


**Material Safety Data Sheet**  
According to 1907/2006EC, Article 31

**1. Identification of substance:**

**Product name:** *Yumizen G SORB*  
**Cat.No:** 1300036418  
**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:**

Skin Irritation, Category 2   
Eye Irritation, Category 2

**Signal word:**

Warning

**Hazard statements:**

H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H290: May be corrosive to metals.

**Precautionary statements:**

P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P390: Absorb spillage to prevent material damage.  
P405: Store locked up.  
P406: Store in corrosive resistant container with a resistant inner liner.  
P501: Dispose of contents and container in accordance with all local, regional,  
national and international regulations.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P337+P313: If eye irritation persists: Get medical advice/attention.

## Material Safety Data Sheet

According to 1907/2006EC, Article 31

### 3. Composition/Data on components:

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

CAS: 7681-52-9 EC: 231-668-3	Sodium hypochlorite	 Skin Corrosive 1B (H314); Aquatic Acute 1 (H400), (EUH031)	<3,0%
---------------------------------	---------------------	--	-------

### 4. First aid measures

<b>General information:</b>	No special measures required.
<b>Inhalation:</b>	Supply fresh air; consult doctor in case of symptoms.
<b>Skin contact:</b>	Wash skin with water.
<b>Eye contact:</b>	Immediately rinse opened eye for several minutes under running water. Consult doctor in case of symptoms.
<b>Ingestion:</b>	In case of persistent symptoms consult doctor.

### 5. Fire fighting measures

<b>Suitable extinguishing agents:</b>	CO <sub>2</sub> , extinguishing powder or water jet.
<b>Protective equipment:</b>	No special measures required.
<b>Specific risks:</b>	Non determined
<b>Additional recommendations:</b>	None

### 6. Accidental release measures:

<b>Person-related safety precautions:</b>	Wear lab coat, protective gloves and safety goggles.
<b>Measures for environmental protection:</b>	Dilute with much water.
<b>Measures for cleaning/collecting:</b>	Absorb with liquid-binding material (diatomite, acid binders, universal binders).
<b>Additional information:</b>	No dangerous materials are released.

### 7. Handling and storage

<b>Handling</b>	
<b>Safe handling:</b>	No special measures required.
<b>Protection against explosions and fires:</b>	No special measures required.
<b>Storage</b>	
<b>Storerooms and containers:</b>	No special requirements.
<b>Storage in one common storage facility:</b>	Not required.
<b>Further storage conditions:</b>	Protect from direct sunlight, store at 2-8 °C.

## Material Safety Data Sheet

According to 1907/2006EC, Article 31

### 8. Exposure controls and personal protection

<b>Components with limit values at the workplace:</b>	Not required.
<b>Additional information:</b>	The lists that were valid during the compilation were used as basis.
<b>General protective and hygienic measures:</b>	The usual precautionary measures should be adhered to general rules for handling chemicals.
<b>Personal protective equipment:</b>	
<b>Breathing equipment:</b>	Not necessary, if room is well-ventilated.
<b>Hand protection:</b>	Protective gloves
<b>Eye protection:</b>	Safety glasses recommended during refilling.
<b>Skin protection:</b>	Lab coat.
<b>Hygiene measures:</b>	Wash hands before and after use.

### 9. Physical and chemical properties

#### General Information

<b>Form:</b>	Liquid
<b>Colour:</b>	Transparent
<b>Odour:</b>	Chlorine-like
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	No data
<b>Boiling point/Boiling range:</b>	100°C
<b>Flash point:</b>	Not applicable
<b>Self-inflammability:</b>	Product is not self-igniting.
<b>Danger of explosion:</b>	Product is not explosive.
<b>Vapour pressure at 20°C:</b>	23 hPa
<b>Density at 20°C</b>	1.01 g/cm <sup>3</sup>
<b>Solubility in / Miscibility with Water:</b>	Fully miscible
<b>pH-value at 20°C:</b>	~12.0
<b>Viscosity:</b>	1 mPas (dynamic at 20°C)

### 10. Stability and reactivity

<b>Thermal decomposition / conditions to be avoided:</b>	No decomposition if used according to specifications.
<b>Dangerous reactions</b>	No dangerous reactions known.
<b>Dangerous products of decomposition:</b>	No dangerous decomposition products known.

## Material Safety Data Sheet

According to 1907/2006EC, Article 31

### 11. Toxicological information

**Potential acute health effects:**

**Inhalation:**

No data available.

**Ingestion:**

Sodium hypochlorite: LD50 oral mouse: 5800 mg/kg bw.  
The toxicity estimate is for pure or concentrated substance, not for this dilute preparation.

**Skin contact:**

Irritant for skin and mucous membranes.

**Eye contact:**

Irritant.

**Acute toxicity:**

No data available.

**Potential chronic health effects:**

No data available.

### 12. Ecological information

**General notes:**

Water hazards class 1: slightly hazardous for water.

**Mobility:**

No data available.

**Degradability:**

Biological decay > 90%.

**Bio accumulative potential:**

No data available.

**Ecotoxicology:**

No data available.

**Other hazardous effects:**

No data available.

### 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	1719	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium hypochlorite)	8	II		Remarks Limited quantity
ADNR Class	1719	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium hypochlorite)	8	II		Remarks Limited quantity
IMDG Class	1719	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium hypochlorite)	8	II		Remarks Limited quantity
IATA Class	1719	CAUSTIC ALKALI LIQUID, N.O.S. (Sodium hypochlorite)	8	II		Remarks Excepted quantity

**Material Safety Data Sheet**  
According to 1907/2006EC, Article 31

**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.*