

# A. GUR TECHNOLOGIES

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## MSDS - Material Safety Data Sheet

### 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Name: **SX-4**

Closed system cleaning compound

Company Identification: A. Gur Technologies, Israel.

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

Emergency Number: Local Health Authority.

### 2 - COMPOSITION, INFORMATION ON INGREDIENTS

Mixture of alkaline - Risk Phrases: 8 - CORROSIVE

Sodium Hydroxide - NaOH, CAS No. 1310-73-2, EC No. 2151855

Sequestering agents Sodium salts - Proprietary product.

Surfactants & non-hazardous detergent

### 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Corrosive compound. May be harmful if swallowed. Moderate Toxic.

Causes eye and skin irritation & burns.

Sub risk: Corrosive.

#### Potential 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.

### 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:

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 Na2O.

## 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 thoroughly after handling.  
Avoid contact with skin and eyes. Avoid breathing.  
Avoid contact with clothing.

### Storage:

Do not store near 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: 2 mg/m<sup>3</sup>  
ACGIH TLV: 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 or European Standard EN 149.

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Appearance:	Colorless to beige color
Odor:	caustic
pH:	ab. 13
Vapor Pressure:	ab. 5 mm at 20 cen grade
Boiling Point:	> 100 c.g
Evaporation rate	< 1 ( BuAc = 1 )
Flash Point :	Not Applicable
Solubility:	Soluble in water
Specific Gravity/Density:	ab. 1.25 kg/dm <sup>3</sup>

## 10 - STABILITY AND REACTIVITY

Normally stable.

Conditions to Avoid: Incompatible materials, sunlight & heat.

Incompatibilities with Other Materials: Strong acids, light metals ( as Zn , Al ) & reactive organic compounds.

Hazardous Polymerization: Will not occur.

If heated to decomposition, will emit toxic fumes of Na<sub>2</sub>O.

## 11 - TOXICOLOGICAL INFORMATION

Human poison by an unspecified route. Moderate toxic.

LD50 ( oral , rat ) ab. 1 gr \ body weight

IARC carcinogenic category - none

Epidemiology: No data available.

## 12 - ECOLOGICAL INFORMATION

Do not allow compound to reach ground water sources.

Hazardous to drinking water.

Must not reach sewage water or drainage ditch undiluted or 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 - domestic**

Shipping Name: Corrosive liquid, UN Number: 1760  
Hazard Class: 8. Packing Group: III.

**IMO - international**

Shipping Name: Corrosive liquid, UN Number: 1760  
Hazard Class: 8. Packing Group: III.

**IATA - air**

Shipping Name: Corrosive liquid, UN Number: 1760  
Hazard Class: 8. Packing Group: III.

**RID/ADR - rail, road**

Shipping Name: Corrosive liquid, 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.

Label: - Corrosive 8

Risk Phrase: 23 - 25, 35 - 37

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, 07/2006.

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

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