SAFETY DATA SHEET

Spotless™ Bleach

SECTION 1: IDENTIFICATION

Product identifier used on a label:	**Spotless™ Bleach**
Product code:	5436
HS Code:	340290
Recommended use of the chemical and restrictions on use:	Sanitary treatment of hard surfaces in public places, medical applications, laundry bleaching.
Chemical family:	Mixture.
Name, address and phone # of supplier:	Aqua Bond Inc. PO Box 63635 Toronto, ON, M1V 5K2 (416) 754-7211
24 Hr. Emergency phone #	**CANUTEC (613) 996-6666**

SECTION 2: HAZARDS IDENTIFICATION

Classification of the chemical: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:
Oxidizing Solids: Category 3 – May intensify fire; oxidizer.
Acute Toxicity – Oral: Category 4 – Harmful if swallowed.
Eye Damage/Irritation: Category 1 – Causes serious eye damage.

Label elements:



Signal word: Danger

Hazard statements:
H272: May intensify fire; oxidizer.
H302: Harmful if swallowed.
H318: Causes serious eye damage.

Precautionary statements:
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220: Keep away from clothing and other combustible materials.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P370+P378: In case of fire: Use water to extinguish. Do not use dry chemicals or foams. CO_2 or Halon may provide limited control.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330: Rinse mouth.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call POISON CENTER or doctor/physician.

	P501: Dispose of contents in accordance with applicable regional, national and local laws and regulations.
Other hazards:	Causes mild skin irritation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/ mixture: Mixture

Ingredient name	**CAS Number**	**Concentration (wt. %)**
Sodium Percarbonate	15630-89-4	40-60%
Tetraacetylethylenediamine	10543-57-4	40-60%

SECTION 4: FIRST-AID MEASURES

Description of first aid measures:

Ingestion	Harmful if swallowed. If swallowed, DO NOT induce vomiting, rinse mouth. Get medical attention immediately.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.
Eye contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.

Most important symptoms and effects, both acute and delayed:

Causes serious eye damage. Mild skin irritation. Repeated or prolonged exposure may cause dryness or cracking the skin. May cause conjunctivitis. May cause respiratory irritation. May affect respiration (dyspnea, respiratory stimulation). Respiratory depression. Nosebleeds. Sore throat. Irritating to mouth, throat and stomach. May cause abdominal pain, nausea, vomiting, diarrhea. May affect behavior/central nervous system. Ataxia. Somnolence.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

Protection of first-aiders: First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable	Water. CO_2 may be of no value in extinguishing fires involving oxidizers and may only provide limited control.
Unsuitable	Halons. Dry powder. Foam.
Flash point:	140 °C / 284 °F
Autoignition Temperature:	425 °C / 797 °F
Special hazards arising from the substance:	
Hazardous thermal decomposition products:	Carbon oxides; odium oxides; nitrogen oxides; oxygen.

Specific hazards:	Contains oxidizer. Keep away from combustible materials (wood, paper, oil, clothing, etc.) Contact with combustible or organic materials may cause fire. Will accelerate burning when involved in a fire. Container explosion may occur under fire conditions or when heated.
Special protective actions for fire-fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. DO NOT use combustible materials such as sawdust.
Special protective equipment for fire-fighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled material. Avoid dust formation. Remove all sources of ignition. Do not get water inside containers. Do not expose spill to water.
Environmental precautions:	Should not be released into environment. Prevent from reaching drains, sewer, or waterway.
Methods and materials for containment and cleaning up:	Wear protective eyeware, gloves, and clothing. Refer to Section 8. Always obey local regulations. Containerize for disposal. Refer to Section 13. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Keep in suitable closed containers for disposal.
Special spill response procedures:	In case of transportation accident, contact CHEMTREC at 1-800-424-9300.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:	Put on appropriate personal protective equipment. Avoid exposure – obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container.

Conditions for safe storage:	Store in accordance with local regulations. Store in a segregated and approved area. Store protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be resealed and kept upright. Do not store in unlabeled containers.
Incompatible materials:	Water. Reducing agents. Organic materials. Heavy metal salts. Powdered metals. Acids.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Exposure limits

Ingredient	**Exposure limits**
Sodium Percarbonate	Not available.
Tetraacetylethylenediamine	Not available.

Engineering controls:	Use with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Individual protection measures:	Eyes/face: Chemical splash goggles and face shield. Skin: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Respiratory: Wear appropriate respirator where spray mist occurs. Be sure to use a NIOSH approved dust and mist respirator or equivalent. Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder Solid.
Odor:	Odorless.
Odor threshold:	Not available.
pH:	Not available.
Melting point:	Not applicable.
Freezing point:	Not applicable.
Initial boiling point and boiling range:	Not applicable.
Flash point:	140 °C / 284 °F
Evaporation rate:	Not applicable.
Flammability:	Not available.

Upper and lower flammability limits:	Not available.
Vapour pressure:	Not applicable.
Vapour density:	Not applicable.
Relative density:	Not applicable.
Solubility:	Soluble in water.
Partition coefficient n-octanol/water:	Not applicable.
Auto-ignition temperature:	425 °C / 797 °F
Decomposition temperature:	>55 °C / >131 °F
Viscosity:	Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Contains oxidizer. Reacts with reducing agents, organic material, combustible materials, and powdered metals. Reactive with strong acids. Upon dissolution in water, produces peracidic acid, hydrogen peroxide and sodium carbonate.
Chemical stability:	Stable.
Possibility of hazardous reactions:	Contact with combustible materials (wood, paper, oil, clothing, etc.) may cause fire. May release toxic and/or corrosive fumes. Contact with powdered metals may cause fire or explosion. Can react vigorously on contact with reducing materials.
Conditions to avoid:	Exposure to moisture. Exposure to water. Contact with combustible materials (wood, paper, oil, clothing, etc.). Heat, flames and sparks. Incompatible materials.
Incompatible materials:	Water. Reducing agents. Organic materials. Combustible materials. Heavy metal salts. Powdered metals. Acids.
Hazardous decomposition products:	Carbon monoxide. Carbon dioxide. Sodium oxides. Nitrogen oxides Hydrogen peroxide. Oxygen.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity data:	LD50 Rat Oral: 1034 mg/kg – Sodium percarbonate LD50 Mouse Oral: 2200 mg/kg – Sodium percarbonate LD50 Rat Oral: >2000 mg/kg – Tetraacetylethylendiamide
Information on the likely routes of exposure:	Skin and Eyes: yes Inhalation: yes Ingestion: yes
Potential health effects (acute):	Eye: Causes serious eye damage. May cause severe irritation, pain and corneal burns (possibly leading to blindness). The full extent of injury may not be immediately apparent. May cause conjunctivitis. Skin: Mild skin irritation. Repeated or prolonged exposure may cause dryness or cracking the skin. Inhalation: May cause respiratory irritation. May affect respiration (dyspnea, respiratory stimulation). Respiratory depression. Nosebleeds. Sore throat.

	Ingestion: Harmful if swallowed. Irritating to mouth, throat and stomach. May cause abdominal pain, nausea, vomiting, diarrhea.
Delayed and immediate effects, chronic effects from short and long term exposure:	None known.
Potential chronic health effects:	Prolonged or repeated ingestion may affect behavior/central nervous system. Prolonged or repeated inhalation may affect respiration.
Carcinogenicity:	Not listed as a carcinogen.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.
Sensitization:	No known significant effects or critical hazards.
Toxicological effects:	No known significant effects or critical hazards.
Acute toxicity:	No known significant effects or critical hazards.
Irritation/corrosion:	Causes serious eye damage.

Specific target organ toxicity single exposure: Not classified.
Specific target organ toxicity repeated exposure: Not classified.
Aspiration hazard: Not classified.

SECTION 12 ECOLOGICAL INFORMATION

Toxicity (15630-89-4):	Freshwater Fish: LC50 Pimephales promelas: 70.7 mg/L/96 hr static Water Flea: EC50 Daphnia pulex: 4.9 mg/L/48 hr
Toxicity (10543-57-4):	Freshwater Fish: LC50 Brachydanio rerio: >500 mg/L/96 hr static Water Flea: EC50 Daphnia magna: >800 mg/L/48 hr

Persistence and degradability: Not available.
Bioaccumulative potential: Not available.
Mobility in soil: Will likely be mobile in the environment due to water solubility.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods: The generation of waste should be avoided or minimized wherever possible.
Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid

dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

	TDG
UN Number:	UN1479
UN proper shipping name:	OXIDIZING SOLID, N.O.S. (Sodium Carbonate Peroxyhydrate Mixture)
Transport hazard class:	5.1
Packing group:	III
Environmental hazard:	No data available.
Special precautions for user:	**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident.

SECTION 15: REGULATORY INFORMATION

United States	
Toxic Substances Control Act (TSCA)	All components are listed.
Superfund Amendments and Reauthorization Acts	No.
Canada	
Canadian Domestic Substances List (DSL):	All components are listed.

SECTION 16: OTHER INFORMATION

Revision date: November 22, 2019

UN = United Nations

Disclaimer

While the information and recommendations set forth are believed to be accurate as of data hereof, Aqua Bond Inc., makes no warranty with respect thereto and disclaims all liability from reliance thereon.