

SAFETY DATA SHEET

OZONE FROM AIR UNITS WITH OUTPUTS<= 100mg/h

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Name/synonyms: Ozone (triatomic oxygen, activated oxygen)
Chemical Formula: O₃
Company Identification: Vectair Systems Ltd,
Unit 3 The Trident Centre, Armstrong Road, Basingstoke, Hampshire
RG24 8NU, UK, England
Tel: +44 (0)1256 319500

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

| CHEMICAL NAME | CONCENTRATION | RISK PHRASES | CAS NO |
|---------------|------------------------------|--------------|------------|
| ozone | <5 ppm @ generator outlet | irritant | 10028-15-6 |
| air | balance | - | - |

SECTION 3: HAZARDS IDENTIFICATION

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|  | Irritant to eyes and respiratory tract at concentrations above the WEL. (>-0.2ppm) |
| R36, R37 | irritating to the eyes and respiratory tract at concentrations in the atmosphere above the WEL |

SECTION 4: FIRST AID MEASURES

Inhalation: Remove the person to an uncontaminated area.

SECTION 5: FIRE – FIGHTING METHODS

No risk.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Evacuate area.
Wear appropriate respiratory protection.
Environmental Precautions: None, allow to decay naturally to oxygen.

SECTION 7: HANDLING AND STORAGE

Handling: Ensure generating equipment is correctly set up.
Keep away from materials that 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.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit value: 0.2ppm (v/v) 15 mins TWA according to EH 40 (UK).
Ensure adequate ventilation.
Wear respiratory protection if continually exposed to levels above 0.2ppm.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--------------------|---|
| Description: | colourless gas |
| Molecular Weight: | 48. |
| Melting Point: | -196°C. |
| Boiling Point: | -110°C. |
| Density gas (NTP): | 2.144g/litre. |
| Odour: | 'Bleach' smell at concentrations above 0.03ppm (v/v.) |
| Other Data: | Gas is heavier than air. |

SECTION 10: STABILITY AND 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 10 minutes to 2 hours.
Avoid certain textiles, fabrics, organic dyes, rubbers and plants.

SECTION 11: TOXICOLOGICAL INFORMATION

May induce nausea and headaches.
Possible lung damage on prolonged exposure at high concentration.

SECTION 12: ECOLOGICAL INFORMATION

Does not form a permanent ecological hazard.

SECTION 13: DISPOSAL CONSIDERATIONS

Discharge to atmosphere in a well-ventilated place.

SECTION 14: TRANSPORT INFORMATION

Not applicable. See section 7 – Storage.

SECTION 15: REGULATORY INFORMATION

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|--------------------------|--|
| Guidance Note EH38 (UK): | Ozone: Health Hazards and Precautionary Methods. |
| Risk Phrases: | R36, R37 Irritant to eyes and respiratory tract. |
| BPR (528/2012) | Biocidal Active Substance dossier submitted for evaluation 2016. |
| REACH (1907/2006): | Dossier in preparation. |
| CLP (272/2008) | Out of scope. |

SECTION 16: OTHER INFORMATION

Ozone is unstable and cannot be stored.
Ozone is made at the point of use.
It is used as a de-odouriser, fungicide, bactericide and algacide.
It is frequently made as a side effect in machinery, for example, photocopiers.

SECTION 17: SECTION REVISION AND DATES

10/2/17: BPR and REACH legislation added.
27/2/17 CLP symbols added.

Notes: NTP: Normal Temperature and Pressure (0°C and 1 atmosphere).
TWA: Time Weighted Average.