

Safety Data Sheet

1. Product and Company Identification

Product Name: Bird Barrier Optical Gel
Product Use: Bird repellent
US Distributor: Bird Barrier America, Inc.
20925 Chico Street, Carson, CA 90746, USA
Phone: 310-527-8000
Manufacturer: EZflex Co., Ltd.
#503 Yuwon Building, 457-22
Seongnae1-dong, Gangdong-gu, Seoul, Korea
Phone: 82-2-485-3575

2. Hazard Identification

GHS Classification : Not classified

- Signal word :** -
- Hazard statement :** -

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent(%)
Agar	9002-18-0	>60
Peppermint	8006-90-4	1-5
Beeswax	8012-89-3	20~30
Citronella	8000-29-1	>1

4. First aid measures

After eye contact

- Flush eyes with running water for at least 15 minutes.
- If needed, seek medical attention.

After skin contact

- Flush skin with running water for at least 15 minutes.
- Remove and isolate contaminated clothing and shoes.
- Wash and dry contaminated clothing and shoes before reuse thoroughly.
- If needed, seek medical attention.

After inhalation

- If needed, seek medical attention.

After swallowing

- Seek medical attention immediately.
- Call 911 or emergency medical service.

Notes to physician

Safety Data Sheet

- Ensure that medical personnel are aware of the materials involved and take precautions to protect themselves.

5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing agents : Dry Chemical, CO2, water spray or regular foam.

Unsuitable extinguishing agents : Not available

Large Fires : Water spray, fog or regular foam.

Hazardous combustion products :

This product may evolve Carbon oxides and Silicon dioxide during fire or very high heat conditions.

Protection of firefighters

Specific hazards arising from the chemical :

May burn but does not ignite readily.

Protective equipment for firefighters :

Firefighters should wear self-contained breathing apparatus (SCBA).

Structural firefighter's protective clothing will only provide limited protection.

General fire hazards

- Move containers from fire area if you can do it without risk.
- Cool containers with flooding quantities of water until well after fire is out.
- Do not scatter spilled material with high pressure water streams.
- Always stay away from tanks engulfed in fire.

6. Accidental release measures

Personal precautions

- Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).
- Wear protection gloves.

Environmental precautions

- Atmosphere : Use with adequate ventilation.
- Land : Dike far ahead of liquid spill for later disposal.
- Underwater : Prevent entry into waterway and sewers.

Methods for cleaning up

Small Spill

- Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

Large Spill

- Dike far ahead of liquid spill for later disposal.

7. Handling and Storage

Safe Handling

- Wash thoroughly after handling.

Safety Data Sheet

- Use with adequate ventilation.
- Avoid contact with eyes, skin, and clothing.
- Avoid ingestion.

Safe Storage

- Keep container closed.
- Store in the well ventilated area.

8. Exposure controls and personal protection

Engineering controls : Good industrial hygiene practices should be observed.

Personal protective equipment

Respiratory protection: Wear an approved NIOSH dustproof respirator.

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves.

Clothing: Wear appropriate protective clothing.

9. Physical and chemical information

Appearance	Gel
Color	Pale yellow
Odor	Pungent
Odor threshold	Not determined
pH	Not determined
Melting point/Freezing point	Not determined
Initial boiling point and Boiling range:	Not determined
Flashpoint	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not determined
Vapor pressure	Not determined
Solubility	Not determined
Vapor density	Not determined
Relative Density	Not determined
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined

Safety Data Sheet

Decomposition temperature	Not determined
Viscosity	Not determined
Molecular weight	Not determined

10. Stability and reactivity

Stability : No data.

Conditions to Avoid : Heat, flame, spark and other ignition sources

Incompatible materials : oxidizing agents

Hazardous decomposition products : May produce carbon oxides or silicon.

11. Toxicological information

○ Acute toxicity (Oral)	<u>Silicone</u> Rat LD50>17000mg/kg (ChemIdplus) <u>Oleoresin capsicum</u> Rat LD50>3000mg/kg (ChemIdPlus)
○ Acute toxicity (Dermal)	<u>Silicone</u> Rabbit LD50>2000mg/kg (ChemIdplus) <u>Oleoresin capsicum</u> Rat, LD50>2500mg/kg bw (ChemIdPlus)
○ Acute toxicity (inhalation)	<u>Oleoresin capsicum</u> Rat LC50>10000gm/m3/4h (Conversion: 10000mg/L/4h) (ChemIdplus)
○ Skin corrosion/irritation	N/A
○ Serious eye damage / eye irritation	<u>Silicone</u> Eye irritant(HSNO) <u>Oleoresin capsicum</u> Eye irritant(HSNO)
○ Respiratory sensitization	N/A
○ Skin sensitization	N/A
○ Carcinogenicity	N/A
○ Germ cell mutagenicity	N/A
○ Reproductive toxicity	N/A
○ Specific target organ Toxicity (Single exposure)	N/A
○ Specific target organ Toxicity (Repeated exposure)	N/A
○ Aspiration	N/A

12. Ecological information

Toxicity <u>Silicone</u> ○ Fish (<i>Ictalurus punctatus</i>) ○ Crustacea (<i>Daphnia Magna</i>)	96hr LC50=3.16mg/L (ECOTOX) 48hr LC50=44.5mg/L (ECOTOX)
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Safety Data Sheet

○ Water Solubility	0.006997mg/L, Poorly water soluble (Episuite) Lack of rapid degradability (Episuite:Biowin 2,5,6,7)
Persistence and degradability	No data
Bioaccumulative potential	No data
Mobility in soil	No data
Other adverse effects	No data

13. Disposal considerations

- Standard Industrial Classification (SIC codes): Manufacturing- Pharmaceutical preparations (SIC codes: 2834)
- **Any special precautions for incineration or landfill** : Incinerate

14. Transport information

UN Number : Not regulated
UN Proper Shipping Name : -
Transport hazard class : -
Packing group, if applicable : -
Environmental hazards : Not regulated
Special precautions for user : -

15. Regulatory information

Safety, health and environmental regulations specific for the product in question:

- **US Regulation**
 - OSHA : Not regulated
 - CERCLA (40CFR 302.4): Not regulated
 - SARA 302, SARA 304 : Not regulated
 - SARA 311/312 : Not regulated
 - SARA 313 : Not regulated
 - Toxic Substance Control Act (TSCA): Not regulated
 - RCRA (40 CFR 261.31): Not regulated
 - RCRA (40 CFR 261.33): Not regulated
 - Rotterdam Convention: Not regulated
 - Stockholm Convention on Persistent Organic Pollutants: Not regulated
 - Montreal Protocol : Not regulated

16. Other information

References

- National library of Medicine (NLM) ChemIDPlus: (<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM>)
- Corporate Solution From Thomson Micromedex(<http://csi.micromedex.com>)
- ECOTOX Database, EPA (<http://cfpub.epa.gov/ecotox>)

Safety Data Sheet

- Environmental Risk Management Authority New Zealand
- Estimation Program Interface (EPI) Suite (U.S. EPA)

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