

# Material Safety Data Sheet

## EXPEL Products, Inc.

### MSDS

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### Section 1: Identification

8/08/01

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**Product:** EXPEL Odor Neutralizer/Sanitizer

**Manufacturer / Distributor:** EXPEL Products, Inc.  
1707 Susan Drive  
Arlington, TX. 76010

**Phone Numbers:**  
24 hour Emergency (800) 535-5053  
Information (817) 695-1692 Mon. - Fri. 10am - 5pm

**Chemical Family** Aqueous Oxidant

<b><u>Hazard Rating</u></b>	<b><u>Expel Rating</u></b>
4 = Extreme	Fire 0
3 = High	Toxicity 0
2 = Moderate	Reactivity 0
1 = Slight	Special 0
0 = Insignificant	Health & Safety 0

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### Section 2: Hazardous Ingredients

<b><u>Chemical Names</u></b>	<b><u>%</u></b>	<b><u>Exposure Limits</u></b>
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No active ingredients are present at concentrations greater than 1% by weight. At these concentrations none of the ingredients identified in this formulation are known to pose any hazard to human health. The Liquid has a very mild fresh odor. It is a water-based system with boiling and freezing points near those of water. At the concentrations used in this product no hazardous circumstances are anticipated if the product is used as directed.

<u>Component</u>	<u>Concentration Range</u>	<u>CAS Number</u>
Chlorine dioxide	<Less than 2000 PPM by Weight	10049-04-4
Sodium bicarbonate	<1000 PPM	144-55-8
Sorbitan monooleate	<100 PPM	9005-65-5

Contains No Hazardous Components as Listed in 29 CFR 1900.1000  
or other Pertinent Sections of OSHA Regulations

**WHMIS Classification:** Not Controlled

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### Section 3: Physical Data

<b><u>Boiling Range:</u></b> 212 °F (100C)	<b><u>Specific Gravity (Water = 1)</u></b>	1.05
<b><u>Vapor Pressure:</u></b> N/A	<b><u>Percent Volatiles by Volume:</u></b>	100%
<b><u>Vapor Density:</u></b> N/A	<b><u>Evaporation Rate:</u></b>	Less than Ether
<b><u>Water Solubility:</u></b> 100%	<b><u>pH: (Approx.)</u></b>	9.0
<b><u>Appearance:</u></b> Colorless Liquid	<b><u>Odor:</u></b>	Mild-Fresh

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#### **Section 4: First Aid Measures**

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<b><u>General Advice:</u></b>	Product exhibits no adverse effects.
<b><u>Inhalation:</u></b>	Non-reactive - No first aid needed.
<b><u>Skin Contact:</u></b>	Non-irritating - No action needed.
<b><u>Eye Contact:</u></b>	Rinse for 10 minutes with plenty of water.
<b><u>Ingestion:</u></b>	Non-toxic - Drink several glasses of water.

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#### **Section 5: Health Hazard Data**

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##### **Effects of over exposure:**

<b>Breathing-</b>	Albino rats exposed to a respirable aerosol made of stabilized chlorine dioxide at levels up to 2.8mg/L for one hour resulted in no deaths or gross pathology.
<b>Eye Contact-</b>	Mild ocular irritant.
<b>Skin Contact-</b>	Modified Draize tests on albino rabbits showed no dermal irritation on prolonged contact.
<b>Swallowing-</b>	Acute oral toxicity in albino rats: LD <sub>50</sub> = > 1,500 mg/kg. Category III
<b>Chronic-</b>	At the dilution's used in this formulation, chlorine dioxide was found to be <b><u>NON TOXIC.</u></b>

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#### **Section 6: Reaction Data**

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<b><u>Stability:</u></b>	Stable.
<b><u>Incompatibility (materials to avoid):</u></b>	Strong Acids
<b><u>Hazardous Decomposition Products:</u></b>	Thermal or other decomposition may yield chlorine dioxide or chlorine.
<b><u>Hazardous Polymerization:</u></b>	Will not occur.

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#### **Section 7: Spill Procedures**

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**Steps to be taken if material is released or spilled** - No special clean - up measures are required for the consumer product. To avoid the possibility of "bleaching" the spill should be absorbed with paper towels and the area rinsed with clean water.

**Waste disposal methods** - No special precautions are required for the consumer product.

**Volatile Organic Compounds (VOC)** - None.

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#### **Section 8: Special Precautions**

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**Respiratory Protection:** None required for normal use. If consumer product accidentally contacts strong acids in restricted ventilation area, avoid breathing the vapors, and allow adequate time for the vapors to disperse before re-entering the restricted area.

**Ventilation:** Use in adequately ventilated areas.

**Protective Gloves:** Not required for consumer product.

**Eye Protection Equipment:** Not required for consumer products.

**Other Protection:** Not applicable.

**Bulk Handling and Storage Precautions:** Keep away from heat, and strong acids. Do not smoke. Prevent build up of vapors by maintaining continuous flow of fresh air. Do not store above 120 °F, near fire or open flame. Store large quantities in buildings to comply with OSHA 1910.106. Keep container closed when not in use. Do not transfer contents to bottles or other unlabelled containers. Do not reuse empty containers. Keep out of reach of children.

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#### **Section 9: Ecological Information**

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Non Toxic, Non Hazardous, Safe for the Environment. This product is readily biodegradable according to OECD Method, Modified Strum Test.

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#### **Section 10: Transportation Regulations**

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Not classified as dangerous or hazardous in the meaning of transportation regulations.

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#### **Section 11: Regulatory Information**

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Product complies with all known regulatory considerations; it is unregulated and not listed as a hazardous material by any agency.

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