

# MATERIAL SAFETY DATA SHEET (MSDS)

INFOTRAC 24 HOUR EMERGENCY PHONE: 1-800-535-5053

**Not Available At  
Date Issued**

Name: **OZONE**  
Product: **Triatomic Oxygen**  
Issued: **7/01/98**

**NFPA HAZARD RATING**  
4 = EXTREME 3 = HIGH  
2 = MODERATE 1 = SLIGHT  
0 = INSIGNIFICANT

## SECTION 1 - IDENTIFICATION

Chemical Name: Triatomic Oxygen  
Chemical Family: Gas  
DOT Hazard Class: N/A  
DOT Identification: N/A

## SECTION 2 - HAZARDOUS INFORMATION

Component	CAS #	%	PEL	TLV
Ozone Gas	10028-15-6			0.1ppm

## SECTION 3 - PHYSICAL DATA

Appearance and Odor: Colorless gas, pungent odor. Minimum detectable odor at 0.02ppm.  
Boiling Point: 169.5°F  
Vapor Pressure: at 20°C (68°F)  
Vapor Density (air +1): at boiling point of ozone, 169.5°F  
Solubility in Water: N/A  
Specific Gravity (H<sub>2</sub>O = 1): 1.6 g/l  
Melting Point: 314°F  
Evaporation Rate (H<sub>2</sub>O=1): N/A

## SECTION 4 - FIRE & EXPLOSION DATA

Not flammable, but enhances combustion of other substances to cause fire or explosion.  
Flash Point: N/A  
Flammable Limits: N/A  
LEL: N/A  
UEL: N/A  
Fire Extinguishing Media: Use the extinguisher appropriate to burning material.  
Special Firefighting Procedures: None  
Unusual Fire Hazards: Increased oxygen can feed fire.  
Explosion Hazards: None

## SECTION 5 - REACTIVITY DATA

Stability: Unstable. Begins to dissipate immediately.  
Conditions to Avoid: N/A  
Incompatibility: High levels for extended periods will cause deterioration of rubbers, paint and metal.  
Hazardous Decomposition: N/A  
Hazardous Polymerization: None

Disclaimer: The information in this document applies to workplace exposure and is not designed for the population at large. Any generalization beyond occupational exposures should not be made.

## SECTION 6 - HEALTH HAZARD DATA

Health Hazards: Irritation of the eyes and respiratory tract. Inhalation of the gas may cause lung edema or asthmatic reactions. Symptoms may not become noticeable for several hours. Lungs may be affected by repeat or prolonged exposure.  
Carcinogenicity: None known.  
Medical Conditions Aggravated by Exposure: N/A  
Methods of Exposure: Inhalation and contact on skin and eyes.  
Symptoms of Exposure: Cough, dry throat, irritated eyes, headache. Possible asthma-like symptoms with overexposure.

## EMERGENCY FIRST AID:

Eye and Skin: Move to fresh air.  
Inhalation: Move to fresh air. Seek medical attention if asthma-like symptoms are noticed.  
Ingestion: N/A

## SECTION 7 - PRECAUTIONS FOR SAFE HANDLING & USE

Storage and Handling: N/A  
Spill Response: N/A  
Waste Disposal: N/A  
Other Precautions: EPA Recommended Exposure Limits: 0.1ppm/8hrs or maximum 0.3ppm for 10 mins.

NOTE: Threshold limit values refer to airborne concentrations of ozone and represent conditions under which it is believed that nearly all workers may repeatedly be exposed day after day without adverse effect, however a small percentage of workers may experience discomfort at levels below those listed.

## SECTION 8 - CONTROL MEASURES

This gas is designed to be used for a limited time in a controlled environment.  
Eye Protection: None  
Ventilation: When treatment is complete, ventilate the area completely until all smell of ozone is gone. Do not allow people or pets into the area until the ozone smell is eliminated.  
Respiratory Protection: Do not use in inhabited spaces. Clear all people, animals, plants and any other organic life from the area to be treated.  
Protective Clothing or Other Equipment: None  
Work/Hygienic Practices: N/A