

# MATERIAL SAFETY DATA SHEET

## 1) IDENTIFICATION OF PRODUCT AND SUPPLIER

- **Product name:** **SYSTEM CLEANING SOLUTION**  
**Ref: SLNA-5900**
- **Utilisation:** Cleaning solution for Vital Scientific equipment  
*In vitro* diagnostic only
- **Supplier :** SEPPIM S.A.S.  
ZONE INDUSTRIELLE  
61500 SEES  
FRANCE  
Tel: 33 (0) 2 33 81 21 00  
Fax: 33 (0) 2 33 28 77 51

## 2) HAZARDS IDENTIFICATION

- **Main Hazard:** According to Directives 67/548/EEC, 1999/45/EC and their adaptations for dangerous products classification, this product is classified as Corrosive.
- **For Human:** *Effect of acute exposure:*
  - . Eyes contact: Causes severe eyes burns.
  - . Skin contact: Causes severe skin burns.
  - . Inhalation: May cause irritation to the respiratory tract.
  - . Ingestion: Causes mouth, throat, oesophagus and gastrointestinal tract burns. May be harmful and can induce vomiting, fainting and stomach ache. May cause perforation of gastrointestinal tract.
- **For Environment:** Possible effect due to pH change. Possible effect on aquatic organisms
- **Classification:** C - Corrosive
- **Risks and security sentences:** R35 S26-28-36/37/39-45

## 3) COMPOSITION/INFORMATION ON INGREDIENT

- **Description:** Alkaline cleaning solution.
- **Hazardous ingredient:**

	%	Symbol(s)	Risk Sentence(s)	EINECS
<b>Sodium hydroxide</b>	< 5.4	C	35	215-185-5
<b>Sodium hypochlorite</b>	< 2	C - N	31-34-50	231-668-3

## 4) FIRST AID MEASURES

- **Eyes contact:** Flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical advice.
- **Skin contact:** Flush area with plenty of water for at least 15 minutes. Remove contaminating clothing and shoes. Seek medical advice if symptoms appear.
- **Inhalation:** Remove to fresh air. If not breathing give artificial respiration, seek medical advice.
- **Ingestion:** Do not induce vomiting. Wash out mouth with water provided person is conscious. Seek medical advice immediately.

## 5) FIRE-FIGHTING MEASURES

- **Extinguishing media:** Use agent most appropriate to extinguish surrounding fire.
- **Special fire fighting procedures:** As in any fire, wear self-contained breathing apparatus and protective clothing.
- **Thermal decomposition:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
- **Other information:** Prevent fire-fighting water from entering surface water and groundwater.

## 6) ACCIDENTAL RELEASE MEASURES

- **Individual protection:** Avoid contact with eyes, skin and clothing. Do not breathe vapours.
- **Measure for environmental protection:** Do not allow to enter drainage system, surface and ground water.
- **Measure for cleaning/collecting:** Spilled substance should be removed immediately. Soak up liquids with absorbent substances. Rinse well with water, provide fresh air. Do not allow to enter sewerage system without dilution. Collect waste in closed disposal containers. Disposal procedures have to be respected (see § 13).
- **Absorbent material:** Inert material.

## 7) HANDLING AND STORAGE

- **Handling:** Open and handle vials with due care. Avoid eyes, skin contacts. Do not breathe vapours. Have a wash after handling. The usual precautions taken when handling chemicals should be observed. (See §8)
- **Storage:** At 15-25°C. Keep container tightly closed. Store in a well-ventilated area away from strong acids.

## 8) EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Engineering controls:** Use adequate ventilation to keep airborne concentrations low. Safety shower and eye bath.
- **General hygiene measures:** Wash thoroughly after handling. Wash contaminated clothing before reuse.
- **Preventive measure:**
  - . Respiratory protection: In case of vapours formation, the use of this product should require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.
  - . Eye protection: Wear chemical safety goggles.
  - . Hands protection: Wear chemical resistant gloves.
- **Professional exposure limits: (France)**
  - . Sodium hypochlorite no value
  - . Chloride STEL : 3 mg/m<sup>3</sup>
  - . Sodium hydroxide TWA : 2 mg/m<sup>3</sup>

## 9) PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Liquid
  - **Colour:** Colourless to slightly yellowish
- Properties:**
- **pH:** > 13
  - **Others data:** Not available.

## 10) STABILITY AND REACTIVITY

- **Stability:** Stable until the expiry date stated on the label.
- **Conditions to avoid:** Stable if stored at 15-25°C. Protect from light. Avoid exposure to heat and contact with incompatible materials.
- **Hazardous decomposition products:** Refer to § 5.
- **Incompatible materials:** Strong acids.

## 11) TOXICOLOGICAL INFORMATION

- LD50 and toxicological information are not known for this product.
- Route of exposure: refer to § 2
- The product should be handled with the care usual when dealing with chemicals.
- Disposal procedures have to be respected (see § 13).
- Information on components:

*Sodium hydroxide:*

- . Acute toxicity: Intraperitoneal toxicity: LD50 (mouse) 40 mg/kg
- . Irritation : Eyes, monkey : 1 %/24H : severe irritation / Skin, rabbit : 500 mg/24H : severe irritation / Eyes, rabbit : 0,4 mg : mild irritation / Eyes, rabbit : 1 % : severe irritation / Eyes, rabbit : 0,05 mg/24H : severe irritation / Eyes, rabbit : 1 mg/24H : severe irritation

*Sodium hypochlorite:*

- . Acute toxicity: Oral toxicity: LD50 (mouse) 5800 mg/kg (Change in monitor activity, gastrointestinal: other changes)
- . Irritation: Eyes, rabbit: 10 mg: moderate irritation

## 12) ECOLOGICAL INFORMATION

- LC50 and ecological information are not known for this product. (Possible effects due to pH change. Possible effects on aquatic organisms).
- Do not allow to enter drainage system, surface and ground water.
- Disposal procedures have to be respected (see § 13).

-Information on components:

*Sodium hydroxide:*

- Fish: Onchorhynchus mykiss CL50: 45.4 mg/L /96 h (in hard water) (IUCLID).
- Fish: L. macrochirus CL50: 99 mg/L /48 h (IUCLID).
- Shellfish: Daphnia magna CE50: 76 mg/L /24 h

*Sodium hypochlorite:*

- Fish: LC50 (Onchorhynchus mykiss) = 0.07 mg/L /48 h
- Fish: LC50 (L. macrochirus) = 1.1 mg/L /96 h
- Shellfish: EC50 (Daphnia magna) = 0.07 – 0.7 mg/L /24 h
- Bacteria : EC50 (Photobactérium phosphoreum) = 100 mg/L /15 min

## 13) DISPOSAL CONSIDERATIONS

- **Type of primary container:** Plastic vial.
- **Waste evacuation method:** This must be disposed of in compliance with antipollution and other laws of the country concerned.

## 14) TRANSPORT INFORMATION

**RID/ADR:** UN# : 1824  
Class: 8  
PG : III  
Proper Shipping Name : Sodium hydroxide, solution

**IMDG:** UN# : 1824  
Class: 8  
PG : III  
Proper Shipping Name : Sodium hydroxide, solution

**IATA :** UN# : 1824  
Class: 8  
PG : III  
Proper Shipping Name : Sodium hydroxide, solution

## 15) REGULATORY INFORMATION

According to European classification 67/548/EEC, 1999/45/EC and their adaptations:

-Classification: **C - Corrosive**

-Risk sentences: R35: Causes severe burns.

-Security sentences: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28: After contact with skin, wash immediately with plenty of water.  
S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## 16) OTHER INFORMATION

The material safety data sheet is established according to the Regulation (EC) N° 1907/2006. The information herein is based on the current extent of our knowledge and is believed to be correct but is provided without warranty of any kind. The recipient of our product is responsible for observing all applicable laws and regulations.

Symbol(s) and risk sentence(s):

C : Corrosive

N: Dangerous for the environment

R31: Contact with acids liberates toxic gas

R34: Cause burns

R35: Causes severe burns.

R50: Very toxic to aquatic organisms.

Modifications from previous version: §1, 2, 3, 7, 8, 9, 16.