

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: PacRite[®] Chlor Out
Product Code: 10150
Product Use: Neutralizes Water Treated with Sodium Hypochlorite
Product Restrictions: Agriculture Use Only
Manufacturer/Importer/Supplier/Distributor information
Manufacturer: 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 (PROPHARMA/PROSAR)
Transportation Emergency Phone Number: 800-424-9300 (CHEMTREC)
Supplier: See above.

2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (2012 OSHA Hazard Communication Standard)
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification:
Physical Hazard, Corrosive to metals, Category 1
Serious eye damage/eye irritation, Category 1
Environmental Hazards, Not classified
Hazard Symbols:



Signal Word:
DANGER

Hazard Statements:
H290 May be corrosive to metals.
H318 Causes serious eye damage.

Other Hazards:
Hazard(s) not otherwise classified (HNOC):

Precautionary Statements:
Prevention Statements:
P234 Keep only in original container.
P264 Wash hands thoroughly after handling.
P280 Wear impermeable clothing, safety goggles or face shield and chemical resistant gloves.
Response Statements:
P390 Absorb spillage to prevent material damage.
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.
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.
None known.
None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture	CAS #	Concentration %
Chemical name Sodium metabisulfite	7681-57-4	10 – 30 %*
Potassium hydroxide	1310-58-3	1 – 5 %*

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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

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. You may also contact PROPHARMA (PROSAR) 1-888-271-4649 for emergency medical treatment information.
Skin Contact: IF ON SKIN (or hair): Take off contaminated clothing. Wash skin with plenty of soap and water/shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.



Eye Contact:	IF IN EYES: Hold eye open and rinse cautiously and gently with water for 15 – 20 minutes. Remove contact lenses, after the first 5 minutes if present and easy to do. Continue rinsing eye. Immediately call a POISON CENTER/doctor for medical advice/attention.
Ingestion:	IF SWALLOWED: Rinse mouth, DO NOT induce vomiting. Immediately call a POISON CENTER/doctor for medical advice/attention.
Inhalation:	IF INHALED: remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor for medical advice. .
Most important Symptoms / effects, acute and delayed:	Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of any immediate medical attention and special treatment needed:	Treat patient symptomatically. Symptoms may be delayed.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical:	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters:	Firefighters must wear full protective clothing including self-contained breathing apparatus
Firefighting equipment/instructions:	Move containers from fire area if you can do so without risk.
Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards:	No unusual fire or explosion hazards noted.
Hazardous combustion products:	May include and are not limited to: Oxides of sulfur.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. 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 Clean-Up:	Prevent entry into waterways, sewer, basements or confined areas. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

7. HANDLING & STORAGE

Precautions for safe handling	DO NOT get in eyes, on skin or clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment (see Section 8 of the SDS). Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. When using, do not eat, drink or smoke.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in a cool, dry, well-ventilated place, away from direct sunlight. Avoid storing at temperatures below 40°F to keep product from freezing. Store in a corrosion resistant container with a resistant inner liner. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Occupational Exposure Limits
US. ACGIH Threshold Limit Values

Components	Type	Value
Potassium hydroxide (CAS# 1310-58-3)	Ceiling	2 mg/m ³
Sodium metabisulfite (CAS# 7681-57-4)	TWA	5mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Potassium hydroxide (CAS# 1310-58-3)	Ceiling	2 mg/m ³
Sodium metabisulfite (CAS# 7681-57-4)	TWA	5mg/m ³

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment
Eye/face protection:

Wear safety glasses with side shields, goggles or face shield. Eye wash station and washing facilities should be available.

Skin protection
Hand protection:

Impervious gloves. Confirm with reputable supplier first.

Other:

Wear appropriate chemical resistant clothing. As required by employer code.

Respiratory protection:

Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134)

Thermal hazards:

Not applicable.

General hygiene considerations:

Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability limits:	Not available
Appearance / Color:	Clear, colorless	Vapor pressure:	Not available
Odor:	Mild	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H₂O = 1)	1.2
pH:	6.1	Solubility:	Miscible in water
Melting/Freezing point:	Not available	Partition coefficient (n-octanol-water):	Not available
Pour Point:	Not available	Auto-ignition temperature:	Not available
Initial boiling point and boiling range:	Not available	Decomposition temperature:	Not available
Flash point:	Not flammable	Viscosity:	Not available
Evaporation rate:	Not available	Explosive properties:	Not explosive.
Flammability (solid, gas):	Not applicable	Oxidizing properties:	Not oxidizing.

10. STABILITY & REACTIVITY

Reactivity hazards:	This product may react with strong oxidizing agents.
Possibility of Hazardous Reactions:	No dangerous reaction known under conditions of normal use.
Chemical stability:	Stable under recommended storage conditions.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources. Do not mix with other chemicals.
Incompatible materials:	Strong oxidizing agents. Corrosive to aluminum.
Hazardous decomposition products:	May include and are not limited to: Oxides of sulfur.

11. TOXICOLOGICAL INFORMATION

Routes of exposure:	Eye, Skin contact, Inhalation, Ingestion.
Information on likely routes of exposure	
Ingestion	May cause stomach distress, nausea or vomiting.
Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.



Skin contact	Not expected to be a primary skin irritant.
Eye contact	Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics:	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	
Components	Species
Potassium hydroxide (CAS# 1310-58-3)	
Acute	
<i>Dermal</i>	
LD50	Not available
<i>Inhalation</i>	
LC50	Not available
<i>Oral</i>	
LD50	Rat
Sodium metabisulfite (CAS# 7681-57-4)	
Acute	
<i>Dermal</i>	
LD50	Rat
<i>Inhalation</i>	
LC50	Rat
<i>Oral</i>	
LD50	Rat
Skin corrosion/irritation:	No adverse effects due to skin contact are expected.
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 sensitization:	Not a respiratory sensitizer.
Skin sensitization:	This product is not expected to cause skin sensitization.
Mutagenicity:	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic
	See below
Carcinogenicity:	
IARC Monographs. Overall Evaluation of Carcinogenicity:	
Sodium metabisulfite (CAS# 7681-57-4)	Volume 54 – 3 Not classifiable as to carcinogenicity to humans.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052):	
	Not listed.
Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.
Teratogenicity:	Not available.
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.

12. ECOLOGICAL INFORMATION

Ecotoxicity	This product has been tested.		
	Pimephales promelas: 96-Hour LC50 = 2789 mg/L		
	Daphnia magna: 48-Hour LC50 and EC50 = 3467 mg/L		
Ecotoxicological data			
Components	Species		Test Results
Potassium hydroxide (CAS# 1310-58-3)			
Aquatic			
Fish	LC50	Western mosquitofish (<i>Gambusia affinis</i>)	80 mg/L, 96 hours
Sodium metabisulfite (CAS# 7681-57-4)			
Algae	IC50	Algae	48 mg/L, 72 hours
Persistence/ degradability:	No data is available on the degradability of any ingredients in the mixture.		
Bioaccumulative potential	No data 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: This product, in its original form and concentration, would not designate as a US federal hazardous waste when disposed.

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

Transport of Dangerous Goods (TDG) Proof of Classification Classification method: Classified according to Part 2, sections 2.1-2.8 of the Regulations for the transport of dangerous goods. If applicable, the technical name and product classification will appear below.

General DOT: DOT-49 CFR 173.154 (d)(1) – Metal exemption

U.S. Department of Transportation (DOT)
Not regulated as dangerous goods.

15. REGULATORY INFORMATION

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Potassium hydroxide (CAS# 1310-58-3) Listed.

US EPCRA Section 304 Extremely Haz. Subs. & CERCLA Haz. Subs.: Section 304 EHS reportable quantity
Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical Yes

Classified hazard Corrosive to metal

Categories Serious eye damage / 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.

Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)

Hazardous substance

US STATE REGULATIONS

US - California Hazardous Substances (Director's): Listed substance

Potassium hydroxide (CAS# 1310-58-3) Listed

Sodium metabisulfite (CAS# 7681-57-4) Listed

US - Illinois Chemical Safety Act: Listed substance

Potassium hydroxide (CAS# 1310-58-3)

US - Louisiana Spill Reporting: Listed substance

Potassium hydroxide (CAS# 1310-58-3) Listed

US - Minnesota Haz Subs: Listed substance

Potassium hydroxide (CAS# 1310-58-3) Listed

Sodium metabisulfite (CAS# 7681-57-4) Listed



US - Texas Effects Screening Levels: Listed substance

Potassium hydroxide (CAS# 1310-58-3) Listed
Sodium metabisulfite (CAS# 7681-57-4) Listed

US. Massachusetts RTK - Substance List

Potassium hydroxide (CAS# 1310-58-3)
Sodium metabisulfite (CAS# 7681-57-4)

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

Potassium hydroxide (CAS# 1310-58-3)
Sodium metabisulfite (CAS# 7681-57-4)

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

Potassium hydroxide (CAS# 1310-58-3)
Sodium metabisulfite (CAS# 7681-57-4)

US. Rhode Island RTK

Potassium hydroxide (CAS# 1310-58-3)
Sodium metabisulfite (CAS# 7681-57-4)

US. California Proposition 65
Not listed.

Inventory status

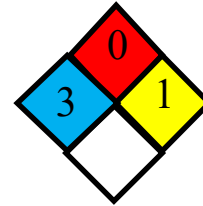
Country(s) or region	Inventory name	On inventory (yes/no) *
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	1
PERSONAL PROTECTION	X



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, 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, 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. 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) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employers, employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information are set forth on the labeling and the SDS.

SDS preparation date: April 27, 2021 **Replaces MSDS dated:** August 4, 2020
Changes since last revision: Several changes made through out SDS **Version:** 3

