

# Material Safety Data Sheet

According to 1907/2006EC, Article 31

## 1. Identification of substance:

**Product name:** Yumizen G Clean SYS  
**Cat.No:** 1300036421  
**Application of the substance /  
the preparation:** **Laboratory reagent For In Vitro Diagnostic Use**  
**Manufacturer/Supplier:** HORIBA ABX SAS  
Parc Euromédecine - Rue du Caducée  
BP 7290  
34184 MONTPELLIER CEDEX 4 - FRANCE  
Tel: +33 (0) 4 67 14 15 16  
Fax: +33 (0) 4 67 14 15 17  
documentation.med@horiba.com  
**Emergency information:** + 800 67 14 15 16 (supplier)

## 2. Hazards identification

### Classification according to Regulation (EC) No 1272/2008:

Metal Corrosive 1

Skin Corrosive, Category 1B

Eye Damage 1

Aquatic Acute 1

Aquatic Chronic 2



### Signal word:

Danger

### Hazard statements:

H314: Causes severe skin burns and eye damage.

H290: May be corrosive to metals.

H318: Causes serious eye damage.

H400: Very toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

### Precautionary statements:

P234: Keep only in original container.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P310: Immediately call a POISON CENTER or doctor/physician.

P321: Specific treatment (see ... on this label).

P390: Absorb spillage to prevent material damage.

P405: Store locked up.

P501: Dispose of contents and container in accordance with all local, regional, national and international regulations.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.


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P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
EUH031: Contact with acids liberates toxic gas.

### 3. Composition/Data on components:

#### Dangerous components according to EC-criteria:

CAS: 7681-52-9 EC: 231-668-3	Sodium hypochlorite	 Met. Corr. 1, Skin Corr. 1B, Eye Damage 1, STOT S.E. 3, Aquatic Acute 1, Aquatic Chronic 1, H290, H314, H318, H335, H400, H410, EUH031	<16%
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### 4. First aid measures

**General information:** No special measures required.  
**Inhalation:** Supply fresh air; consult doctor in case of symptoms.  
**Skin contact:** Wash skin with water and soap.  
**Eye contact:** Immediately rinse opened eye for several minutes under running water. Consult doctor in case of symptoms.  
**Ingestion:** Rinse out the mouth. Do not induce vomiting. Seek medical treatment.

### 5. Fire fighting measures

**Suitable extinguishing agents:** CO<sub>2</sub>, extinguishing powder or water jet.  
**Protective equipment:** Wear self-contained breathing apparatus.  
**Specific risks:** Non determined  
**Additional recommendations:** None

### 6. Accidental release measures:

**Person-related safety precautions:** Wear a lab coat, protective gloves and safety goggles.  
**Measures for environmental protection:** Do not allow product to reach sewage system or water bodies.  
**Measures for cleaning/collecting:** Absorb with liquid-binding material (diatomite, acid binders, universal binders).  
**Additional information:** No dangerous materials are released.

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### 7. Handling and storage

**Handling**

**Safe handling:** No special measures required.

**Protection against explosions and fires:** No special measures required.

**Storage**

**Storerooms and containers:** No special requirements.

**Storage in one common storage facility:** Not required.

**Further storage conditions:** Protect from direct sunlight, store at 15-35 °C.

### 8. Exposure controls and personal protection

**Components with limit values at the workplace:** Not required.

**Additional information:** The lists that were valid during the compilation were used as basis.

**General protective and hygienic measures:** The usual precautionary measures should be adhered to general rules for handling chemicals.  
Avoid contact with the eyes and skin.

**Personal protective equipment:**

**Breathing equipment:** Not necessary, if room is well-ventilated.

**Hand protection:** Protective gloves

**Eye protection:** Safety glasses recommended during refilling.

**Skin protection:** Lab coat.

**Hygiene measures:** Wash hands before and after use.

### 9. Physical and chemical properties

**General Information**

**Form:** Fluid

**Colour:** Yellow

**Odour:** Chlorine-like

**Melting point/Melting range:** Not determined

**Boiling point/Boiling range:** 100°C

**Flash point:** Not applicable

**Self-inflammability:** Product is not self igniting

**Danger of explosion:** Product is not explosive.

**Vapour pressure at 20°C:** 23 hPa

**Density at 20°C** 1.01 g/cm<sup>3</sup>

**Solubility in / Miscibility with Water:** Fully miscible

**pH-value at 20°C:** ~12

**Viscosity:** 1 mPas (dynamic at 20°C)

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### 10. Stability and reactivity

**Thermal decomposition:** No decomposition if used according to specifications.

**Conditions to be avoided:** Contact with acid.

**Dangerous reactions:** No dangerous reactions known.

**Dangerous products of decomposition:** No dangerous decomposition products known.

### 11. Toxicological information

**Potential acute health effects:**

**Inhalation:** Not determined.

**Ingestion:** Harmful.

**Skin contact:** Causes severe skin burns.

**Eye contact:** Causes severe eye damage.

**Acute toxicity:**

Ingredient name	Examination	Species	Result	Exposure
Sodium hypochlorite	LD50 Oral	mouse	5800mg/kg	-

**Potential chronic health effects:** None determined.

### 12. Ecological information

**General notes:** Not determined.

**Mobility:** Not determined.

**Degradability:** Not determined.

**Bio accumulative potential:** Not determined.

**Ecotoxicology:** Not determined.

**Other hazardous effects:** None determined.

### 13. Disposal considerations

**Product:**

**General recommendation:** The product must be disposed of as a laboratory chemical according to local regulations.

**Contaminated packaging:**

**Recommendation:** Incineration. There are no uniform EC-regulations for the disposal of packaging as waste

### 14. Transport information

**International transport regulations:**

Regulatory information	UN number	Proper shipping name	Classes	Packing group	Label	Additional information
ADR/RID Class	1791	Hypochlorite solution	8	II		Remarks Limited quantity

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ADNR Class	1791	Hypochlorite solution	8	//		Remarks Limited quantity
IMDG Class	1791	Hypochlorite solution	8	//		Remarks Limited quantity
IATA Class	1791	Hypochlorite solution	8	//		Remarks HAZARDOUS

### 15. Regulatory information

**Labeling according to directive 67/548/EGK.**

**Other regulations:** 2000./XXV., 2004./XXVI law of chemical safety and mandatory regulation 44/2000. (XII. 27.) EüM., 33/2004. ESZCSM regulation of dangerous materials and preparations, procedure rules 2000./ XLIII. law of waste management 98/2001. (VI. 15.) government regulation, 16/2001. (VII. 18.) KöM regulation.

### 16. Other information:

*Horiba Medical provides the information in this data sheet in good faith, declaring it is up- to-date at time of revision. However this document is intended only as a guide for professional use, according to the intended purposes of the product. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.*