

Material Safety Data Sheet
Product Trade Name: "Expel Odor Neutralizer"
MSDS Sheet Revised August 28, 2002

Section 1: Product and Company Information

Manufacturer: EXPEL Products, Inc.
11910 Shiloh Road (Suite 136)
Dallas, Texas 75228

Phone Numbers:

Product Information: 1-214-461-7211 - Monday - Friday 10am - 6pm

Medical Emergency: Call - CHEMTREC @ 1-703-741-5000 -- Available 24 hours per day.

Chemical Family: Aqueous Oxidant

Section 2: Composition / Information on Ingredients

No active ingredients are present at concentrations greater than 1% by weight. At these levels none of the ingredients identified in this formulation are known by any governmental regulatory agency to pose any hazard to human health. The liquid has a very mild fresh odor. It is a water-based system with freeze points; boil points and auto ignition temperatures near those of water.

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

- Formula contains items considered to be a Trade Secret and are withheld in accordance with the provisions of 1910.1200 of Title 29 of the code of Federal Regulations (USA).
- Contains no hazardous components as listed in 29 CFR 1900.1200 or other pertinent sections of OSHA Regulations
- **WHMIS Classification:** Not Controlled.
- **California Proposition 65:** The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986. The product contains no chemicals known to the State of California to cause cancer.

Section 3: Hazardous Identification

Effects of Overexposure - Breathing: Albino rats exposed to a respirable aerosol made from a solution of stabilized chlorine dioxide at levels up to 2.8mg/L for one hour resulted in no deaths or gross pathology.

Eye Contact: In extremely rare cases a minor ocular irritation may occur.

Skin Contact: Modified Draize tests on albino rabbits showed no dermal irritation on prolonged contact.

Swallowing: Acute oral toxicity in albino rats: LD50 = > 1,500 mg/kg. Category 3.

Chronic: At the dilution's used in this formulation chlorine dioxide and all other components were found to be **NON-TOXIC, NON-HAZARDOUS, and ENVIRONMENTALLY RESPONSIBLE.**

Expel Odor Neutralizer is readily biodegradable according to OECD Method, Modified Strum Test.

In section 3 we indicated potential routes of entry and listed all applicable test data, for further clarification we state:

Breathing: In the unlikely case that someone has a reaction to vapors remove individual and allow them to breath fresh air. No further treatment is required.

Eye Contact: Rinse with clean water utilizing eye wash equipment or clean water for 15 minutes. No medical attention is required.

Swallowing: If material is swallowed do not induce vomiting. We recommend that the individual be given several glasses of water.

Skin Contact: Use normal hygiene practices. No special precautions needed.

Section 5: Fire Fighting Measures

Flash Point: None

Test Method: Closed Cup

Autoignition Temperature: Not Determined

Flammable Limits in Air - Upper & Lower: Non-Flammable

Extinguishing Media: Water, Foam, Carbon Dioxide, And Dry Chemicals.

Special Fire Fighting Procedures: None

Unusual Fire and Explosion Hazards: None

Section 6: Accidental Release Measures

Small quantities of material spilled under 55 Gallons should be mopped and ventilator fans should be used to dry up materials to prevent a Slip or Fall Hazard. In the case of larger spills the material can be diked or contained, mopped up and the excess material once contained can be dried up with an absorbent material. A spill provides no environmental concerns.

Section 7: Handling and Storage

Handling and Storage Precautions: Keep material away from excessive heat, and strong acids, do not store near fire and or open flame. Do not transfer material to other bottles or unlabelled containers. Do not reuse empty containers. KEEP OUT OF REACH OF CHILDREN.

Section 8: Exposure Controls / Personal Protection

Respiratory Protection: None required. If consumer product accidentally contacts strong acids in a restricted ventilation area, avoid breathing the vapors, and allow adequate time for the vapors to disperse.

Ventilation: No special ventilation measures needed.

Protective Gloves: Not required.

Eye Protection: None required.

Other Protection: None required.

Hygiene: No special requirements needed.

Section 9: Physical and Chemical Properties

Appearance: Water clear liquid.

Odor: Pleasant fresh scent.

Physical State: Stable chemical solution.

PH: 9.0

Vapor Pressure: Does not apply.

Vapor Density: Does not apply.

Boil Point: 212 F (100C)

Freeze Point: 32 F

Solubility: 100%

Specific Gravity: 1.05

(VOC) Content: 0

Stability: Stable.

Conditions to Avoid: Contact with strong acids.

Incompatibility: Strong acids.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: None

Section 11: Toxicological Information

Effects of Overexposure:

Acute Toxicology - Acute oral toxicology in albino rats: LD₅₀ = 1,500 mg/kg; Category III.

Respiratory Toxicology – 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.

Epidemiology Studies – Studies show via Modified Draize tests on albino rabbits no dermal irritation on prolonged contact.

Chronic Studies – At the dilution's used in this formulation Q-Tech Laboratories found Expels formulation to be Non-Toxic, Non-Carcinogenic, and Readily Biodegradable.

Section 12: Ecological Information

In tests conducted by independent laboratories it was determined that no hazardous components were in Expels formulation and when the formulation was reduced by biodegradation no hazardous components were released or created that damaged the air, water, produced smog or aided in global warming. There are no components in this formula that are listed as hazardous subject to the reporting requirements of Section 313 of the Emergency planning and Community Right to Know Act of 1986 and of 40 CFR 372.

Section 13: Disposal Considerations

Waste Disposal: Follow local environmental guidelines. Nothing in the Expel formula poses a hazard to air, water aquatic life or humans.

Section 14: Transport Information

Expel Odor Neutralizer is not regulated by DOT, not classified as dangerous or hazardous in the meaning of transport regulations covered under TITLE 49 of the Federal Regulations.

This document has been prepared as required by the OSHA Hazard Communications standard (29 CFR 1910.1200) and SARA Section 313 of the Emergency Planning and Right to Know Act of 1986 and 40 CFR 372. We believe all information given is accurate. Our MSDS Sheet is presented in good faith; all chemicals used in the manufacture of this product are listed in TSCA Inventory.
