

## MSDS - Material Safety Data Sheet

### 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Name: **SX - 3**

Scale remover, Low-pH compound.

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.

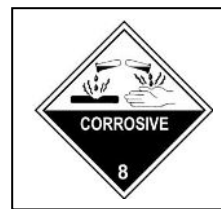
Skin: Causes skin burns or irritation.

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
Hydrochloric acid	HCl	7647-01-0	2315957	5% > 10%
Non-hazardous detergent	N/A (Propriety products)	N/A	N/A	15% - 20%

### 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<sub>x</sub> & 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/m<sup>3</sup>  
ACGIH TLV: Ceiling: 2 mg/m<sup>3</sup>  
DPG MAK: 2 mg\m<sup>3</sup>

### 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
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. 1.15 kg/dm <sup>3</sup>

## 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<sub>x</sub> & 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: 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 (Hydrochloric Acid),  
UN Number: 1760, Hazard Class: 8, Packing Group: III

**IATA - Air**

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

**IMO/IMDG - Water:**

Proper Shipping Name: CORROSIVE LIQUID, N.O.S (Hydrochloric Acid),  
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

Label: Class 8



**RID/ADR - Rail, Road**

Proper Shipping Name: CORROSIVE LIQUID, N.O.S (Hydrochloric Acid),  
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: 4, 07\2013.

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

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