

# HORTI-KLOR®

## 1. Product & Company Identification

Product Name: HORTI-KLOR  
Other means of identification: HORTI-KLOR

**Recommended use of the chemical and restrictions on use**  
Recommended Use: High Foaming Alkaline Detergent  
Uses advised against: Use only as stated on label.

### Safety Data Sheet Supplier

Pace 49 Inc.  
#142 - 766 Cliveden Place  
Delta, B.C., V3M 6C7, Canada  
Phone: (800) 799-6211 Website: pace49.com

### EMERGENCY TELEPHONE NUMBER

24 Hour Emergency Phone Number (800) 228-5635 x059

## 2. Hazards Identification



Classification	Hazard Category
Corrosive to Metals	Category 1
Skin corrosion/ irritation	Category 1
Eye damage/ irritation	Category 1
Specific target organ toxicity - repeated exposure	Category 2

### Signal Word:

Danger

### Hazard statements:

- ✦ H290 May be corrosive to metals.
- ✦ H314 Causes severe skin burns and eye damage.
- ✦ H373 May cause damage to respiratory system and spleen through prolonged or repeated exposure.

### Precautionary Statements - Prevention

- ✦ P234 Keep only in original packaging.
- ✦ P260 Do not breathe dusts or mists.
- ✦ P264 Wash hands and any affected area thoroughly after handling.
- ✦ P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Precautionary Statements - Response

- ✦ P390 Absorb spillage to prevent material-damage.
- ✦ P302 + P361 + P354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
- ✦ P363 Wash contaminated clothing before reuse.
- ✦ P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- ✦ P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- ✦ P301 + P304 + P302 + P316 IF SWALLOWED, INHALED OR ON SKIN: Get emergency medical help immediately.
- ✦ P305 + P354 + P338 + P317 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.
- ✦ P319 Get medical help if you feel unwell.

### Precautionary Statements - Storage

- ✦ P405 Store locked up.

### Precautionary Statements - Disposal

- ✦ P501 Dispose of contents/container to an approved waste disposal plant.

## 3. Composition/Information on Ingredients

Chemical Name	CAS No.	Weight %
Sodium hydroxide	1310-73-2	5-10
Sodium dodecylbenzene sulfonate	25155-30-0	5-10
Lauramine oxide	1643-20-5	1-5
Tetrasodium ethylene-diaminetetraacetate	1964-02-08	1-5
.beta.-alanine, N-(2-carboxyethyl)-N-[3-(decyloxy)propyl]-, monosodium salt	64972-19-6	1-5
Sodium xylenesulfonate	1300-72-7	1-5
Sodium chlorite	7758-19-2	1-5

## 4. First Aid Measures

GENERAL ADVICE: If symptoms persist, call a physician.

SKIN CONTACT: Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

INHALATION: Remove to fresh air. If symptoms persist, call a physician. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. Move to fresh air in case of accidental inhalation of vapors or decomposition products.

INGESTION: Immediate medical attention is not required. Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

SELF-PROTECTION OF THE FIRST AIDER: Use personal protective equipment as required.

### Most important symptoms and effects, both acute and delayed

SYMPTOMS: Any additional important symptoms and effects are described in Section 11: Toxicology Information.

### Indication of any immediate medical attention and special treatment needed

NOTE TO PHYSICIANS: Treat symptomatically.

## 5. Fire-Fighting Measures

SUITABLE EXTINGUISHING MEDIA: Use dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray (fog). Alcohol resistant foam.

UNSUITABLE EXTINGUISHING MEDIA: Do not use a solid water stream as it may scatter and spread fire.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Keep product and empty container away from heat and sources of ignition. Risk of ignition.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: As in any fire, wear self-contained

breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

UNUSUAL FIRE/EXPLOSION HAZARDS: Contact with reactive metals may produce flammable/explosive hydrogen gas. Explosive and toxic chlorine dioxide gas will be generated on contact with acids or chlorine.

HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine. Oxides of sodium.

## 6. Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

PERSONAL PRECAUTIONS: Use personal protective equipment as required. Avoid contact with eyes and skin. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges.

### Environmental precautions

ENVIRONMENTAL PRECAUTIONS: Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### Methods and material for containment and cleaning up

METHODS FOR CONTAINMENT: Prevent further leakage or spillage if safe to do so.

METHODS FOR CLEANING UP: Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains. Dam up. Take precautionary measures against static discharges.

## 7. Handling & Storage

### Precautions for safe handling

Use good industrial hygiene. Do not get in eyes, on skin or on clothing. Avoid breathing dust. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Keep out of reach of children. Store at temperatures below 30 °C and above 5 °C. Do not store in metal containers. Adding this product to water will result in exothermic reaction, where heat will be released. Add this product to water slowly with mixing, do not add water to this product.

## 8. Exposure Controls/Personal Protection

Type of Listing	Exposure Limit
OSHA PEL	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>
ACGIH	TLV: 2 mg/m <sup>3</sup>
NIOSH	(Immediately Dangerous to Life or Death) IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>

OTHER INFORMATION: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls  
ENGINEERING CONTROLS: Showers, Eyewash stations & Ventilation systems

Individual protection measures, such as personal protective equipment  
EYE/FACE PROTECTION: Tight sealing safety goggles. Face protection shield.

SKIN AND BODY PROTECTION: No special technical protective measures are necessary.

RESPIRATORY PROTECTION: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

GENERAL HYGIENE: When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

## 9. Physical & Chemical Properties

Properties	Values
Physical State	Liquid
Color	Clear, colourless to pale yellow
Odor	Mild odour. No added fragrance.
Odor threshold	No information available
pH	>13
Specific gravity	1.12 @ 20 °C
Viscosity	Thin like water
Melting point/ freezing point	No information available
Flash point	>93.3 °C Closed Cup
Boiling point / boiling range	100 °C approximate
Evaporation rate	No information available
Flammability	Not flammable, not combustible.
Upper flammability limit in air	No information available
Lower flammability limit in air	No information available
Vapor pressure	No information available
Vapor density	No information available
Water solubility	Soluble in water
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
VOC content (%)	No information available

## 10. Stability & Reactivity

REACTIVITY: No data available

STABILITY: Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: None under normal processing.

CONDITIONS TO AVOID: Temperatures above 30 °C and below 5 °C. Direct sunlight.

INCOMPATIBLE MATERIALS: STRONG ACIDS, OXIDIZING AGENTS, REDUCING AGENTS. METALS.

HAZARDOUS DECOMPOSITION PRODUCTS: CHLORINE. OXIDES OF SODIUM.

## 11. Toxicological Information

### Acute Toxicity Estimates

Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
>2000 mg/kg	>7000 mg/kg	No data
7% of the mixture consists of ingredient(s) of unknown acute oral toxicity.	22% of the mixture consists of ingredient(s) of unknown acute dermal toxicity.	

### Information on likely routes of exposure

INHALATION: Might cause serious irritation to respiratory track.

EYE CONTACT: Corrosive to the eyes and may cause severe damage including blindness.

SKIN CONTACT: The product causes burns of eyes, skin and mucous membranes.

INGESTION: Causes burns. May cause irritation and nausea.

## Information on toxicological effects

SYMPTOMS: No Information available.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

CORROSIVITY: Causes burns. Extremely corrosive and destructive to tissue. Risk of serious damage to eyes.

SENSITIZATION: Data available indicates no potential risk.

GERM CELL MUTAGENICITY: Data available indicates no potential risk.

CARCINOGENICITY: Data available indicates no potential risk.

REPRODUCTIVE TOXICITY: Data available indicates no potential risk.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE: Data available indicates no potential risk.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE: May cause damage to spleen through prolonged or repeated exposure.

ASPIRATION HAZARD: Data available indicates no potential risk.

## 12. Ecological Information

### Ecotoxicity

7.78% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

PERSISTENCE AND DEGRADABILITY: Persistence.

BIOACCUMULATION: Not expected to be bioaccumulative.

## 13. Disposal Considerations

### Waste treatment methods

DISPOSAL OF WASTES: Disposal should be in accordance with applicable regional, national and local laws and regulations.

CONTAMINATED PACKAGING: Do not reuse container.

US EPA WASTE NUMBER: D002

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Sodium Hydroxide CAS# 1310-73-2	Toxic, Corrosive

## 14. Transport Information

Note: The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

### U.S. Department of Transportation (USDOT)

LAND TRANSPORT:

Inner packaging not over 1.0 L: LTD QTY (LTDY)

Hazard Class: 8

Packing Group: III

PROPER SHIPPING NAME:

UN1824 SODIUM HYDROXIDE SOLUTION, 8, II (HM-CS21)

AIR TRANSPORT: (IATA/ ICAO) 2X0.1L

Per Package: LTD QTY (LTDY)

For packages greater than 2x0.1L refer to IATA shipping guidelines and above hazard class information.

## 15. Regulatory Information

### International Inventories

TSCA: Complies DSL/NDSL: Complies

TSCA: United States Toxic Substances

Control Act Section 8(b) Inventory

DSL/NDSL: Canadian Domestic Substances

List/Non-Domestic Substances List

### US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Reactive Hazard	No
Sudden release of pressure hazard	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	Reportable Quantities	Toxic / Priority Pollutants	Hazardous Substances
Sodium Hydroxide CAS# 1310-73-2	1000 lbs	-	X
Sodium dodecylbenzene sulfonate CAS# 25155-30-0	1000 lbs	-	X

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	CERCLA/ SARA RQ	Reportable Quantity (RQ)
Sodium Hydroxide CAS# 1310-73-2	1000 lbs	-	RQ 1000 lb final RQ RQ 454 kg final RQ
Sodium dodecylbenzene sulfonate CAS# 25155-30-0	1000 lbs	-	RQ 1000 lb final RQ RQ 454 kg final RQ

### California Proposition 65

This product has been evaluated and does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical Name	NJ	MA	PA
Sodium Hydroxide CAS# 1310-73-2	X	X	X
Sodium dodecylbenzene sulfonate CAS# 25155-30-0	X	X	X
Sodium Chlorite CAS# 7758-19-2	X	X	X

## 16. Other Information

PREPARED BY: Regulatory Department, Manufacturing and Shipping Facility

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.