

SAFETY DATA SHEET

Issuing Date 08-Jul-2016

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Revision Number 4

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<u>Product identifier</u> Product Name	Clorox® Disinfecting Bleach ₂	
<u>Other means of identification</u> Synonyms	None	
EPA Pesticide registration number	5813-111	
<u>Recommended use of the chemical</u>	and restrictions on use	
RecommendedUse	Bleach	
Uses advised against	No information available	
Details of the supplier of the safety data sheet		
Supplier Name	The Clorox Company	
Supplier Address	1221 Broadw ay Oakland CA 94612 US	
Supplier Phone Number	1-510-271-7000	
<u>Emergency telephone number</u>	For Medical Emergencies, call: 1-800-446-1014 For Transportation Emergencies, call Chemtrec: 1-800-424-9300	

2. HAZARDS IDENTIFICATION

Classification

This product is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 1
Skin corrosion/irritation	Category 2

GHS Label elements, including precautionary statements

Emergency Overview			
Danger			
Physical state Liquid	Odor Bleach		
	Danger		

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician Specific treatment (see supplemental first aid instructions on this label)

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Skin

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

No information available

Other information

No information available

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Sodium hypochlorite 7681-52-9	5-10	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

<u>General Advice</u>	Immediate medical attention is required if in eyes. Show this safety data sheet to the doctor in attendance.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	Wash skin with soap and water. Wash off with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation occurs: Get medical advice/attention.
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get medical attention immediately if symptoms occur.
Ingestion	Do NOT induce vomiting. Rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center.
Self-protection of the first aider	Ensure that medical personnel are aw are of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects Indication of any immediatemedic	Burning. al attention and special treatment needed
Notes to Physician	Treat symptomatically. Product is corrosive to eyes. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact	No.
Sensitivity to Static Discharge	No.

Protective equipment and precautions for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with eyes. Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people aw ay from and upwind of spill/leak.	
Other Information	Refer to protective measures listed in Sections 7 and 8.	
Environmental precautions		
Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers. Take up with sand, earth or other non- combustible absorbent material. Prevent product and washings from entering drains,	

sew ers or surface water due to high toxicity to aquatic organisms.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from
	moisture. Keep out of the reach of children. Store away from other materials.
Incompatible Products	Strong acids. Strong bases. Acids. Bases. Oxidizing agent. Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure GuidelinesThis product, as supplied, does not contain any hazardous materials with occupational
exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Measures	Show ers
	Eyew ash stations
	Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves. Impervious gloves.

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

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allow ed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all contaminated protective equipment before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state
Appearance
Color

Property pH Melting / freezing point Boiling point / boiling range Flash Point Liquid Clear Yellow Light yellow

Values 12.1 No data available No data available No data available Odor Odor Threshold Bleach No information available

Remarks Method

None know n None know n None know n None know n

Evaporation Rate	No data available	None know n
Flammability (solid, gas)	No data available	None know n
Flam mability Limit in Air		
Upper flam mability lim it	No data available	
Lower flam mability lim it	No data available	
Vapor pressure	No data available	None know n
Vapor density	No data available	None know n
Specific Gravity	1.1	None know n
Water Solubility	Soluble in water	None know n
Solubility in other solvents	No data available	None know n
Partition coefficient: n-octanol/w	/aterN o data available	None know n
Autoignition temperature	No data available	None know n
Decomposition temperature	No data available	None know n
Kinematic viscosity	No data available	None know n
Dynamic viscosity	No data available	None know n
Explosive properties	No data available	
Oxidizing properties	No data available	

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	

10. STABILITY AND REACTIVITY

<u>Reactivity</u>

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Exposure to air or moisture over prolonged periods.

Incompatible materials

Strong acids. Strong bases. Acids. Bases. Oxidizing agent. Strong oxidizing agents.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Inhalation	May cause irritation of respiratory tract. May cause pulmonary edema.
Eye contact	Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage.
Skin contact	Causes skin irritation.
Ingestion	Ingestion causes burns of the upper digestive and respiratory tracts. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hypochlorite 7681-52-9	8200 mg/kg (Rat)	>10000 mg/kg (Rabbit)	-
7681-52-9			

Information on toxicological effects

Symptoms	Causes serious eye damage.	Causes skin irritation.
Delayed and immediate effects as	<u>well as chronic effects from s</u>	hort and long-term exposure

Sensitization Mutagenic Effects Carcinogenicity	No informatic No informatic The table bel		agency has listed any ing	redient as a carcinogen.
Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite	-	Group 3	-	-
7681-52-9				

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic Toxicity	Carcinogenic potential is unknow n.
Target Organ Effects	Respiratory system. Eyes. Skin. Gastrointestinal tract (GI).
Aspiration Hazard	No information available.

<u>Numerical measures of toxicity</u> <u>Product Information</u> The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 53,480.00 mg/kg ATEmix (inhalation-dust/mist) 58.30 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Persistence and Degradability

No information available.

Bioaccumulation

No information available

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods	Dispose of in accordance with federal, state and local regulations.
Contam inated Packaging	Do not reuse empty containers. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

- DOT Not regulated per 49 CFR 171.4(c)(1)
- TDG Not regulated per 49 CFR 171.4(c)(1)
- IATA Not restricted per IATA Special Provision A197

IMDG/IMO Not restricted per IMDG Code 2.10.2.7 Marine Pollutant exemption

Transport in Bulk (more than 450L or 119 gal):

DOT

UN Number: UN3082 Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Sodium Hypochlorite, Sodium Hydroxide) Hazard Class: 9 Packing Group: Environmental Hazards: Marine Pollutant Description: RQ UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Sodium Hypochlorite, Sodium Hydroxide), 9, III, Marine Pollutant.

TDG

UN Number: UN3082 Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Sodium Hypochlorite, Sodium Hydroxide) Hazard Class: 9 Packing Group: Environmental Hazards: Marine Pollutant Description: RQ UN 3082 Environmentally Hazardous Substance, Liquid, N.O.S. (Sodium Hypochlorite, Sodium Hydroxide), 9, III, Marine Pollutant.

15. REGULATORY INFORMATION

International Inventories

TSCA DSL

Complies

All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hypochlorite 7681-52-9	100 lb			X

<u>CERCLA</u>

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hypochlorite 7681-52-9	100 lb	-	RQ 100 lb final RQRQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Sodium hypochlorite 7681-52-9	Х	Х	Х	Х	
Sodium hydroxide 1310-73-2	Х	Х	Х	Х	

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide label

DANGER: CORROSIVE. Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear protective eyew ear and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the restroom. Avoid breathing vapors and use only in a well-ventilated area.

International Regulations

Canada WHMIS Hazard Class Not determined

16. OTHER INFORMATION					
NFPA	Health Hazards 3	Flammability 0	Instability 0	Physical and Chemical Hazards -	
HMIS	Health Hazards 3	Flammability 0	Physical Hazard 0	Personal Protection X	
Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501				
Issuing Date Revision Date Revision Note	08-Jul-20 27-Aug-2 Updated I		ion classifications		

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet