

# GUR THERMAL SYSTEMS CLEANING TECHNOLOGIES LTD.

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## MSDS - Material Safety Data Sheet

### 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Name:** Clean-Air

Refresher detergent & biocide for Air Conditioning Equipment.

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

Non-Corrosive compound. May be harmful if swallowed. Non Toxic.

Sub risk: Non - Corrosive.

Potential Health Effects -

Eye: irritating.

Skin: low to moderately irritating.

Ingestion: may be irritating to mouth, throat and stomach

Inhalation: non - hazardous.

### 3 - COMPOSITION, INFORMATION ON INGREDIENTS

Mixture of NON hazard detergents, biocide and surfactants

Components	Chemical formula	CAS Mo.	Percent
Benzalkonium chloride	C22H40ClN	68424-85-1	Less than 5%
Nonionic Surfactant	Propriety	N/A	Less than 15%

### 4 - FIRST AID MEASURES

Eyes:

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

Skin:

non - hazardous.

Ingestion:

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

Inhalation:

Remove to fresh air.

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.

## 6 - ACCIDENTAL RELEASE MEASURES

Use proper clothing & equipment.  
Ventilate area of spill.  
Spills: Dilute with a large amount of water.  
Spills/Leaks: Absorb & collect spill in suitable disposal container.

## 7 - HANDLING and STORAGE

### Handling:

Handle with care. Wash thoroughly after handling.  
Avoid contact with skin and eyes. Avoid breathing.  
Avoid contact with clothing

### Storage:

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:

Insure adequate ventilation to control any misting conditions. Eye wash station and safety shower in handling area.

### Exposure Limits

No ingredients have an established exposure limit in current concentrations (TLV)  
OSHA PEL: non-establish  
ACGIH TLV: non-establish  
DPG MAK: non

### 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

Respirators: Specific use conditions (spraying/confined spaces) may require approved air purifying dust or mist respirator or European Standard EN 149.

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	liquid
<b>Appearance:</b>	light Blue
<b>Odor:</b>	Pleasant Odor
<b>pH:</b>	7-8
<b>Vapor Pressure:</b>	ab. 5 mm at 20 cen grade
<b>Freezing point</b>	< 32.00 °F (0 °C)
<b>Boiling Point:</b>	> 212.00 °F (100 °C)
<b>Evaporation rate</b>	< 1 ( BuAc = 1 )
<b>Flash Point :</b>	Not Applicable
<b>Solubility:</b>	Soluble in water
<b>Specific Gravity/Density:</b>	1.05 kg/dm <sup>3</sup>

## 10 - STABILITY AND REACTIVITY

Normally stable under recommended storage and handling conditions (see section 7).  
**Conditions to Avoid:** Incompatible materials, oxidizing agents, sunlight & heat.  
 light metals ( as Zn , Al ) & reactive organic compounds, carbon oxides (CO, CO<sub>2</sub>)  
 nitrogen oxides (NO, NO<sub>2</sub>...) Ammonia and Hydrogen Chloride (HCl).  
**Hazardous Polymerization:** Will not occur.

## 11 - TOXICOLOGICAL INFORMATION

Low order of acute toxicity.  
 Oral LD<sub>50</sub> (rat) > 2000 mg/kg.  
 Dermal LD<sub>50</sub> (rabbit) > 2000 mg/kg.  
 Inhalation LC<sub>50</sub> (rat) > 20 mg/litre/4h.  
 IARC carcinogenic category - none  
 Epidemiology: No data available.

## 12 - ECOLOGICAL INFORMATION

Product has not been tested; however, based on the components, this product is expected to have low acute toxicity to aquatic organisms.  
 Product is expected to be readily biodegradable.  
 Material is not expected to bioaccumulate.  
 The components in this product are water soluble and highly mobile in soil.  
 Do not allow material to run into surface waters, wastewater, sewers or soil.

## 13 - DISPOSAL CONSIDERATIONS

Dilute with water.  
 Dispose of in a manner consistent with local regulations.  
 Transfer to a licensed disposal contractor when required.

**14 - TRANSPORT INFORMATION****US DOT – Ground / Domestic:**

UN Number: Not required.

Dangerous Goods Class: Non-hazardous.

**IATA - Air**

UN Number: Not required.

Dangerous Goods Class: Non-hazardous.

**IMO/IMDG - Water:**

UN Number: Not required.

Dangerous Goods Class: Non-hazardous.

**RID/ADR - Rail, Road**

UN Number: Not required.

Dangerous Goods Class: Non-hazardous.

**15 - REGULATORY INFORMATION**

Reported \ included on the EPA TSCA inventory list.

Community Right To Know list.

Labeling (67/548/EEC to 1999/45/EC): Xi - Irritant

**Risk Phrases:**

R36/38 - Irritating to eyes and skin.

**Safety Phrases:**

S2 - Keep out of the reach of children.

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

S37/39 - Wear suitable gloves and eye/face protection.

**16 - ADDITIONAL INFORMATION**

According to EC Directive 91/155/EEC.

MSDS Creation Date: 2001. Amendment, by d.k. Revision: 4, 10\2013.

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

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