

# Safety Data Sheet

## According to SS586:2014

Clorox Bleach Pen Gel

Version 1.0

Issue date: 10/10/2014

Revision date: 10/10/2014

SDS Record Number: CSSS-TCO-010-115554

### Section 1 Identification of the substance/mixture and of the company/undertaking

#### Product identifier:

Identification on the label/Trade name: Clorox Bleach Pen Gel

Additional identification: Not available

Identification of the product: See section 3

Index Number: Not available

REACH registration No.: Not available

#### Relevant identified uses of the substance and uses advised against:

##### Identified uses:

Bleach

##### Uses advised against:

Not available.

#### Details of the supplier of the safety data sheet:

Supplier(Manufacturer): The Clorox Company

Address: 1221 Broadway. Oakland, CA 94612. USA

Contact person(E-mail): -

Telephone: -

Fax: -

#### Emergency telephone Number:

For Medical Emergencies call: 1-800-446-1014

Transportation Emergencies, call Chemtrec: 1-800-424-9300

Available outside office hours? YES  NO

### Section 2 Hazards Identification

#### Classification of the substance/mixture:

<b>GHS Classification</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Hazardous to the aquatic environment - ACUTE	Category 1
	Hazardous to the aquatic environment - CHRONIC	Category 1

#### label elements:

##### Hazard Pictograms:



##### Signal Word(S):

Warning

##### Hazard Statement:

Causes skin irritation

Causes serious eye irritation

**Precautionary statement:**

Very toxic to aquatic life with long lasting effects  
Wash hands thoroughly after handling.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN: Wash with plenty of soap and water.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If skin irritation occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.  
Take off contaminated clothing and wash before reuse.  
Collect spillage.  
Dispose of contents/container in according with local regulation.

**Other hazards:**

Not available.

**Section 3 Composition/information on ingredients**

**Substance/Mixture:** Mixture

**Ingredient(s):**

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Alumina	N/A	1344-28-1	215-691-6	1 – 5%
Sodium hypochlorite	N/A	7681-52-9	231-668-3	1 – 5%
Sulfonic acids, petroleum, sodium salts	N/A	68608-26-4	271-781-5	1 – 5%
Lauryldimethylamine oxide	N/A	1643-20-5	216-700-6	0.1 – 1%

**Section 4 First aid measures****Description of first aid measures:**

In all cases of doubt, or when symptoms persist, seek medical attention.

**In case of inhalation:**

Move to fresh air. If symptoms persist, call a physician. Get medical attention immediately if symptoms occur.

**In case of skin contact:**

Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.

**In case of eyes contact:**

If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area.

**In case of ingestion:**

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

**Most important symptoms and effects, both acute and delayed:**

Causes skin irritation. Causes serious eye irritation.

**Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically.

**Section 5 Fire-Fighting measures**

**Extinguishing media:**

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** water spray

**Special hazards arising from the substance or mixture**

Carbon oxides.

**Special fire fighting methods and special protective actions for fire-fighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Section 6 Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:**

**For non-emergency personnel:** Avoid contact with eyes. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.

**For emergency responders:** Wear an appropriate NIOSH/MSHA approved respirator if dust is generated.

**Environmental Precautions:**

Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

**Methods for Containment and Cleaning up:**

Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labeled containers.

**Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

**Additional information:**

Not applicable.

**Section 7 Handling and storage**

**Precautions for safe handling:**

**Protective measures:** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

**Advice on general occupational hygiene:** Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

**Conditions for safe storage, including any incompatibilities:**

Keep containers tightly closed in a dry, cool and well-ventilated place.

**Specific end use(s):**

Not applicable.

**Section 8 Exposure Controls/Personal Protection**

**Control parameters:**

**OCCUPATIONAL EXPOSURE LIMITS (OEL)**

Product name: Clorox Bleach Pen Gel

Version #: 1.0

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**INGREDIENT DATA:**

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US ACGIH Threshold Limit Values (TLV)	Alumina	Alumina	1mg/m <sup>3</sup>	Not Available	Not Available	TLV® Basis: Pneumoconiosis; LRT irr; neurotoxicity

**EMERGENCY LIMITS:**

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
Clorox Bleach Pen Gel	Not Available	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
Alumina	Not Available	Not Available
Sodium hypochlorite	Not Available	Not Available
Sulfonic acids, petroleum, sodium salts	Not Available	Not Available
Lauryldimethylamine oxide	Not Available	Not Available

**Exposure controls:**

**Appropriate engineering controls:** Use in a well-ventilated area.

**Individual protection measures, such as personal protective equipment:**

**Eye/face protection:** Tightly fitting safety goggles.

**Hand protection:** Wear protective gloves.

**Body protection:** Wear protective clothing.

**Respiratory protection:** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Thermal hazards:** Wear suitable protective clothing to prevent heat.

**Environmental exposure controls:** Avoid discharge into the environment.

According to local regulations, Federal and official regulations.

**Section 9 Physical and chemical properties****Information on basic physical and chemical properties:**

<b>Appearance:</b>	Liquid Gel
<b>Colour:</b>	White
<b>Odour:</b>	Slight chlorine Floral
<b>Odour threshold:</b>	Not available
<b>pH:</b>	12.3 - 12.9
<b>Melting point/range (°C):</b>	Not available
<b>Boiling point/range (°C):</b>	Not available
<b>Flash point (°C):</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Flammability limit - lower (%):</b>	Not available
<b>Flammability (solid, gas):</b>	Not available
<b>Ignition temperature (°C):</b>	Not available
<b>Upper/lower flammability/explosive limits:</b>	Not available
<b>Vapour pressure (20°C):</b>	Not available
<b>Vapour density:</b>	Not available

<b>Density:</b>	Not available
<b>Bulk density (kg/m<sup>3</sup>):</b>	Not available
<b>Water solubility (g/l):</b>	Soluble in water
<b>n-Octanol/Water (log Po/w):</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Viscosity, dynamic (mPa.s):</b>	Not available
<b>Explosive properties:</b>	Not available
<b>Oxidising properties:</b>	Not available
<b>Molecular Formula:</b>	Not available
<b>Molecular Weight:</b>	Not available

**Other information:**

<b>Fat solubility(solvent– oil to be specified) etc:</b>	Not available
<b>Surface tension:</b>	Not available
<b>Dissociation constant in water( pKa):</b>	Not available
<b>Oxidation-reduction Potential:</b>	Not available
<b>Specific gravity:</b>	Not available

**Section 10 Stability and reactivity**

<b>Reactivity:</b>	The substance is stable under normal storage and handling conditions.
<b>Chemical stability:</b>	Stable at room temperature in closed containers under normal storage and handling conditions.
<b>Possibility of hazardous reactions:</b>	No dangerous reactions known.
<b>Conditions to avoid:</b>	Incompatible materials.
<b>Incompatible materials:</b>	Strong acids. Strong bases. Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	Carbon oxides.

**Section 11 Toxicological information**

**Toxicokinetics, metabolism and distribution:**

**Non-human toxicological data:** Not available

**Information on toxicological effects:**

**Acute toxicity:**

Alumina(CAS#1344-28-1)

**LD50(Oral, Rat):** > 5000 mg/kg

**LD50(Dermal, Rabbit):** Not available

**LC50(Inhalation, Rat):** Not available

Sodium hypochlorite( CAS#7681-52-9)

**LD50(Oral, Rat):** 8200 mg/kg

**LD50(Dermal, Rabbit):** > 10000 mg/kg

**LC50(Inhalation, Rat):** Not available

**Skin corrosion/Irritation:** Causes skin irritation

**Serious eye damage/irritation:** Causes serious eye irritation

Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT- single exposure:	Not classified
STOT-repeated exposure:	Not classified

## Section 12 Ecological information

### Toxicity: Sodium hypochlorite (CAS#7681-52-9)

Acute toxicity	Time	Species	Method	Evaluation	Remarks
LC50	N/A	Fish	OECD 203	N/A	N/A
EC50	141 µg/L	Daphnia	OECD 202	N/A	N/A
EC50	0.0365 mg/L	Algae	OECD 201	N/A	N/A

Persistence and degradability:	Not available.
Bioaccumulative potential:	Not available.
Mobility in soil:	Not available.
Results of PBT&vPvB assessment:	Not available.
Other adverse effects:	Very toxic to aquatic life with long lasting effects

## Section 13 Disposal considerations

Waste treatment methods:	The material should be disposed of by incineration in a chemical incinerator in compliance with national and regional requirements.
Product / Packaging disposal:	If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

## Section 14 Transport information

	Land transport(ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	3082	3082	3082
UN Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM HYPOCHLORITE, LAURAMINE OXIDE),	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM HYPOCHLORITE, LAURAMINE OXIDE),	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM HYPOCHLORITE, LAURAMINE OXIDE),
Transport hazard Class	9	9	9
Packaging group	III	III	III
Environmental hazards	Yes	Yes	Yes
Special precautions for user	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	IBC03	IBC03	IBC03

## Section 15 Regulation information

### Safety, health and environmental regulations/legislation specific for the substance or mixture:

Alumina (1344-28-1) is found on the following regulatory lists	"Singapore Permissible Exposure Limits of Toxic Substances", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs"
Sodium hypochlorite (7681-52-9) is found on the following regulatory lists	"Singapore Permissible Exposure Limits of Toxic Substances", "International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs"
Sulfonic acids, petroleum, sodium salts (68608-26-4) is found on the following regulatory lists	Not available.
Lauryldimethylamine oxide (1643-20-5) is found on the following regulatory lists	Not available.

## Section 16 Other information

### Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

### Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

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