

## Safety Data Sheet (SDS)

OSHA Hazard Communication Standard 29 CFR 1910.1200. Prepared to GHS Rev.04

### Pac-Cide XT™ Disinfectant

#### Section 1. Product and Company Identification

**Product Identifier:** Pac-Cide XT™ Disinfectant**Recommended use:** Hard surface cleaner and disinfectant, professional use**Manufacturer/Supplier:** Pac-Dent, Inc.

670 Endeavor Circle

Brea, CA 92821

Phone: 909-839-0888

**Emergency telephone number:** (Chemical Spills, Leaks, Fire, Exposure or Accident only):

CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

#### Section 2. Hazard(s) Identification

**Classification**

This product contains a chemical or chemicals considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

**GHS Hazard Classification of the Substance or Mixture:**

Flammable Liquids Category 3

Eye Irritation Category 2B

**Label Elements:**

Danger!

**Precautionary Statements - Prevention**

Keep away from heat/sparks/open flames/hot surfaces - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ ventilating/ lighting/ equipment Use only non-sparking tools

Take precautionary measures against static discharge

Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions on this label)

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Fire**In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction.**Inhalation**

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or a doctor/physician.

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool.

**Precautionary Statements - Disposal**

Dispose of contents/container at an approved waste disposal plant.

**Hazards not otherwise classified (HNOC)**

Not applicable.

**Other information**

Prolonged or repeated contact may dry skin and cause irritation.

May cause slight eye irritation.

**Interactions with Other Chemicals**

No information available

**Section 3. Composition/Information on Ingredients**

Chemical Name	CAS-No	Weight %	Trade Secret
Water	7732-18-5	20-25	*
Ethanol	64-17-5	70-75	*
Chlorhexidine Gluconate	55-56-1	<0.5	*

\* The exact percentage (concentration) of composition has been withheld as a trade secret

**Section 4. First-Aid Measures****Inhalation:** Immediately remove victim to fresh air. Get immediate medical attention.**Skin Contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.**Eye Contact:** 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. Call a poison control center or doctor for treatment advice.**Ingestion:** If swallowed, get medical advice by calling a Poison Control Center or hospital emergency room. If advice is not available, take victim and product container to the nearest emergency treatment center or hospital. Do not attempt to give anything by mouth to an unconscious person.**Most important symptoms and effects, acute and delayed:** Causes mild to moderate eye irritation. Prolonged skin contact may cause irritation. Inhalation of concentrated vapors may cause dizziness and drowsiness. Ingestion may cause may cause gastrointestinal irritation, nausea, vomiting and diarrhea.**Indication of immediate medical attention and special treatment, if needed:** Treat symptomatically.**Section 5. Fire-Fighting Measures****Suitable (and Unsuitable) Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray or fog, alcohol-resistant foam, carbon dioxide or dry chemical. Cool fire exposed containers with water.

**Specific Hazards Arising from the Chemical**

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks).

**Explosion Data**Sensitivity to Mechanical Impact                      No  
Sensitivity to Static Discharge                              Yes**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.

**Section 6. Accidental Release Measures**

<b>Personal Precautions</b>	Avoid contact with eyes and clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. See section 8 for more information. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.
<b>Other Information</b>	Refer to protective measures listed in Sections 7 and 8. Ventilate the area.
<b>Environmental Precautions</b>	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways.
<b>Methods for Cleaning Up</b>	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**Section 7. Handling and Storage**

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes and clothing. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before reuse. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Storage</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.
<b>Incompatible Products</b>	DO NOT mix with Bleach or Peroxides.

**Section 8. Exposure Controls / Personal Protection**

**Exposure Guidelines** There is no exposure data pertaining to the Product. This section reflects exposure data pertaining to individual ingredients.

Chemical Name	Exposure Limit
Water	None Established
Ethanol	TWA: 200 ppm STEL ACGIH TLV: 400 ppm TWA OSHA PEL: 400 ppm

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits

<b>Appropriate Engineering Measures</b>	General ventilation should be adequate for normal use. For operations where the exposure limits may be exceeded, mechanical ventilation such as local exhaust may be needed to minimize exposure.
<b>Eye/Face Protection</b>	Tight sealing safety goggles.
<b>Skin and Body Protection</b>	Wear protective gloves/clothing, long sleeved clothing, and impervious gloves.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions. If irritation is experienced, ventilation and evacuation may be required.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Avoid contact with eyes and clothing.

## Section 9. Physical and Chemical Properties

<b>Appearance:</b>	Clear liquid, light green	<b>Odor:</b>	Alcohol
<b>Odor Threshold:</b>	Not applicable	<b>pH:</b>	8.0 – 10.0
<b>Melting/Freezing Point:</b>	-20°C	<b>Boiling Point/Range:</b>	87°C
<b>Flash Point:</b>	17°C (62.6°F)	<b>Evaporation Rate:</b>	Not available
<b>Flammability: (Solid, Gas)</b>	Not applicable	<b>Flammability Limits:</b>	LEL: 2% UEL: 12.7%
<b>Vapor Pressure:</b>	1.144 mPa.s @ 20°C (ethanol)	<b>Vapor Density:</b>	1.59 (ethanol)
<b>Relative Density:</b>	0.86	<b>Solubilities:</b>	Miscible with water
<b>Partition Coefficient: (N-Octanol/Water)</b>	Not available	<b>Autoignition Temperature:</b>	Not available
<b>Decomposition Temperature:</b>	Not available	<b>Viscosity:</b>	Not available

## Section 10. Stability and Reactivity

**Reactivity:** Not reactive at ambient temperatures.

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** When used in accordance with the directions. None under normal processing.

**Conditions to avoid:** Heat, sparks, flames and all other sources of ignition.

**Incompatible materials:** Strong oxidizing agents, acids and strong reducing agents.

**Hazardous Decomposition Products:** Thermal decomposition will produce carbon monoxide, carbon dioxide, nitrogen oxides, amines, chlorine and hydrogen chloride.

## Section 11. Toxicological Information

**Potential Health Effects:**

**Inhalation** May cause irritation of the nose, throat and upper respiratory tract. High vapor concentrations may produce nausea, vomiting, headache, dizziness, drowsiness, weakness, fatigue, narcosis and possible unconsciousness. Not acutely toxic in rats.

**Eye Contact** May cause eye irritation. Moderate irritant in an eye irritation study with rabbits. Effects reversed in 7 days.

**Skin Contact** Prolonged or repeated exposure may cause mild irritation. No signs of toxicity or irritation were observed in a dermal toxicity study in rabbits. Non-irritating in a primary irritation study with rabbits. Negative in a skin sensitization study with guinea pigs.

**Ingestion** Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Not acutely toxic in rats.

**Chronic Hazards:** None known.

**Medical Conditions Aggravated By Exposure:** None currently known.

**Carcinogen:** None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.

**Acute Toxicity Values:** Pac-Cide XT: Acute Dermal LD50 >5000 mg/kg; Acute Inhalation rat LC50: 2.3 mg/L; Not found to be a dermal sensitizer: Acute Oral LD50 >5000 mg/kg; Ocular Irritation 0.0 after 7 Days.  
Grain derived Ethanol USP - All Ingredients Food or Pharma Grade - Free of Nonyl Phenyl Ethoxylates.

## Section 12: Ecological Information

This product is classified as Acute Aquatic Toxicity Category 3 based on the GHS criteria for aquatic toxicity. Harmful to aquatic life.

**Toxicity:** No toxicity data available for product.

**Ethanol:** LC50 rainbow trout 13000 mg/L/96 hr; LC50 daphnia magna 9268-14221 mg/L/48 hr; EC50 Chlorella pyrenoidosa (Green algae; growth inhibition) 9310 mg/L/48 hr

**Persistence and degradability:** Ethanol is readily biodegradable in screening tests.

**Bioaccumulative Potential:** Ethanol has an estimated BCF of 3 suggesting that the potential for bioaccumulation is low.

**Mobility in Soil:** Ethanol is expected to have very high mobility in soil.

**Other Adverse Effects:** None known.

## Section 13. Disposal Considerations

**Waste Disposal Methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. If recycling is not available, discard in accordance with hospital policy.

## Section 14. Transport Information

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	None	Not Regulated per alcohol exception (49CFR 173.150 (e))	None	None	None
EU ADR/RID	UN1987	Alcohols, n.o.s. (ethanol)	3	III	None
IMDG	UN1987	Alcohols, n.o.s. (ethanol)	3	III	None
IATA/ICAO	UN1987	Alcohols, n.o.s. (ethanol)	3	III	None

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

**Special precautions:** None identified.

## Section 15. Regulatory Information

**U.S. Federal Regulations**

**EPA SARA 311/312 Hazard Classification:** Refer to Section 2 for OSHA Hazard Classification.

**Protection of Stratospheric Ozone:** This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

**CERCLA SECTION 103:** This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**US EPA Registered Pesticide:** This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information

required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**CAUTION!**

Combustible. Do not use or store near heat or open flame.

Keep out of reach of children.

**International Inventories**

**US EPA TSCA Inventory:** All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

**Canadian Environmental Protection Act:** All of the components in this product are listed on the Domestic Substances List (DSL) or exempt.

**Australia:** All of the components in this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempt.

**China:** All of the components in this product are listed on the Inventory of Existing Chemical Substances in China (IECSC) or exempt.

**European Union:** All the components in this product are listed on the EINECS inventory or exempt.

**Japan:** All of the components in this product are listed on the Japanese Existing and New Chemical Substances (ENCS) inventory or exempt.

**Korea:** All of the components in this product are listed on the Korean Existing Chemicals List (KECL) or exempt.

**Philippines:** All of the components of this product are listed on the Philippines Inventory of Chemicals and Chemical Substances (PICCS) or exempt.

**Section 16. Other Information**

**Abbreviations and Acronyms:** None.

**Other information not contained elsewhere:** None.

**General Disclaimer**

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**Approved and Updated by Pac-Dent Inc. Disclaimer:**

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**End of Safety Data Sheet**