Safety Data Sheet

According to SS586:2014

Clorox Original Bleach

Version 1.0

Printing date: 10/10/2014 Revision date: 10/10/2014 SDS Record Number: CSSS-TCO-010-115569

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

Product identifier:

Identification on the label/Trade name: Clorox Original Bleach

Additional identification: Not available See section 3 Identification of the product: Not available Index Number: Not available **REACH** registration No.:

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 Χ

Section 2 Hazards Identification

Classification of the substance/mixture:

GHS Classification skin corrosion/irritation category 2

> serious eye damage/eye irritation category 2A hazardous to the aquatic category 2

environment(CHRONIC)

label elements:

Hazard Pictograms:



Signal Word(S): Warning

Hazard Statement: Causes skin irritation.

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Causes serious eye irritation.

Toxic to aquatic life with long lasting effects.

Precautionary statement:

Wash thoroughly after handling.

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 corroding 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
Sodium hypochlorite	N/A	7681-52-9	231-668-3	3-7%

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 not breathing, give artificial respiration. Administer oxygen if breathing is difficult and you are trained.

In case of skin contact:

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

In case of eyes contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately if irritation persists. Remove contact lenses, if applicable, and continue flushing. Do not rub affected area.

In case of ingestion:

Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Consult 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:

If skin irritation or rash occurs, get medical advice/attention.

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Section 5 Fire-Fighting measures

Extinguishing media:

Suitable extinguishing media: Use dry chemical, CO₂, water spray or regular foam. Dike fire-control water for later

disposal.

Unsuitable extinguishing media: Do not use halogenated extinguishing agents or foam. Do not scatter spilled

material with high pressure water streams.

Special hazards arising from the

substance or mixture

Some may burn but none ignite readily. Some may be transported hot

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: Provide adequate ventilation. Avoid inhalation of vapour or dust. Avoid skin and eye

contact. Refer to section 8 of SDS for personal protection details.

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

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas.

Methods for Containment and Cleaning up: Take up with sand, earth or other noncombustible absorbent material With clean

shovel place material into clean, dry container and cover loosely; move containers

from spill area.

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: Containers, even those that have been emptied, may contain explosive vapours. Do

NOT cut, drill, grind, weld or perform similar operations on or near containers. Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

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)

INGREDIENT DATA:

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US ACGIH Threshold	Sodium	Sodium	Not Available	Not Available	2 mg/m3	TLV® Basis:
Limit Values (TLV)	hydroxide	hydroxide				URT, eye, &

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			skin irr

EMERGENCY LIMITS:

Ingredient	TEEL-0	TEEL-1	TEEL-2	TEEL-3
Clorox Original Bleach	Not Available	Not Available	Not Available	60 ppm

Ingredient	Original IDLH	Revised IDLH
Sodium hypochlorite	Not Available	Not Available

Exposure controls:

Use in a well-ventilated area. Appropriate engineering controls: Individual protection measures, such as personal protective equipment:

If splashes are likely to occur, wear: Safety glasses with side-shields. None required Eye/face protection:

for consumer use.

Hand protection: Wear protective gloves. Impervious gloves. **Body protection:** Wear protective clothing. Long sleeved clothing.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection:

> respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Thermal hazards: Wear suitable protective clothing to prevent heat.

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

According to local regulations, Federal and official regulations.

Section 9 Physical and chemical properties

Information on basic physical and chemical properties:

Liquid Appearance:

Colour: Clear to light yellow

Odour: Bleach

Odour threshold: Not available

pH: 12.5

Melting point/range (°C): Not available Boiling point/range (°C): Not available Flash point (°C): Not available **Evaporation rate:** Not available Flammability limit - lower (%): Not available Flammability (solid, gas): Not available Ignition temperature (°C): Not available **Upper/lower flammability/explosive limits:** Not available Vapour pressure (20°C): Not available Vapour density: Not available Not available Density: Bulk density (kg/m³): Not available Water solubility (g/l): Soluble in water Not available n-Octanol/Water (log Po/w):

Auto-ignition temperature:

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Not available

Decomposition temperature: Not available Viscosity, dynamic (mPa.s): Not available **Explosive properties:** Not available **Oxidising properties:** Not available Molecular Formula: Not available **Molecular Weight:** Not available

Other information:

Fat solubility(solvent- oil to be specified)

etc:

Not available

Surface tension: Not available Dissociation constant in water(pKa): Not available **Oxidation-reduction Potential:** Not available Specific gravity: Not available

Section 10 Stability and reactivity

Reactivity: The substance is stable under normal storage and handling conditions.

Chemical stability: Stable at room temperature in closed containers under normal storage and handling

conditions.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: Incompatible materials. Exposure to air or moisture over prolonged periods.

Incompatible materials: Acids. Bases. Oxidizing agents.

Hazardous decomposition products: Carbon oxides.

Section 11 Toxicological information

Toxicokinetics, metabolism and distribution:

Non-human toxicological data: Not available

Information on toxicological effects:

Acute toxicity:

Sodium hypochlorite (CAS#7681-52-9)

LD50(Oral, Rat): 8200mg/kg LD50(Dermal, Rabbit): >10000 mg/kg Not available LC50(Inhalation, Rat):

Acute toxicity:

Sodium hypochlorite (CAS#7681-52-9)

LD50(Oral, Rat): 3g/kg

Not available LD50(Dermal, Rabbit): LC50(Inhalation, Rat): >42g/m3/1h

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 Not classified Reproductive toxicity:

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STOT- single exposure: Not classified STOT-repeated exposure: Not classified

Section 12 Ecological information

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

Acute to	xicity	Time	Species	Method	Evaluation	Remarks
LC50	0.032 other:	96h	Fish	OECD 203	N/A	N/A
	mg TRO /L					
EC50	141 μg/L	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	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: Harmful 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	UN3082	UN3082	UN3082			
UN Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.*(Sodium hypochlorite)	Environmentally hazardous substance, liquid, n.o.s.*(Sodium hypochlorite)	Environmentally hazardous substance, liquid, n.o.s.*(Sodium hypochlorite)			
Transport hazard Class	III	III	III			
Packaging group	9	9	9			
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:

Sodium hypochlorite(7681-52-9) is found on the	"Singapore Permissible Exposure Limits of Toxic Substances" List.
following regulatory lists	"International Agency for Research on Cancer (IARC) - Agents Classified by

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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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