

GUR THERMAL SYSTEMS CLEANING TECHNOLOGIES LTD.

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MSDS - Material Safety Data Sheet

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Name: **Ice-Clean**

Nickel-Safe Ice Machine Cleaner.

Company Identification: Gur Thermal Systems Cleaning Technologies Ltd., Israel.

For information call: +972 3 6492053 \ Fax: +972 3 6482892

Emergency Number: +972-544653064 / Local Health Authority.

2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Labeling according to EC Directives (1999/45/EC):

Corrosive compound. Harmful if swallowed. Moderate Toxic.

Causes eye and skin irritation & burns.

Sub risk: Corrosive.

Potential Short Term Health Effects -

Eye: Causes eye burns & eye damage.

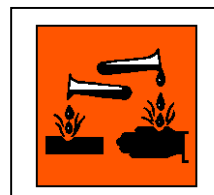
Skin: Causes skin burns or irritation.

Ingestion: large amounts may cause symptoms of abdominal pain, vomiting, and diarrhea.

Moderate toxic.

Inhalation: May cause respiratory tract irritation.

Labels: Corrosive compound



3 - COMPOSITION, INFORMATION ON INGREDIENTS

Components	Chemical formula	CAS Mo.	EC No.	Percent
Phosphoric Acid	H3P04	7664-38-2	2316332	Less than 50%
Non-hazardous detergent	N/A (Propriety products)	N/A	N/A	30% - 40%

4 - FIRST AID MEASURES

Eyes:

Flush eyes with plenty of water for at least 15 minutes, Remove contact lenses occasionally lifting the upper and lower lids. Get medical aid.

Skin:

Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical aid if irritation develops or persists.

Ingestion:

Drink plenty of water. Get medical aid. Do not induce vomiting.

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen.

Get medical attention immediately.

5 - FIRE FIGHTING MEASURES

Non combustible compound.

Use suitable extinguishing media - Water spray, CO₂, Foam.

Wear appropriate protective clothing.

Mount respiratory protective device, if necessary.

When heated to decomposition, may emit toxic fumes of PO_x & Cl.

6 - ACCIDENTAL RELEASE MEASURES

Use proper personal protective clothing & equipment.

Ventilate area of spill.

Spills: Dilute with a large amount of water & alkaline neutralizers.

Spills/Leaks: Absorb & collect spill in suitable disposal container.

Cleanup affected area.

7 - HANDLING and STORAGE

Handling:

Handle with care. Wash equipment thoroughly after handling.

Avoid contact with skin and eyes. Avoid breathing.

Avoid contact with clothing.

Storage:

Keep out of the reach of children. Store in a closed container away from strong alkaline.

Store in a tightly closed container.

Store in a cool, dry, well-ventilated area ,
away from incompatible substances as explosives

8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits-

OSHA PEL: TWA: 2 mg/m³

ACGIH TLV: Ceiling: 2 mg/m³

DPG MAK: 2 mg/m³

Personal Protective Equipment –

Eyes: Wear safety goggles or face shield.

Maintain eye wash fountain and quick-drench facilities
in work area.

Skin: Wear appropriate rubber gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to avoid
contact with skin and rubber \ PVC Apron & boots.

Respirators: A NIOSH/MSHA approved air purifying dust or mist

respirator. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Appearance:	Clear to light Red
Odor:	acidic
pH:	0 - 1
Vapor Pressure:	ab. 5 mm at 20 cen grade
Freezing point	< 32.00 °F (0 °C)
Boiling Point:	> 212.00 °F (100 °C)
Evaporation rate	< 1 (BuAc = 1)
Flash Point :	Not Applicable
Solubility:	Soluble in water
Specific Gravity/Density:	ab. 1.40 kg/dm ³

10 - STABILITY AND REACTIVITY

Normally stable.

Conditions to Avoid: Incompatible materials, sunlight & heat.

Incompatibilities with Other Materials: Strong Alkaline products.

Hazardous Polymerization: Will not occur.

If heated to decomposition, will emit toxic fumes of PO_x & Cl.

11 - TOXICOLOGICAL INFORMATION

Human poison by an unspecified route. Moderate toxic .

LD50 (oral , rat) = 1.5 gr \ body weight

IARC carcinogenic category - none

Epidemiology: No data available.

12 - ECOLOGICAL INFORMATION

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: phosphoric acid – 96 Hr LC50 mosquito fish: 138 mg/L
 hydrochloric acid – 48 Hr LC50 bluegill: 3.6 mg/L

Do not allow compound to reach ground water sources.

Hazardous to drinking water.

Must not reach sewage water or drainage ditch undiluted or un-neutralized.

13 - DISPOSAL CONSIDERATIONS

Dilute with water.

Dispose of in a manner consistent with local regulations.

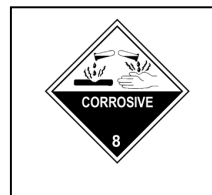
Transfer to a licensed disposal contractor.

14 - TRANSPORT INFORMATION

US DOT – Ground / Domestic

Proper Shipping Name: CORROSIVE LIQUID, N.O.S (Phosphoric Acids),
UN Number: 1760, Hazard Class: 8, Packing Group: III

Label: Class 8



IATA - Air

Proper Shipping Name: CORROSIVE LIQUID, N.O.S (Phosphoric Acids),
UN Number: 1760, Hazard Class: 8, Packing Group: III

IMO/IMDG - Water:

Proper Shipping Name: CORROSIVE LIQUID, N.O.S (Phosphoric Acids),
UN Number: 1760, Hazard Class: 8, Packing Group: III, Stowage Category: A
Labels: Class 8, EmS Number: F-A, S-B,
HTS Code: 3402.90.5030 - Cleaning Preparations,
Packaging Exceptions: <5L - Limited Quantity

RID/ADR - Rail, Road

Proper Shipping Name: CORROSIVE LIQUID, N.O.S (Phosphoric Acids),
UN Number: 1760, Hazard Class: 8, Packing Group: III

15 - REGULATORY INFORMATION

Reported \ included on the EPA TSCA inventory list.
Community Right To Know list.

Risk Phrase & H-Statements - Full text:

R20/21/22:	Harmful by inhalation, in contact with skin and if swallowed.
R34:	Causes burns
R36 /38:	Irritating to eyes.
R41:	Risk of serious damage to eyes.
H302:	Harmful if swallowed
H312:	Harmful in contact with skin
H314:	Causes severe skin burns and eye damage
H373:	May cause damage to organs through prolonged or repeated exposure

Safety Phrase: 20, 24 - 46, 60
Hazchem code: 2R.

16 - ADDITIONAL INFORMATION

According to EC Directive 91/155/EEC.

MSDS Creation Date: 2001. Amendment, by d.k. Revision: 2, 07\2013.

The information above is believed to be accurate & represents
the best information currently available to us.

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make their own investigations to determine the suitability of
the information for their particular purposes.

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damages, howsoever arising, even if has been advised of
the possibility of such damages.