



**KAMCO LTD**  
**SAFETY DATA SHEET**  
**Systemsafe IC**

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

**1.1. Product identifier**

Product Name: Systemsafe IC

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

Use of substance / mixture: A liquid corrosion inhibitor.

**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,  
Email: info@kamco.co.uk Website: www.kamco.co.uk

**1.4. Emergency telephone number**

01727 875 020 (Office Hours 8-5)

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

Classification under CLP: AcuteTox.4: H302;EyeIrrit.2: H319;SkinIrrit.2: H315

**2.2. Label elements**

**Label Elements under CLP:**

Hazard statements: H302: Harmful if swallowed. H315: Causes skin irritation. H319: Causes serious eye irritation.

Signal word: Warning

Hazard pictograms:



Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+312: IF SWALLOWED: Call a POISON CENTER/doctor/... if you feel unwell.  
P302+352: IF ON SKIN: Wash with plenty of water/...  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321: Specific treatment (see instructions)

**2.3. Other hazards**

PBT: This substance is not identified as a PBT substance

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

##### 3.2. Hazardous ingredients

Ingredients	EINECS	CAS	Reach Reg No.	CLP Class	Percent
2-PHOSPHONOBUTANE-1,2,4-TRICARBOXYLIC ACID	253-733-5	37971-36-1	01-2119436643-39-XXXX	Met. Corr. 1; Eye Irrit. 2;	1-10%
BENZOTRIAZOLE	202-394-1	95-14-7	01-2119979079-20	Acute Tox. 4; Eye Irrit. 2; Aquatic Chronic 3 ;	<1%
SODIUM HYDROXIDE	215-185-5	1310-73-2	01-2119457892-27	Skin Corr. 1A ;	1-10%
SODIUM NITRITE	231-555-9	7632-00-0	01-2119471836-27-XXXX	Ox. Sol. 3; Acute Tox. 3; Aquatic Acute 1 ;	10-30%

Contains :

#### 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. Consult a doctor.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

##### 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 irritation and redness. The eyes may water profusely.

Ingestion: Headaches or general malaise may result. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Absorption through the lungs can occur causing symptoms similar to those of ingestion.

#### 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: 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: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

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#### 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: 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 SDS.

### Section 7: Handling and Storage

#### 7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

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

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

Suitable packaging: Polyethylene. Unsuitable packaging: metals and alloys.

#### 7.3. Specific end use(s)

Specific end use(s): No data available.

### Section 8: Exposure controls/personal protection

#### 8.1. Control Parameters

Ingredients	State	Workplace exposure limits		Respirable dust	
		8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
SODIUM HYDROXIDE	FR	2 mg/m <sup>3</sup>		-	-
SODIUM HYDROXIDE	UK	-	2 mg/m <sup>3</sup>	-	-

#### 8.1. DNEL/PNEC Values

DNEL / PNEC: No data available

#### 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

Solubility in water: Miscible in all proportions

Colour: Pale yellow

Relative density: 1.184      pH: 10-11

Odour: Barely perceptible odour

Viscosity Test Method:

Boiling Point / Range: ca. 100 (H<sub>2</sub>O)

Melting Point / Range:

Vapour Press: No data available.

#### 9.2. Other information

Other information: No data available.

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#### 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

##### 10.4. Conditions to avoid

Conditions to avoid: Heat.

##### 10.5. Incompatible materials

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

##### 10.6. Hazardous decomposition products

Hazardous decomposition products: In combustion emits toxic fumes.

#### Section 11: Toxicological information

##### 11.1. Information on toxicological effects

###### BENZOTRIAZOLE

SKN	RBT	LD50	>2000	mg/kg
ORL	RAT	LD50	560	mg/kg

###### SODIUM HYDROXIDE

ORL	RBT	LDLO	500	mg/kg
IPR	MUS	LD50	40	mg/kg

###### SODIUM NITRITE

SCU	RAT	LD50	96600	µg/kg
ORL	RAT	LD50	180	mg/kg
ORL	MUS	LD50	175	mg/kg

##### Effects of mixture

Calculated

##### 11.2. Symptoms / routes of exposure

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

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: Headaches or general malaise may result. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Absorption through the lungs can occur causing symptoms similar to those of ingestion.

#### Section 12: Ecological information

##### 12.1. Toxicity

Ecotoxicity values: Not applicable

##### 12.2. Persistence and degradability

Persistence and degradability: No data available.

##### 12.3. Bioaccumulative potential

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Bioaccumulative potential: No bioaccumulation potential.

#### 12.4. Mobility in soil

Mobility in solid: Soluble in water.

#### 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: No data available.

### 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 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

#### 14.1. UN Number

UN number: 3287

#### 14.2. UN Proper shipping name

Shipping name: TOXIC LIQUID, INORGANIC, N.O.S.(SODIUM NITRITE)

#### 14.3. Transport hazard class(es)

Transport class: 6.1)

#### 14.4. Packing Group

Packing group: III

#### 14.6. Special precautions for user

Tunnel Code: E

Transport category: 2

### 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

Chemical safety assessment: 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.  
H290: May be corrosive to metals.  
H301: Toxic if swallowed.  
H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H400: Very toxic to aquatic life.

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H411: Toxic to aquatic life with long lasting effects.

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.