



Nickel Safe Ice Machine Cleaner SAFETY DATA SHEET

1. Product and Company Identification

1.1.Product Name: Nickel Safe Ice Machine Cleaner
1.2.Distributor: National Refrigerants Ltd.,
4 Watling Close
Sketchley Meadows Industrial Estate
Hinckley
Leistershire
LE10 3EZ

1.3.Emergency Telephone No.:
IN AN EMERGENCY DIAL 999 (UK Only)
For specialist advice in an emergency telephone
+441455 630790

2. Composition/Information on Ingredient

Chemical Description: Phosphoric Acid
Hydroxyacetic Acid
Hazardous Component: Phosphoric Acid

3. Hazard Identification

Overview: DANGER! Corrosive to all body tissues. Causes destruction of eye and skin tissue. Harmful if inhaled or swallowed.

Potential Health Effects:

Inhalation: Corrosive to reparatory passages. May cause coughing, wheezing, laryngitis, shortness of breath, headache, and nausea.

Eye contact: Immediate irritation and burning followed by destruction of eye tissue.

Skin contact: Immediate irritation and burning followed by destruction of skin tissue. Moderately toxic when absorbed through skin. Aggravates pre-existing disorders.

Ingestion: Corrosive to gastrointestinal tract. May cause nausea, vomiting, loss of consciousness.

Chronic effects: Kidney and liver damage possible.

4. First Aid Measures

Inhalation: Remove victim to fresh air and keep warm. If breathing fails give artificial respiration. Authorised personnel may give oxygen if breathing is laboured. Obtain immediate medical attention.

Eye Contact: Flush eye for at least 15 minutes holding the eye open. Obtain immediate medical attention.

Skin contact: Flush with water or soap and water for 15 minutes or until all traces have been removed. Seek medical attention if symptoms develop and persist.

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Ingestion: DO NOT INDUCE VOMITING. Get immediate medical attention.
See also Section 11.

5. Fire Fighting Measures

Extinguishing Media: Dry Powder, Carbon dioxide (CO₂) Water fog or spray.

Hazard: Exposed to heat and fire toxic fumes of PO_x generated.

Fire Fighting Protective Equipment: Fire-fighters wear protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures (Spillage)

Personal Precautions: Use approved personal protective equipment. Evacuate the area.

Environmental Precautions: Keep non-neutralised material out of sewers, storm drains, surface water and soil. Notify National Rivers Authority and local Environmental Health Officer if major spillage occurs.

Recovery of Major Spillage: Contain spill with inert material. Absorb spilled material with sand or earth and remove to a safe place. Flush area with water.

Minor Spillage: Wash area down with copious amounts of water.

7. Handling and Storage

Handling: Always add acid to water; never water to acid. Avoid contact with skin, eyes and clothing. After handling this product wash hands before eating, drinking or smoking. If contact occurs remove contaminated clothing. If needed take first aid action shown above. Launder contaminated clothing before reuse.

Storage: Store in a dry place protected against moisture and water. Keep well separated from caustic or alkaline materials.

8. Exposure Controls & Personal Protection

Occupational Exposure Limits

Hazardous Ingredients	STEL mg/m ³
Phosphoric Acid (CAS# 7664-38-2)	3

Engineering Controls: Local exhaust recommended.

Personal Protection:

Respiratory: In cases where mist may be formed ventilate to maintain vapour concentrations below exposure limit. If not use a well maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand: Use nitrile gloves or PVC gauntlets.

Eye: Use chemical splash proof glasses or goggles

Skin: If skin contact or contamination of clothing is likely protective clothing must be worn.

9. Physical and Chemical Properties

Appearance: Colourless Liquid.

Odour: No odour.

pH: 1 - 2

Boiling Point: 130°C

Melting Point: Not applicable



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Flash Point: Not applicable.

Flammability Upper: Not applicable.

Flammability Lower: Not applicable.

Vapour Density (Air = 1): Same as water.

Specific Gravity: 1.2

10. Stability and Reactivity

Stability: Stable.

Conditions to Avoid:

Materials to Avoid: Alkaline materials, caustics.

Recommended Materials for equipment: Mild Steel, 316, polythene.

Hazardous Decomposition products: From combustion smoke, carbon monoxide, carbon dioxide

11. Toxicological Information

Phosphoric Acid	LD ₀ :	220 mg/kg	(unr – man)
	LD ₅₀ :	1530mg/kg	(oral – rat)
	LD ₅₀ :	2740 mg/kg	(skin – rat)
Hydroxyacetic Acid	LD ₅₀ :	1950 mg/kg	(oral – rat)
		2mg SEV	(eye – rabbit)

12. Ecological Information

Mobility: Soluble.

Persistence and Degradability:

Bio Accumulation:

Aquatic Toxicity: Dangerous to aquatic life in high concentrations.

Phosphoric Acid: 138 ppm/24 hr/ mosquito fish.TLm/fresh water

13. Disposal Considerations

Disposal Method: Dispose as hazardous waste at a controlled waste site. Do not dispose as domestic waste.

Contaminated Packaging: Empty completely and rinse with water. Dispose as hazardous waste at a controlled waste site.

14. Transport Information

Packaging size: 1 & 5 US gallon plastic bottles.

Class (ADR): 8

UN Number: 1760

Packing Group: III

Proper Shipping Name (ADR):

Corrosive liquid N.O.S. (phosphoric acid, Hydroacetic acid), 8, UN1760, PG III, LTD QTY

15. Regulatory Information

Supply Classification Hazard Pictogram: Corrosive.

Risk Phrases: 35 Causes sever burns

Safety Phrases: 2 Keep out of the reach of children



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

37/39 Wear suitable gloves and eye/face protection.

16. Other Information

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