

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Pac-Chlor 12.5% **EPA Reg. # 64864-55**
Product Code: 10104
Product Use: For post harvest sanitization of organisms causing decay of fruits and vegetables.
Supplier: Pace International, LLC
Address: 5661 Branch Road, Wapato, WA 98951
Phone Number: 800-936-6750 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)
Medical Emergency Phone Number: 888-271-4649 (PROSAR)
Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)

2. HAZARDS IDENTIFICATION

Classification:
 Physical, CORROSIVE, Category 1
 Skin irritation, Category 1
 Eye irritation, Category 1
 Aquatic Long Term, Category 1

Hazard Symbols:



Hazard Statements:
 DANGER
 H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention Statements:
 P234 Keep only in original container.
 P260 Do not breathe fume, mist, vapours, or spray.
 P264 Wash hands thoroughly after handling.
 P280 Wear protective clothing, chemical resistant gloves, and safety glasses.
 P273 Avoid release to the environment.

Response Statements:

P390 Absorb spillage to prevent material damage.
 P301/330/331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.
 P303/361/353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P363 Wash contaminated clothing before reuse.
 P304/340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P310 Immediately call a POISON CENTER or doctor for medical advice.
 P321 Specific treatments see Section 4 First Aid Measures.
 P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor for medical advice.
 P391 Collect spillage.
Storage Statements:
 P406 Store in corrosive resistant container with a resistant inner liner.
 P405 Store locked up.

Disposal Statements:

P501 Dispose of contents/container should be made in accordance with applicable regional, national and local laws and regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	Concentration (w/w %)
Sodium Hypochlorite	7681-52-9	12.5 %
Proprietary ingredients		Balance

4. FIRST AID MEASURES

General Advice: Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.
If on Skin: Take off contaminated clothing. Wash skin with plenty of soap and water. If redness, burning, or irritation persists, get medical advice/attention. Wash contaminated clothing before reuse.
If in Eyes: Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical advice/attention.



- If Swallowed:** Call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.

5. FIRE FIGHTING MEASURES

- Extinguishing Media:** Not flammable. Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool.
- Special Exposure Hazards:** None known.
- Special Protective Equipment / Procedures for Firefighters:** Wear self-contained breathing equipment.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Wear protective clothing, chemical resistant gloves, and safety glasses.
- Environmental Precautions:** In case of spill isolate area and deny entry to unnecessary personnel. Do not allow product to enter sewers, lakes, streams or other bodies of water.
- Containment / Clean-Up Methods:** Stop spill at the source. Construct temporary dikes of dirt, sand, or other appropriate material to prevent spreading of the material. Neutralize with alkaline material then absorb with an inert material such as sand or vermiculite and place in an appropriate container for disposal.

7. HANDLING & STORAGE

- Handling:** Avoid contact with skin and eyes. Good standards of hygiene should be maintained at all times. Smoking, eating, and drinking are prohibited in the work area. For personal protection wear protective clothing, chemical resistant gloves, and safety glasses.
- Storage:** Store in a cool, dry area at room temperature, and away from direct sunlight. Store in corrosive resistant container with a resistant inner liner. Keep container tightly closed when not in use. Keep out of reach of children and livestock. Store in locked location.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Occupational Exposure Limits:** Sodium Hypochlorite CAS# 7681-52-9
Not established,
As Chlorine exposure standards are:
1ppm as Cl₂ OSHA PEL, 3 ppm as Cl₂ OSHA STEL, 0.5 ppm as Cl₂ ACGIH TLV & TWA, 1ppm as Cl₂ ACGIH STEL
- Engineering Controls:** Local exhaust ventilation maybe necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces.
- Personal Protective Equipment :**
Clothing: Wear protective clothing and chemical resistant gloves when handling.
Eye Protection: Wear safety glasses. Eye fountain and washing facilities should be present at work area.
Respiratory Protection: Not normally required. A NIOSH-approved respirator with organic vapor filter may be used in misty environments without proper ventilation.



9. PHYSICAL & CHEMICAL PROPERTIES

- | | | | |
|-----------------------------------|----------------------------|---|-------------------|
| Physical state: | Liquid | | |
| Appearance: | Pale straw-colored liquid | Upper/Lower flammability limits: | Not available |
| Odor: | Chlorine odor | Vapor pressure: | 12.1 mmHg (20°C) |
| Odor threshold: | Not available | Vapor density: (air =1) | 2.61 |
| pH: | 11.0 – 12.0 | Specific Gravity: (H₂O = 1) | 1.2 @ 20°C (68°F) |
| Melting/Freezing point: | -10°F (-23.3°C) | Solubility: | soluble in water |
| Boiling point: | Decomposes @ 110°C (230°F) | Partition coefficient (n-octanol-water): | Not available |
| Flash point: | Not flammable | Auto-ignition temperature: | Not available |
| Evaporation rate: | Not available | Decomposition temperature: | Not available |
| Flammability (solid, gas): | Not applicable | Viscosity: | Not available |



10. STABILITY & REACTIVITY

Reactivity hazards:	None known
Chemical stability:	Stable at ambient conditions
Conditions to avoid:	Stability decreases with heat and light exposure.
Incompatible materials:	Acidic materials, ammonia, urea, oxidizable materials, metals such as copper, tin, nickel, aluminum and iron.
Hazardous decomposition products:	Chlorine gas. Rate of decomposition increases as temperature rises above 85°F (29°C).

11. TOXICOLOGICAL INFORMATION

Acute toxicity:	Acute Oral:	LD ₅₀ (estimate): > 5000 mg/kg	Based on Ingredients
	Acute Dermal:	LD ₅₀ (estimate): > 5000 mg/kg	Based on Ingredients
	Inhalation:	LC ₅₀ (estimate): > 20 mg/L	Based on Ingredients
Skin corrosion/irritation:	Causes severe skin burns.		
Eye damage/irritation:	Causes serious eye damage. Could cause corneal damage.		
Respiratory/Skin sensitization:	No evidence of sensitization.		
Germ cell mutagenicity:	Not available		
Carcinogenicity:	No carcinogenic effects are expected due to product being comprised of FDA-approved food-grade ingredients.		
Reproductive toxicity:	Occasional workplace exposure is not expected to present a hazard.		
Target organ effects:	No known target organ effects.		
Aspiration hazard:	Material does not present an aspiration hazard.		
Potential health effects:	CORROSIVE: May cause severe skin burns and eye damage.		

12. ECOLOGICAL INFORMATION

Toxicity:	LC ₅₀ (96-hr) fish: > 100 mg/L (estimate)	Based on Ingredients
Persistence/ degradability:	Not available	
Bioaccumulative potential:	Not available	
Mobility in soil:	Not available	
Other adverse effects:	Harmful to aquatic life.	

13. DISPOSAL CONSIDERATIONS

Disposal methods:	Recover or recycle if possible. Do not discharge into sewers, lakes, streams, or other bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent than regional or national requirements.
--------------------------	---

14. TRANSPORT INFORMATION

	<u>DOT</u>	<u>IMDG</u>	<u>IATA</u>
UN number:	UN 1791	Not applicable	Not applicable
Proper shipping name:	Hypochlorite Solutions	Not regulated	Not regulated
Hazard class(es):	8	Not applicable	Not applicable
Packing group:	III	Not applicable	Not applicable
Marine Pollutant:	Not applicable		
Special precautions:	None		

15. REGULATORY INFORMATION

FIFRA:	This product is registered with the U.S. EPA under registration number 64864-55.
SARA 313:	Contains no chemicals subject to SARA Title III Section 313 in quantities sufficient to trigger reporting requirements.
TSCA:	All components of this product are included or exempt from inclusion in EPA's Toxic Substances Control Act (TSCA) Chemical Substance Inventory.



WHMIS: This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

16. OTHER INFORMATION

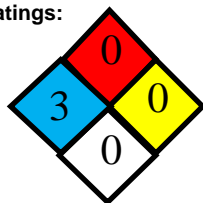
HMIS Ratings:

Health – 3

Flammability – 0

Reactivity – 0

NFPA Ratings:



The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Pace International, LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Pace International, LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Pace International, LLC) to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

SDS preparation date: July 23, 2015

Replaces MSDS dated: May 26, 2015

Changes since last New format to SDS

revision:

