

# PRODUCT DATA SHEET

## Breather Desiccant Refill - Zeolite



### Description

Our Lubrigard desiccant combines two powerful drying agents - silica gel and zeolite - to deliver exceptional moisture control in demanding environments. The silica gel acts as a visual indicator, changing from green to orange when saturated, while the zeolite ensures high-capacity moisture absorption for long-lasting protection. This optimised formulation extends the life of breather desiccants and safeguards lubricant integrity for peak performance.

### Product and company identification

**Product name:** Lubrigard desiccant

**Synonyms:**

Air dryer, breather desiccant, filter dryer

**Intended use:**

Removes moisture and particulate contamination from airflow systems

**Company name:** Lubrigard

**Company address:**

55 Angus Cres, Longmeadow Business Estate, Johannesburg, 1610

**Emergency phone number:**

011 392 6322

### Product specifications

**Composition:**

- 80% Zeolite
- 20% orange to green silica gel (colour indicator)

**Note:** The colour-changing silica gel contains a moisture indicator that transitions from orange to green as it absorbs water. The silica gel is treated with a trace amount of cobalt chloride for indicating moisture levels.

### Refill product codes

Breather series	Series 300	Series 600	Series 1000	Series 2000
Replacement part #	LBG-ZO-300	LBG-ZO-600	LBG-ZO-1000	LBG-ZO-2000
Amount of desiccant	230g	460g	770g	1540g

Regulation Compliance: Complies with OSHA Hazard Communication Standard (29 CFR 1910.1200)



Component	CAS number	Percentage	Hazard classification
Zeolite (synthetic)	1318-02-1	80%	Non-hazardous material
Orange to green silica gel (with cobalt chloride as indicator)	7631-86-9	20%	May cause irritation (see below section)

## Ecotoxicity

### Zeolite:

- No adverse environmental impact expected.

### Silica gel:

- Non-toxic, but cobalt chloride indicator can be harmful to aquatic life if released in large quantities.

### Persistence and degradability:

- Non-degradable (Zeolite and silica gel are inert materials).

## Acute toxicity

### Zeolite:

- Not classified as hazardous. Silica gel (with cobalt chloride).
- May cause irritation to eyes, skin, and respiratory system. Prolonged exposure to cobalt chloride can lead to respiratory or skin sensitisation.

### Chronic toxicity:

- No known long-term health effects from zeolite.
- Prolonged exposure to cobalt chloride (present in the silica indicator) may cause allergic reactions or chronic respiratory issues.

## Handling and storage

### Handling:

- Avoid creating dust. Use appropriate protective equipment to avoid inhalation and skin contact.

### Storage:

- Store in a cool, dry area. Keep containers tightly closed to avoid moisture exposure. Avoid storage with incompatible materials like strong acids or oxidising agents.

## Hazards identification

### Emergency overview:

#### Physical State:

- Granular solid

#### Color:

- Orange (dry), Green (when saturated with moisture)

#### Odour:

- Odourless



## Potential health effects

### Inhalation:

- Prolonged or repeated exposure to dust from silica gel may cause irritation to respiratory tract.

### Skin contact:

- Prolonged contact may cause dryness or irritation.

### Eye contact:

- Dust from the product may cause irritation to the eyes.

### Ingestion:

- Non-toxic, but ingestion of large quantities may cause discomfort.

### Chronic health hazards:

- Prolonged exposure to cobalt chloride (used in the indicator) has been linked to respiratory and skin sensitivity in some cases

## Fire fighting measures

### Flammability:

- Non-flammable.

### Suitable extinguishing media:

- Use any standard extinguishing media: water spray, dry chemical, foam, or CO<sub>2</sub>.

### Special protective equipment for firefighters:

- Wear self-contained breathing apparatus (SCBA) and full protective gear.

### Hazardous combustion products:

- In a fire, toxic fumes of carbon monoxide, carbon dioxide, or silicon oxides may be produced.

## First aid measures

### Inhalation:

- Move the exposed person to fresh air. If breathing is difficult, seek medical attention.

### Skin contact:

- Wash thoroughly with soap and water. If irritation develops or persists, consult a physician.

### Eye contact:

- Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if applicable. Seek medical attention if irritation persists.

### Ingestion:

- Rinse mouth thoroughly with water. Drink plenty of water. Seek medical attention if discomfort persists.

## Stability and reactivity

### Stability:

- Stable under normal conditions.

### Conditions to avoid:

- Avoid moisture exposure for prolonged periods (increases product saturation). Avoid extreme temperatures.

### Incompatible materials:

- Strong acids, strong bases, oxidizing agents.

### Hazardous decomposition products:

- None under normal conditions of use.

## Physical and chemical properties

Appearance: orange when dry, green when saturated

Physical state: solid, granular

Odour: odourless

Melting point: n/a

Boiling point: n/a

Flash point: non-flammable

Solubility in water: insoluble (Zeolite), slightly soluble (Silica gel)

Specific gravity: ~2.0

