

# MATERIAL SAFETY DATA SHEET – FX<sup>2</sup> liquid

## ***Kamco Limited***

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### **1. Product name / description:**

**FX<sup>2</sup> flushing and descaling liquid**

### **2. Composition / information on ingredients:**

Blend of phosphoric acid, organic acids, water, wetting agents, corrosion inhibitors and methyl orange colour change indicator.

Phosphoric acid (> 34%). CAS no.: 7664-38-2

Citric acid CAS no.: 77-92-9

### **3. Hazards identification:**

Harmful to eyes, and can cause irritation to skin on prolonged contact. Solutions can cause acid burns.

### **4. FIRST AID MEASURES:**

Eyes: Flush with water immediately for at least 10 minutes. Seek medical attention.

Skin: Flush with water for at least 10 minutes. If large areas of skin are damaged or irritation persists, seek medical attention. Wash clothing before re-use.

Ingestion: DO NOT INDUCE VOMITING. Wash out mouth with water. Give patient water to drink. If patient feels unwell, seek medical attention. Never give an unconscious person anything by mouth.

Inhalation : Move to adequately ventilated area. If recovery is not rapid, seek medical attention.

### **5. Fire fighting measures:**

Material is not flammable. Use extinguisher suitable to cause of fire. Keep fire exposed containers cool with water spray.

### **6. Accidental release measures:**

Prevent large quantities entering drains, sewers, or water courses. Slowly neutralise with sodium carbonate, bicarbonate or hydroxide, and rinse with copious amounts of water.

### **7. Handling & storage:**

Handling: Avoid skin and eye contact.

Storage: Store at ambient temperatures. Keep container tightly closed and dry when not in use. Keep away from materials which react with acids. Keep NEUTRALISING CRYSTALS available to help deal with small spillages.

### **8. Exposure controls / personal protection:**

Respiratory protection: Avoid breathing vapour.

Hand protection: Wear rubber or PVC gloves.

Eye protection: Wear safety goggles or face shield.

**9. Physical & chemical properties:**

- Appearance: Pinkish-red liquid.
- Density: ca. 1.30 kg / litre.
- Odour: Very slight sweet odour.
- pH of 10% solution: ca. 1
- Solubility in water: miscible with water.

**10. Stability & reactivity:**

Conditions to avoid: Extremes of temperature.

Materials to avoid: Do not mix with oxidising agents.

Hazardous decomposition products: Decomposes at very high temperatures, giving white fumes of P<sub>2</sub>O<sub>5</sub>

**11. Toxicological information:**

Effects: Phosphoric acid of suitable purity is permitted food additive. Due to acid nature, will cause burns to exposed tissue.

**12. Ecological information:**

Does not present ecological hazard other than low pH.

**13. Disposal considerations:**

Dispose of by flushing away with water and neutralising with alkali to neutral pH. For large quantities, seek advice from specialist waste disposal company.

**14. Transport information:**

- UN No. 1805
- IMDG Class 8
- Packing group III
- ADR Class 8
- ICAO/IATA Class 8
- Shipping name: FX<sup>2</sup> liquid.

**15. Regulatory information:**

Symbol: CORROSIVE

- RISK PHRASES:

R34 Causes burns.

- SAFETY PHRASES:

S2 Keep out of reach of children.

S24/25 Avoid skin and eye contact.

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

S28 After contact with skin, wash immediately with plenty of soap-suds.

S46 If swallowed, seek medical advice immediately and show this MSDS sheet.

**16. Other information:**

Usual application of product: Flushing and descaling of heating and cooling systems.

Other precautions: Provide suitable ventilation when descaling. Some hydrogen may be evolved, and this is a flammable gas. Avoid smoking nearby, or any other means of ignition.

**Legal disclaimer:** The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.