information

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions

10.2. Chemical stability

Chemical stability: Stable under normal conditions

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or

storage conditions.

Decomposition may occur on exposure to conditions or

materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat

10.5. Incompatible materials

Materials to avoid: Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (toxic)	ING	Hazardous: calculated

Symptoms / routes of exposure

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.

The 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.

Delayed / immediate effects: Immediate effects can be expected after short-term

exposure.

Section 12: Ecological information

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability: Biodegradable

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

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

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

Transport class: This product is not classified for transport.

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

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

Other information: This safety data sheet is prepared in accordance with

Commission Regulation (EU) No: 453/2010

Phrases used in s.2 and 3: H272: May intensify fire; oxidiser.

H301: Toxic if swallowed. H302: Harmful if swallowed. H400: Very toxic to aquatic life.

R8: Contact with combustible material may cause fire.

R25: Toxic if swallowed.

R36/38: Irritating to eyes and skin. R50: Very toxic to aquatic organisms.

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.