



SAFETY DATA SHEET

According to 29CFR 1910.1200

Awning Cleaner

Section 1: Identification

GHS Product Name: Awning Cleaner

Product Code: AC16

Other means of identification: Not applicable (N/A)

Chemical Name/Synonyms: Sodium Hypochlorite

Product Type: Liquid

Optimal Solutions Products
145 City View Cir
Pickens, South Carolina 29672
864-557-3767
www.OSproduct.com
Emergency number: Chemtrec 1-800-424-9300

Section 2: Hazard(s) Identification

Hazard Classification:



SKIN CORROSION: Sub-category 1C
EYE DAMAGE: Category 1
ACUTE AQUATIC TOXICITY: Category 1

Signal Word(s):

Danger

Hazard Statements:

H301: Toxic if swallowed.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H333: May be harmful if inhaled.
H400: Very toxic to aquatic life.

Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use
P234: Keep in original container
P235: Keep Cool.
P260: Do not breathe dust or mists.
P262: Do not get in eyes, on skin, or on clothing.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product
P273: Avoid release to the environment
P280: Wear protective gloves/eye protection/face protection
P501: Dispose of the contents/containers according to the local, state and federal regulations.

Response Statements:

P301: IF SWALLOWED
P310: Immediately call a POISON CENTER or doctor.
P330: Rinse mouth.
P331: Do NOT induce vomiting.
P321: Specific treatment (see First Aid information on product label and/or Section 4 of the SDS)
P303: IF ON SKIN (or hair)
P361: Remove/Take off immediately all contaminated clothing.
P353: Rinse skin with water/shower.



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Section 2: Hazard(s) Identification Continued

P332: IF SKIN irritation occurs

P313: Get medical advice/attention

P304: IF INHALED

P340: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P341: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342: IF experiencing respiratory symptoms

P311: Call a POISON CENTER or doctor/physician.

P305: IF IN EYES

P351: Rinse cautiously with water for several minutes.

P338: Remove contact lenses, if present and easy to do. Continue rinsing.

P337: IF eye irritation persists

P313: Get medical advice/attention

P363: Wash Contaminated Clothing Before Reuse

P390: Absorb Spillage to Prevent Material Damage

P391: Collect Spillage

P321: Specific treatment (see First Aid information on product label and/or Section 4 of the SDS)

STORAGE STATEMENTS:

P401: Store in a secure manner. Keep container closed.

P403+235: Store in a well-ventilated place. Keep cool.

P406: Store in a corrosive resistant container with a resistant inner liner.

P405: Store locked up.

DISPOSAL STATEMENTS:

P501: Dispose of Contents/Container in Accordance with Local/State/Federal/International Regulations.

SUPPLEMENTAL LABEL ELEMENTS:

Avoid contact with eyes. May cause irritation to the eyes. In case of contact with eyes, rinse immediately with plenty of water. If irritation persists, get medical attention.

CARCINOGENICITY:

Not listed by OSHA, IARC, OR NTP

Section 3: Composition/ Information on Ingredients

Substance / Mixture:

Mixture

Chemical Name	Synonym	CAS#	Conc.
Sodium Hypochlorite		7681-52-9	9 %

Section 4: First-Aid Measures

After skin contact:

Wash with plenty of water. Remove contaminated clothing and shoes. Wash under a shower with soap and water for 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation or burn occurs get medical attention.

After eye contact:

Immediately flush eyes with plenty of water. If possible, remove contact lenses. Rinse for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.

After inhalation:

Remove from exposure and move to fresh air immediately and keep in a position comfortable for breathing. Give artificial respiration if necessary. Obtain medical attention if necessary.

After swallowing:

DO NOT INDUCE VOMITING. If person is conscious, give 2 or more glasses of water. Never give anything to an unconscious person. Consult a physician or medical facility with regards to inducing vomiting. DO NOT use baking soda or acidic antidotes. See a physician immediately.

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Section 5: Fire-Fighting Measures

Suitable extinguishing agents:	Not combustible, however, if material is involved in a fire: Use fine water spray, normal foam, carbon dioxide or dry chemical powder
Special protective equipment for firefighters:	Decomposes on heating emitting toxic fumes, including those of chlorine. Firefighters must wear self-contained breathing apparatus and suitable protective clothing if there is risk of exposure to products of decomposition.
Emergency action code:	2X
Specific hazards:	Non-combustible material

Section 6: Accidental Release Measures

Personal precautions:	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. Put on appropriate personal protective equipment.
Environmental protection:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air). Completely contain spilled material with dikes, sandbags, etc. and prevent runoff into the ground or surface waters or sewers. Flush spills with water to dilute bleach as much as possible. Flush residual neutralized waste to the drain with large amount of water. Avoid heat and contamination with acid. Do not use combustible materials such as sawdust to absorb hypochlorite.
Measures for cleaning/collecting:	
Small spill –	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a license waste disposal contractor.
Large spill –	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillage into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
Waste Disposal Method:	Check federal, state, and local codes.

Section 7: Handling and Storage

Precautions for safe handling:	Handle in accordance with good industrial hygiene and safety precautions. Avoid contact with skin, eyes, and clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Keep in original container. Do not reuse container. Use appropriate personal protective equipment (see Section 8).
Conditions for safe storage:	Store in accordance with local regulations. Store in segregated and approved area. Keep container closed and store at moderate temperature in a well-ventilated area, away from incompatible materials (see Section 10).

Section 8: Exposure Controls/Personal Protection





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Section 8: Exposure Controls/Personal Protection Continued

Exposure Guidelines

<u>Ingredient name</u>	<u>CAS #</u>	<u>ACGIH</u>	<u>OSHA</u>	<u>California</u>
Sodium Hypochlorite	7681-52-9	TLV (2 mg/m ³ for 15 minutes)	PEL (TWA) (2 mg/m ³ for 15 minutes)	

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local ventilation to keep airborne levels of vapor or mist to acceptable levels.

Personal Protection Equipment

Respiratory:	If a risk assessment indicates this is necessary, use a properly fitted, air-purifying or air fed respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands:	Chemical-resistant protective gloves should be always worn when handling chemical products
Eyes and Face:	Wear approved safety glasses or chemical splash goggles. Use a face shield when appropriate. Recommended: splash goggles
Skin:	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.
Work Hygiene Practices:	Avoid contact with skin, eyes, and clothing. Do not breathe vapor or mist. Do not ingest.
Other use Precautions:	Wear appropriate protective clothing to prevent skin exposure.
Personal protective equipment (Pictograms) :	



Section 9: Physical and Chemical Properties

Form:	Clear Yellow Liquid	Upper flammability or explosive limits:	N/A
Odor:	Surfactant (slight)	Lower flammability or explosive limits:	N/A
Odor Threshold:	N/A	Vapor pressure:	N/A
pH:	12.5 – 13.5	Vapor density:	N/A
Specific Gravity:	1.162	Partition coefficient: n-octanol/water:	N/A
Freeze Point:	15°F	Auto Ignition Temp:	N/A
Boiling point:	Decomposes	Decomposition temperature:	N/A
Flash point:	N/A	Viscosity:	N/A
Evaporation rate:	> 1	VOC (% wt.):	0.9
Flammability:	N/A	Percent Volatile:	98%
Solubility:	Complete	Other:	N/A

Section 10: Stability and Reactivity

Chemical stability:	Unstable. Stability decreases with concentration, heat, light exposure, and decreased in pH and contamination with heavy metals.
Possibility of hazardous polymerization:	Under normal conditions of storage and use, hazardous reactions will not occur.
Incompatible materials:	Avoid conditions with heavy metals, such as nickel, copper, cobalt, and iron; reducing agents, ether, ammonia, and acids as these materials would hasten decomposition.
Hazardous decomposition products:	Hypochlorous acid (HOCl), chlorine, hydrochloric acid. Other decomposition products, which depend upon pH, temperature and time, are sodium chloride, sodium chlorate and oxygen.
Storage:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.



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Section 11: Toxicological Information

Information on the likely routes of exposure: Dermal contact. Eye contact. Inhalation. Ingestion.

Eye contact: Contact can cause local irritation. High concentration may cause blindness.

Inhalation: Exposure to humans to 0.5 ppm for 8 hours and 1 ppm for 4 hours caused transient decrease in pulmonary capacity, as measured by pulmonary function tests.

Skin contact: Irritating effects increase with strength of solution and time exposure. Liquid contact can cause local irritation and burns. Sodium hypochlorite vapors can cause irritation, burning, and blisters.

Ingestion: Swallowing of sodium hypochlorite can cause burning and pain in lips, mouth, tongue, and stomach. Severe scarring of the throat can occur after swallowing.

Section 12: Ecological Information (non-mandatory)

Ecotoxicity:  Very toxic to plant and marine or aquatic life at high concentration

Toxicity in Fish LC50: 0.07-5.9 mg/L (ECOTOX: 48 hours, Fish)

Section 13: Disposal Considerations (non-mandatory)

WASTE DISPOSAL METHOD: Dispose of material in accordance with all federal, state, and local regulations. Reduce with chemicals listed as neutralizing chemicals. Keep on alkaline side and dilute with large quantities of water. Main end product is NaCl.

NEUTRALIZING CHEMICALS: Reducing agents such as bisulfites or ferrous salt solutions or urea for low bleach concentration. Heat will be produced.

GENERAL DISPOSAL CONSIDERATIONS: Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.

Section 14: Transport Information (non-mandatory)

PROPER SHIPPING NAME: CORROSIVE LIQUID, N.O.S. (Sodium Hypochlorite Solution)
CLEANING COMPOUND, LIQUID (Gallon - Limited Quantity)

UN/NA NUMBER: UN1791

HAZARD CLASS: 8

PACKING GROUP: III

EMERGENCY RESPONSE GUIDEBOOK: 154

PLACARD/LABELS REQUIRED: Corrosive

Section 15: Regulatory Information (non-mandatory)

OSHA HAZARDOUS CHEMICAL: N/A

SARA Section 302/304: No products were found.

SARA Section 311/312 Hazards: Immediate (X) Delayed (X) Fire () Reactive () Sudden release of pressure ()

SARA Section 313: N/A

Hazardous Air Pollutants: None

National Toxicology Program (NTP): N/A

Toxic Substances Control Act: (TSCA) All components of this product comply with the inventory requirements administered by the governing agency.

State Regulations:

Massachusetts: None of the components are listed.

New York: None of the components are listed.

New Jersey: None of the components are listed.

Pennsylvania: None of the components are listed.

California Prop 65: None of the components are listed.

Canada:

Canadian Lists: None of the components are listed.

Canada NPRI: All components are listed or exempted.

Canada Inventory: All components are listed or exempted.

Canadian PCP/DIN Number: N/A



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Section 15: Regulatory Information (non-mandatory) Continued

International Regulations:

International lists.

Australia inventory (AICS): All components are listed or exempted.
China inventory (IECSC): All components are listed or exempted.
Japan inventory: Not determined.
Korea inventory: All components are listed or exempted.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.
Philippines inventory (PICCS): All components are listed or exempted.
Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.

EPA Registration Number:

N/A

Clean Air Act Section 112:

Not listed

Section 16: Other Information

HMIS: Health = 3; Flammability = 0; Reactivity = 0; Personal Protection Equipment = D

The information herein has been from sources believed to be accurate, reliable and up to date to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources and do not make any warranties nor assume any liability from its use or misuse.

SDS date of preparation/update: 01/01/2025