



SDS for: San E Clean

1. Identification

Product Name: San e Clean
Synonyms: Bleach
CAS Number: Mixture
Product Use: Cleaning, or any use where bleach may be acceptable
Manufacturer: Solvit Inc.
Address: 7001 Raywood Rd. Madison WI, 53713
Phone: (608) 222-8624
Emergency Response Number: John Kelly 608-695-4637

2. Hazards Identification

GHS Classification:

Health	Environmental	Physical
Skin corrosion - Category 1B H314 Acute toxicity-oral - category 4 H302 Acute toxicity-inhalation - Category 4 H332	Hazardous to the aquatic environment-acute hazard - Category 1 H400	May be corrosive to metals - Category 1 H290 Oxidizing liquid - Category 3 H272

GHS Label:

Symbols: Corrosion, Environment, Flame over circle

<u>Hazard Statements</u>	<u>Precautionary Statements</u>
Danger! Causes severe skin burns and eye damage Very toxic to aquatic life with long lasting effects Warning! May be corrosive to metals Harmful if inhaled Harmful if swallowed Very toxic to aquatic life	Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Use outdoors or in a well ventilated area. Avoid release to the environment. Keep only in original container. Keep away from heat.

	<p>Keep/store away from clothing/combustible materials.</p> <p>Take any precaution to avoid mixing with combustibles.</p> <p>In case of fire: Use water spray, dry sand, dry chemical or alcohol-resistant foam to extinguish. Absorb spillage to prevent material damage.</p> <p>IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>IF ON SKIN (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>Immerse in cool water/wrap in wet bandages Wash contaminated clothing before reuse.</p> <p>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor if you feel unwell.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present, and easy to do. Continue rinsing.</p> <p>Do not eat, drink or smoke when using this product.</p> <p>Store locked up.</p> <p>Store in corrosive resistant plastic container.</p> <p>Dispose of contents/container according to local/state/federal regulations.</p>
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3. Composition/Information on ingredients

Component	CAS Number	Weight%
Sodium Hypochlorite	7681-52-9	8.5

4. First Aid Measures

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes while holding eye lids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and wash thoroughly before reuse. Get medical attention immediately. Do not apply oils or ointments unless ordered by a physician.

Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration respiration, preferably mouth to mouth. **GET MEDICAL ATTENTION IMMEDIATLEY.**

Ingestion: If fully conscious, drink a quart of water. **DO NOT** induce vomiting. **CALL A PHYSICIAN IMMEDIATLEY.** If unconscious or in convulsions, take immediately to a hospital or a physician. **NEVER** induce vomiting or give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Note to Physicians: Do not administer acid antidotes or Sodium Bicarbonate following overexposure. An ounce of 1% Sodium Thiosulfate or milk of magnesia may be helpful.

5. Fire Fighting Measures

Extinguishing Media: For fires in area, use appropriate media, such as Water spray, Dry Chemical, Carbon Dioxide, or Alcohol Foam.

Fire Fighting Methods: Evacuate the area of unprotected personnel. Wear protective clothing including NIOSH approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition by-products. Use water spray to cool fire-exposed containers and disperse vapors.

Fire and Explosion Hazards: May generate potentially explosive oxygen.

Hazardous Combustion Products: Chlorine-containing gasses.

6. Accidental Release Measures

Spill Clean Up Procedures: **CORROSIVE MATERIAL.** Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment regulations found in section 8. Never exceed any occupational exposure limits. Contain spill, place into drums for proper disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

7. Handling and Storage

Handling: Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mist or dust. Do not eat, drink or smoke in work area. Wash thoroughly after handling. Empty containers retain product residue

(vapor, dust or liquid) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity or other source of ignition. They may explode or cause injury or death.

Storage: CORROSIVE MATERIAL. Store in a cool, well ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Relieve pressure in containers weekly. Do not freeze. Avoid temperatures greater than 70 Deg. F. Product degrades more rapidly with increasing temperature.

8. Exposure Controls/Personal Protection

OSHA Exposure Guidelines:

<u>Component</u>	<u>Limits</u>
No components found	

ACGIH Exposure Guidelines:

<u>Components</u>	<u>Limits</u>
No components found	

Note: Exposure limit for chlorine: 1 ppm ceiling; 3 mg/m³ ceiling (OSHA); .5 ppm TWA; 1 ppm STEL (ACGIH)

Engineering Controls: Local exhaust ventilation, process enclosures or other engineering controls are required when handling or using this product to avoid overexposure. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

Eye/Face Protection: Wear chemical safety gloves and a full face shield while handling this product. Do not wear contact lenses.

Skin Protection: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: rubber (latex), polyvinyl chloride or Neoprene.

Respiratory Protection: If vapors or mists are present, wear: NIOSH-approved respirator or breathing apparatus. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.

Other Protective Equipment: Eye-wash station, safety shower, rubber apron, safety shoes and protective clothing.

General Hygiene Condition: Wash with soap and water before meal times and at the end of each work shift. Good Hygiene practices require gross amounts of any chemical to be removed from skin as soon as practical, especially before eating or smoking.

9. Physical and Chemical Properties

Physical State: Liquid
Color: Yellow
Odor: Chlorine Odor
Boiling Point (deg. F.): 240
Melting Point (deg. F.): N/A
Freezing Point (deg. F.): N/D
Vapor Pressure (mm Hg): N/D
Vapor Pressure (Air=1): >1
Solubility in water: Complete
pH: 11.4
Specific Gravity: 1.150 @67 deg.
% Volatile (wt. %): N/D
Evaporation Rate (nBuAc=1): N/D
VOC (wt. %): N/D
VOC (lbs./gal): N/D
Viscosity: Water Thin
Flash Point: N/A
Flash Point Method: N/A
Lower Explosion Limit: N/A
Upper Explosion Limit: N/A
Auto-ignition Temperature: N/A
Fire Point: N/A

10. Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to avoid: Avoid exposure to light. Avoid temperatures greater than 70 deg. F. Product degrades more rapidly with increasing temperatures.

Incompatible materials: Ammonia, organic Materials, Acids, Ammonia Salts, Aziridine, Methanol, Reducing Agents, Oxidizing Agents, Iron, Copper, Bisulfites, Phenyl acetonitrile, Cellulose, Ethyleneimine, Oxidizable Metals, Soaps.

Hazardous Decomposition Products: Chlorine-containing gases. Reacts with acids to release poisonous chlorine gas and Sodium Oxide.

Possibility of hazardous reactions: Hazardous polymerization will not occur under normal conditions.

11. Toxicological Information

<u>Component</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Sodium Hypochlorite	Rat: 8200 mg/kg	Rabbit: .10000 mg/kg	No Data

Other Information

Inhalation LC50: Rat 293 ppm/1 H (Chlorine)

12. Ecological Information

Ecotoxicological Information: DATA PROVIDED ARE FOR SODIUM HYPOCHLORITE

Fresh Water Fish Toxicity:

LC50 clupea harengus: .033-.097 mg/l/96 hr. flow through bioassay (pH: 8)
LC50 cymatogaster aggregate: .045-.098 mg/l/96 hr. flow through bioassay (pH: 8)
LC50 gasterosteus aculeatus: .141-.193 mg/l/96 hr. flow through bioassay (pH: 8)
LC50 oncorhynchus gorbuscha: .023-.052 mg/l/96 hr. flow through bioassay (pH: 8)
LC50 oncorhynchus kisutch: .026-.038 mg/l/96 hr. flow through bioassay (pH: 8)
LC50 oncorhynchus mykiss: .05-.771 mg/L/96 hr. flow through
LC50 oncorhynchus mykiss: >.03->.09 mg/L/96 hr. semi-static
LC50 oncorhynchus mykiss: .18-.22 mg/L/96 hr. static
LC50 parophrys vetulus: .044-.144 mg/l/96 hr. flow through bioassay (pH: 8)
LC50 pimephales promelas: .22-.62 mg/l/96 hr. flow through bioassay (pH: 7)
LC50 pimephales promelas: 4.5-7.6 mg/L/96 hr. static
LC50 lepomis macrochirus: .4-.8 mg/L/96 hr. static
LC50 lepomis macrochirus: .28-1 mg/L/96 hr. flow through

Invertebrate Toxicity:

EC50 ceriodaphnia sp: .006 mg/l/24 hr.
EC50 daphnia magna: .07-.7 mg/l/24 hr.
EC50 daphnia magna: 2.1 mg/l/96 hr.
EC50 gammarus fasciatus: 4 mg-l/96 hr.
EC50 nitcra spinipes: 40 mg/l/96 hr.
EC50 palaemonetes pugio: 52 mg/l/96 hr

Algae Toxicity:
ErC50 dunaliella sp: .6 mg/l/24 hr.
ErC50 dunaliella tertiolecta: .11 mg/l/24 hr.
ErC50 skeletonema costatum: .095 mg/l/24 hr.

Chemical fate information: BIODEGRADATION: This material is inorganic and not subject to biodegradation.
BIOCONCENTRATION: This material is not expected to bio-concentrate in organisms.

13. Disposal Considerations

Hazardous Waste Number: 009

Disposal Method: Dispose of in a permitted hazardous waste management facility following all local, state and federal regulations. If approved, flush to sewer with large quantities of water.

14. Transportation Information

DOT (Department of Transportation):

Identification Number: UN 1791
Proper Shipping Name: HYPOCHLORITE SOLUTION
Hazard Class: 8
Packaging Group: II
Label Required: CORROSIVE
Reportable Quantity: 100 lbs. (Sodium Hypochlorite)

15. Regulatory Information

TSCA Inventory Status: All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements.

SARA Title III Section 311/312 Category Hazards:

<u>Immediate</u>	<u>Delayed (Chronic)</u>	<u>Fire Hazard</u>	<u>Pressure Release</u>	<u>Reactive</u>
Yes	No	Yes	No	No

Regulated Components:

<u>Component</u>	<u>CAS No.</u>	<u>CERCLA-RQ</u>	<u>SARA-EHS</u>	<u>SARA-313</u>
Sodium Hypochlorite	7681-52-9	Yes	No	No

U.S.-HAP
No

WI-HAP
No

Prop-65
No

Prop 65: May contain the following trace components: No data available

NSF/ANSI Standard 60 Maximum use level: 84 mg/L

16. Other Information

Hazard Rating System:

Health: 3

Flammability: 0

Reactivity: 1

NFPA Rating System:

Health: 3

Flammability: 0

Reactivity: 1

Special Hazard: OX

SDS Abbreviations:

N/A = Not Applicable

N/D = Not Determined

HAP = Hazardous Air Pollutant

VOC = Volatile Organic Compound

C = Ceiling

N/E = Not established

SDS Prepared by: SK

Revision Date: 3/12/2015

Reason for Revision: To comply with the GHS

Disclaimer: The data in this SDS relates to the specific material indicated and does not relate to its use in combination with any other material or process. The data provided in this SDS is believed to be correct to the best of our knowledge.

Solvit Inc. makes no warranty of any kind, expressed or implied, concerning the safe use of this product in your process or in combination with other substances.

This information is provided solely for your consideration, investigation and verification.