



1. Product and Company Identification

Company

GrowZorb Technologies Inc.
2786 Ross Road
Abbotsford, BC V4X 1J4 CANADA

Synonyms: Polyurethane Elastomer

2. Hazards Identification

Emergency Overview

NO PARTICULAR HAZARDS KNOWN

State of matter: solid
Color: yellowish to brown
Odor: characteristic

Potential Health Effects:

Acute toxicity:

Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation. Virtually nontoxic after a single ingestion.

Irritation / corrosion:

Not irritating to the eyes. Not irritating to the skin

Assessment other acute effects:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Sensitization:

The chemical structure does not suggest a sensitizing effect.

Chronic toxicity:

Carcinogenicity: The chemical structure does not suggest a specific alert for such an effect.

Repeated dose toxicity: No known chronic effects.

Reproductive toxicity: The chemical structure does not suggest a specific alert for such an effect.

Teratogenicity: The chemical structure does not suggest a specific alert for such an effect.

Genotoxicity: The chemical structure does not suggest a specific alert for such an effect.

Signs and symptoms of overexposure:

No significant reaction of the human body to the product known.
No hazards anticipated



Potential environmental effects:

Aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Degradation / environmental fate:

Poorly biodegradable.

3. Composition / Information on Ingredients.

Not WHMIS controlled.

4. First-Aid Measures

If inhaled:

After inhalation of decomposition products: Remove the affected individual into fresh air and keep the person calm. Seek medical attention if necessary.

After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid.

If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Seek medical attention if necessary.

Note to physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures.

Flash point: > 110 °C

Autoignition > 250 °C

Lower explosion limit: For solids not relevant for classification and labeling.

Upper explosion limit: For solids not relevant for classification and labeling.

Self-ignition temperature: 650 deg F

Suitable extinguishing media:

Water spray, dry powder, carbon dioxide, foam

Hazards during fire-fighting:

If product is heated above decomposition temperature, toxic vapours will be released.



Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

6. Accidental release measures

Personal precautions:

No specific precautions necessary.

Cleanup:

Place into suitable container for disposal. See MSDS section 13. Disposal consideration.

7. Handling and storage

Handling:

General advice:

Ensure thorough ventilation of stores and work areas. Protect against moisture.

Storage:

General advice:

Avoid deposition of dust. No special precautions necessary.

8. Exposure Controls and Personal Protection

Advice on system design:

Provide local exhaust ventilation to control dust.

Personal protective equipment:

Respiratory protection:

Wear a NIOSH-certified (or equivalent) particulate respirator.

Hand protection:

Working gloves

Eye protection:

Safety glasses

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash soiled clothing immediately.

9. Physical and Chemical Properties

Form:	solid
Odour:	characteristic
Odour threshold:	no data available
Colour:	yellowish to brown



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pH value:	≥ 7
Melting temperature	not applicable
Boiling point	$> 140\text{ }^{\circ}\text{C}$
Vapour pressure	$< 0.1\text{ hPa}$ (25 °C)
Density	approx. 0.011 g/cm ³ (20 °C)
Bulk density	approx. 10.52 kg/m ³ (20 °C)
Vapour density	not applicable
Partitioning coefficient n- Octanol/water (log Pow)	not applicable
Viscosity, dynamic	not determined
Solubility in water	not soluble
Other information	If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Conditions to avoid:

Avoid all sources of ignition, heat, sparks, open flame.

Substances to avoid:

Acids, oxidizing agents, isocyanates.

Hazardous reactions:

The product is chemically stable.

Decomposition products:

Thermal decomposition products, carbon monoxide, carbon dioxide, hydrogen cyanide, ether, esters, ketones.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

Corrosion to metals:

No corrosive effect on metal.

Oxidizing properties:

Not fire-propagating

11. Toxicological information

Sensitization:

Result: Non-sensitizing

Aspiration hazard:

No aspiration hazard expected.

12. Ecological Information



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Other adverse effects:

The product has not been tested. Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

Dispose of in a licensed facility.

14. Transport Information

Land transport:

TDG Not classified as a dangerous good under transport regulations.

Sea transport:

IMDG Not classified as a dangerous good under transport regulations.

Air transport:

IATA/ICAO Not classified as a dangerous good under transport regulations.

15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSI., CA released / exempt

Article

WHMIS does not apply to this product

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

Recommended use: polyurethane component industrial chemicals

Suitable for use in industrial sector: Polymers industry, chemical industry

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products and minimizing the impact of our operations on society and the environment during productions, storage, transport, use and disposal of our products.