The Clorox Company

SAFETY DATA SHEET

1. Identification

Product identifier	**Clorox® Concentrated Bleach Powder**
Other means of identification	Document Number: USA002073
Recommended use	Bleach
Recommended restrictions	None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name	The Clorox Company
Address	1221 Broadway Oakland, CA 94612 United States
Telephone	1-510-271-7000
E-mail	Not available.
Emergency phone number	Medical Emergency: 1-800-446-1014 Transportation Emergency: 1-800-424-9300 (Chemtrec)

2. Hazards Identification

Physical hazards	Not classified.	
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation	Category 3
	Skin corrosion/irritation	Category 1C
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements

Signal word	Danger
Hazard statement	Harmful if swallowed. Toxic if inhaled. Causes severe skin burns and eye damage.

Precautionary statement

Prevention	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid breathing dust or mists. Wear protective gloves, protective clothing, eye protection and face protection. Use only outdoors or in a well-ventilated area.
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Disposal	Dispose of container in accordance with local, regional, national and international regulations.
Hazard(s) not otherwise classified (HNOC)	Damp or wet material may generate hazardous and toxic gases. Damp or wet material may generate nitrogen trichloride, an explosion hazard. Contact with water slowly liberates irritating and hazardous chlorine containing gases. Decomposes at temperatures above 410°F with liberation of harmful gases. Contact with acids liberates very toxic gas. Heating over 176 °F can initiate a self-sustaining decomposition which releases large amounts of heat and gas including toxic fumes. NFPA Class 1 Oxidizer (An oxidizer that does not moderately increase the burning rate of combustible materials with which it comes into contact)
Supplemental information	None.

3. Composition/Information on Ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Sodium dichloroisocyanurate		2893-78-9	80-100

Composition comments US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

4. First Aid Measures

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

Skin contact Wash skin thoroughly with water. Immediately call a POISON CENTER or doctor.

Eye contact Flush with water for 15 minutes. Immediately call a POISON CENTER or doctor.

Ingestion IF SWALLOWED - Drink a glassful of water. Immediately call a POISON CENTER or doctor.

Most important symptoms/effects, acute and delayed Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

General information Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Keep out of reach of children.

Call a poison control center or doctor immediately for further treatment advice. Have product container or label with you when calling a poison control center or doctor, or going for treatment. Clorox Information Line: 1-800-292-2200.

5. Fire Fighting Measures

Suitable extinguishing media Flood with water.

Unsuitable extinguishing media Do not use ABC fire extinguishers.
Dry chemical.

Specific hazards arising from the chemical Greatly increases the burning rate of combustible materials. Containers may explode when heated. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

Specific methods Cool containers exposed to flames with water until well after the fire is out.

General fire hazards NFPA Class 1 Oxidizer (An oxidizer that does not moderately increase the burning rate of combustible materials with which it comes into contact)
Damp or wet material may generate nitrogen trichloride, an explosion hazard.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep away from clothing and other combustible materials. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Ventilate the contaminated area. Minimize dust generation and accumulation. Wear appropriate protective equipment and clothing during clean-up. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

7. Handling and Storage

Precautions for safe handling	Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from heat. Take any precaution to avoid mixing with combustibles. Keep away from clothing and other combustible materials. Do not breathe dust or mist. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only in well-ventilated areas. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Do not use or mix with other household chemicals such as toilet bowl cleaners, rust removers, acids or ammonia-containing products. Do not mix with small quantities of water to make a paste or slurry.
Conditions for safe storage, including any incompatibilities	Damp or wet material may generate nitrogen trichloride, an explosion hazard. Store locked up. Keep away from heat. Store in a cool, dry place out of direct sunlight. Do not store near combustible materials. Keep in a dry, cool and well-ventilated place. KEEP OUT OF REACH OF CHILDREN AND PETS.

8. Exposure Controls/Personal Protection

Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear protective eyewear (goggles, face shield, or safety glasses).
Skin protection	
Hand protection	Impervious gloves. Confirm with reputable supplier first.
Other	Wear chemical protective equipment that is specifically recommended by the manufacturer. Use of an impervious apron is recommended. It may provide little or no thermal protection. Wear fire/flame resistant/retardant clothing. As required by employer code.
Respiratory protection	Avoid breathing dust/fume/gas/mist/vapors/spray.
Thermal hazards	Not applicable.
General hygiene considerations	Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Avoid contact with the skin and the eyes. When using do not eat or drink.

9. Physical and Chemical Properties

Appearance	Powder.
Physical state	Solid.
Form	Solid.
Color	Not available.
Odor	Slight chlorine.
Odor threshold	Not available.
pH	6 - 7 @ 25 °C (1% solution)
Melting point/freezing point	Decomposes without melting / Not applicable
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	1.95 g/mL @ 25 °C
Partition coefficient (n-octanol/water)	Kow = 0
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not flammable
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not explosive

Explosive limit - upper (%)	Not explosive
Vapor pressure	<0.06 Pa @ 20°C
Vapor density	Not applicable
Relative density	1.95 g/mL @ 25 °C
Solubility(ies)	26.5 g/ 100 g @ 25 °C
Auto-ignition temperature	Not determined
Decomposition temperature	Decomposes at temperatures above 210 °C
Viscosity	Not applicable
Other information	
Bulk density	56 - 60 lbs/ft3 (loose)
Explosive limit	Not explosive
Explosive properties	Not explosive.
Molecular formula	C3N3O3Cl2Na.2H2O
Molecular weight	256
Oxidizing properties	May intensify fire; oxidizer.

10. Stability and Reactivity

Reactivity	Do not use or mix with other household chemicals such as toilet bowl cleaners, rust removers, acids or ammonia-containing products. Do not mix with small quantities of water to make a paste or slurry. Keep away from combustible material.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals. Contact with acids liberates toxic gas. Damp or wet material may generate nitrogen trichloride, an explosion hazard. Contact with water slowly liberates irritating and hazardous chlorine containing gases. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
Incompatible materials	Combustible material. Reducing agents.
Hazardous decomposition products	May include and are not limited to: Hydrogen chloride. Chlorine gas. Oxides of nitrogen. Cyanogen chloride. Oxides of carbon. Phosgene.

11. Toxicological Information

Information on likely routes of exposure

Inhalation	May cause respiratory tract irritation or chemical burns. Toxic if inhaled.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns. Harmful if swallowed. May cause stomach distress, nausea or vomiting.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity	Causes burns to eyes, skin and mucus membranes. Harmful if swallowed. Toxic if inhaled.

Components	**Species**	**Test Results**
Sodium dichloroisocyanurate (CAS 2893-78-9)		
Acute		
Dermal		
LD50	Rat	> 5000 mg/kg, ECHA
Inhalation		
LC50	Rat	0.3 - 1.2 mg/L, 4 Hours, ECHA
Oral		
LD50	Rat	1671 mg/kg, ECHA

Skin corrosion/irritation	Causes severe skin burns and eye damage.
Exposure minutes	Not available.
Erythema value	Not available.
Oedema value	Not available.

Serious eye damage/eye irritation	Causes serious eye damage.
Corneal opacity value	Not available.
Iris lesion value	Not available.
Conjunctival reddening value	Not available.
Conjunctival oedema value	Not available.
Recover days	Not available.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	Non-hazardous by OSHA criteria.
Carcinogenicity	Non-hazardous by OSHA criteria. See below.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity	Non-hazardous by OSHA criteria.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.
Further information	Not available.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components		Species	Test Results
Sodium dichloroisocyanurate (CAS 2893-78-9)			
Crustacea	EC50	Daphnia	0 mg/L, 48 Hours
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.29 mg/L, 96 hours

Persistence and degradability	Not available.
Bioaccumulative potential	Not available.
Mobility in soil	No data available.
Mobility in general	Not available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

General

Canada: TDG Proof of Classification: Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

TDG: UN2923, Corrosive Solid, Toxic, N.O.S (Sodium Dichloroisocyanurate), 8,6.1, III.

DOT: UN2923, Corrosive Solid, Toxic, N.O.S (Sodium Dichloroisocyanurate), 8,6.1, III.

IMDG: UN2923, Corrosive Solid, Toxic, N.O.S (Sodium Dichloroisocyanurate), 8,6.1, III, Marine Pollutant.

IATA: UN2923, Corrosive Solid, Toxic, N.O.S (Sodium Dichloroisocyanurate), 8,6.1, III.

Notes: Limited Quantity exemption can be applicable depending upon size variance.

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

DANGER
KEEP OUT OF REACH OF CHILDREN AND PETS.
CORROSIVE. HARMFUL IF SWALLOWED. Causes burns to eyes, skin and mucus membranes. Do not get in eyes or on skin. Use in well-ventilated areas.
Do not use or mix with other household chemicals such as toilet bowl cleaners, rust removers, acids or ammonia-containing products. Do not mix with small quantities of water to make a paste or slurry.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated.
Food and Drug Administration (FDA)	Not regulated.

US state regulations See below

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

Sodium dichloroisocyanurate (CAS 2893-78-9)

US. New Jersey Worker and Community Right-to-Know Act

Sodium dichloroisocyanurate (CAS 2893-78-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Sodium dichloroisocyanurate (CAS 2893-78-9)

US. Rhode Island RTK

Sodium dichloroisocyanurate (CAS 2893-78-9)

California Proposition 65

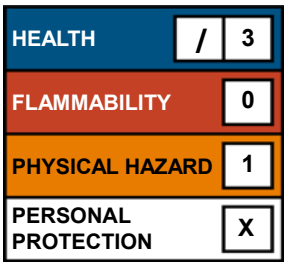
This product is not subject to warning labeling under the California Proposition 65 regulation.

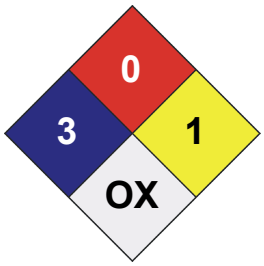
Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





Disclaimer

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Further information Not available.

Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

Reference Item: 514536.001

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