

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Product name : Prozone Unit
Supplier : Vectair Systems Ltd
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EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:
Vectair Systems Limited : +44-1256-319500

1.2 Trading Name

Prozone Unit (PROZONE)

2. HAZARD INFORMATION

Human: If ingested, may cause some irritation to the mouth and respiratory tract.

Ozone is most often generated from air at concentrations of 1-10% by weight. At these concentrations Ozone is non-explosive. Ozone at these concentrations will support combustions only slightly better than air itself.

3. COMPOSITION / INFORMATION ON CONSTITUENTS

Hazardous Ingredient(s)	CAS No: % (W/W)	Symbol	R Phrases
Ingredient	Concentration	CAS No	P Phrases
Ozone	Up to 5% wt. max	10028-15-6	Toxic Gas
Air or Oxygen	Remainder depending on Feeder gas		

4. FIRST AID MEASURES

Personal Precautions: Evacuate area. Wear appropriate respiratory protection
Discharge to atmosphere in a well-ventilated place

Environmental Precautions: None, allow to decay naturally to oxygen

Handling: Ensure generating equipment is correctly set up. Keep away from Materials which degrade or oxidise in the presence of Ozone.
Refer to operating instructions for generator.

Storage: Cannot be stored as it will revert back to Oxygen in a few hours.

5. FIRE FIGHTING METHODS

6. ACCIDENTAL RELEASE MEASURES

7. HANDLING & STORAGE

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit: 0.2ppm (v/v) 15 mins. TWA according to EH40 (UK)
Ensure adequate ventilation
Wear respiratory protection if continually exposed to levels above 0.2ppm

Molecular Weight: 48
Melting Point: -196°C
Boiling Point: -110°C
Density Gas (NTP): 2.144g/litre
Solubility in water: 14mg/1water (mg/dm)gas @20°C and 2%
Odour: 'Bleach' smell at concentrations above 0.13ppm (v/v)
Other Data: Gas is heavier than air

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Appearance

9.2 Safety Relevant Data

10. STABILITY & REACTIVITY

Thermal decomposition occurs rapidly above 200°C, (in a few hours at room temperature). The half-life time in the gas phase at room temperature is 30 minutes to 2 hours.

When dissolved in pure water at room temperature, the half-life is between 10 minutes and 30 minutes.

Avoid certain textiles, fabrics, organic dyes, rubber and plants.

11. TOXICOLOGICAL INFORMATION

May induce nausea and headaches

Possible lung damage on prolonged exposure at high concentration

12. ECOLOGICAL INFORMATION

Does not form a permanent ecological hazard

Discharge to atmosphere in a well ventilated place

13. DISPOSAL CONSIDERATIONS

14. TRANSPORT INFORMATION

14.1 Land Transport (ADR/GGVS, RID/GGVE)

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14.2 Marine Transport (IMDG)

14.3 Air Transport (ICAO/IATA)

15. REGULATORY INFORMATION

15.1 Labelling According to EC-Guidelines

Symbol Of Danger

Guidance Note DH38 (UK):- Ozone: Health Hazards and Precautionary Methods

Ozone is unstable and cannot be stored

Ozone is made at, or close to, the point of use

It is used as a de-odouriser, fungicide, bactericide, and algaecide

It is frequently made as a side-effect in machinery, for example, photocopiers

Notes: NTP: Normal temperature and pressure 0°C and 1 atmosphere
TWA: Time Weighted Average

16. OTHER INFORMATION

This safety data sheet takes into account the enactment of Council Directive 67/548, and its amendments/adaptations.

The information on this Material Safety Data Sheet, while believed to be reliable, is intended for use by skilled persons at their own risk. Vectair Systems Limited assumes no responsibility for events resulting or damages incurred from its use. The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

The information is accurate to the best of our knowledge and is based on information which we consider is reliable. It is furnished without warranty.