

# Safety Data Sheet



**Trade Name:** GL-805A Blue Ceramic Gel

## SECTION 1. IDENTIFICATION

**Issue Date:** 12.10.2019  
**Product identifier used on the label:** GL-805A Blue Ceramic Gel  
**Product Name:** Ceramic Polymer Gel

**Other means of identification:** none

### Recommended use of the chemical and restrictions on use:

**Recommended use:** Polyurethane gel additive  
**Recommended restrictions:** Uses other than as recommended above

**Company Name:** Urethane Sciences, LLC  
**Company Address:** 121 Cross Keys Road, Building E  
Berlin, NJ 08009  
**Company Telephone:** Phone: (856) 282-4506  
**Company Contact Email:** info@usci.net

**Emergency Phone:** ChemTrec (24 Hours): 1-800-424-9300  
(Outside of USA 202-366-4488)

## SECTION 2: HAZARD(S) IDENTIFICATION

### *Physical hazards*

No physical hazards identified under paragraph (d) of §1910.1200

### *Health hazards*

None

### *Environmental hazards*

Not adopted under OSHA GHS §1910.1200.

**GHS Signal word:** None

**GHS Hazard statement(s):** Not applicable

**GHS Hazard symbol(s):** None

**Precautionary statement(s):**

## GL-805A

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

### Prevention:

Not Applicable

### Response:

Not Applicable

### Disposal:

Dispose of contents/containers to an approved disposal site in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise Classified (HNOC):** None known

## SECTION 3: Composition/Information on ingredients

**Mixture:** Additive mixture for the production of polyurethane foam

CHEMICAL NAME	CAS #	Concentration (weight %)
Non- Hazardous Polymer Gel	Unknown	75 – 85%
Aluminum Oxide	1344-28-1	15 – 25%

## SECTION 4: FIRST AID MEASURES

**Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:**

**Inhalation:** Remove person to fresh air. No known significant effects. Seek medical attention for any signs of wheezing and/or breathing difficulties. For additional advice call the medical emergency number on this SDS or your poison center or medical provider.

**Skin contact:** No known significant effects. Rinse the affected areas with water. Remove contaminated clothing, jewelry, and shoes. Wash/clean items before reuse. Seek medical attention for persistent skin pain or irritation. For additional advice call the medical emergency number on this SDS or your poison center or doctor.

**Eye contact:** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Ingestion:** Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical

attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.

**Most important symptoms/effects, acute and delayed:** Aside from the information presented above under First Aid measures, any additional known symptoms or effects are described in Section 11

**Indication of immediate medical attention and special treatment needed:** If any symptoms are observed, contact a physician and give them this SDS sheet. If concerned: Get medical advice/attention. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## SECTION 5: FIRE FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:**

**Suitable extinguishing media:** Use carbon dioxide or dry chemical.

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):**  
None known

**Special protective equipment and precautions for fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental Precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused adverse impacts (sewers, waterways, soil or air). See Section 12, Ecological Information.

**Methods and materials for containment and cleaning up:** Stop leak. Move containers from spill area. Use appropriate equipment to put the spilled substance in a container for reuse or disposal. Recover the material and use it for the intended purpose, or Dispose of via a licensed waste disposal contractor. See Section 13, Disposal Considerations, for additional information.

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling:** Wear protective work clothing, gloves, and safety goggles

**Conditions for safe storage, including any incompatibles:** Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for more specific information.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Aluminum oxide:

ACGIH

TWA: 10 mg/m<sup>3</sup>

OSHA

TWA: 15 mg/m<sup>3</sup> total dust

TWA: 5 mg/m<sup>3</sup> respirable fraction (vacated)

TWA: 10 mg/m<sup>3</sup> total dust (vacated)

TWA: 5 mg/m<sup>3</sup> respirable fraction

NIOSH

Not established

DNEL/DMEL and PNEC values DNEL/DMEL and PNEC values:

Worker - inhalative, long-term - systemic 3 mg/m<sup>3</sup>

Consumer - oral, long-term - systemic 6.22 mg/kg bw/d

Predicted No Effect Concentration (PNEC)

Sewage treatment plant 20 mg/l

### Exposure controls

**Engineering controls:** Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### Individual protection measures

**Eye/face protection:** Where there is potential for eye contact, wear face shield or chemical goggles and have eye flushing equipment immediately available.

### Skin protection

**Hand protection:** Wear appropriate protective clothing to prevent repeated or prolonged skin contact. Follow good industrial hygiene practices.

**Other protection:** Selection of specific items will depend on the operation. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection:** Respiratory protection not normally needed since volatility and toxicity are low. If vapors, mists or aerosols are generated, wear an approved respirator. An approved air purifying respirator with dust/mist filter. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

<b>Physical state:</b>	Gel Solid
<b>Color:</b>	Blue to Blue/Green
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Melting point/freezing point:</b>	Not available
<b>Initial boiling point and boiling range:</b>	Not available
<b>Flash point:</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas):</b>	May form combustible dust concentrations in air
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%):</b>	Not available
<b>Flammability limit – upper (%):</b>	Not available
<b>Explosive limit – lower (%):</b>	Not available
<b>Explosive limit – upper (%):</b>	Not available
<b>Vapor pressure:</b>	Not available
<b>Vapor density:</b>	Not available
<b>Relative density:</b>	Not available
<b>Solubility (ies):</b>	Not available
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity (dynamic):</b>	Not available
<b>% Volatile:</b>	Not volatile at or near room temperature

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity:</b>	Not considered to be reactive.
<b>Chemical stability:</b>	Stable under normal ambient conditions and anticipated conditions of use.
<b>Possibility of hazardous reactions:</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>Conditions to avoid:</b>	No specific data.
<b>Incompatible materials:</b>	Incompatible with some strong acids. Incompatible with some alkalis. Incompatible with halogens. Incompatible with oxidizers
<b>Hazardous decomposition products:</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: TOXICOLOGICAL INFORMATION**

*Toxicological information appears in this section when such data is available.*

**Acute toxicity**

**Acute oral toxicity**

Very low toxicity to humans and animals

Non-Hazardous Polymer Gel:

Single dose oral LD50 has not been determined.

Estimated LD50, rat > 2000 mg/kg

Aluminum oxide:

Oral LD50 > 2000 mg/kg Rat

Inhalation LC50 > 2.3 mg/l 4-hr Aerosol : Rat

**Acute dermal toxicity**

No significant effects or critical hazards

**Acute inhalation toxicity**

Aluminum oxide:

Inhalation LC50 > 2.3 mg/l 4-hr Aerosol : Rat

**Skin corrosion/irritation**

Non-irritating to the skin.

**Serious eye damage/eye irritation**

Non-irritating to the eyes.

**Sensitization**

No relevant data found.

**Specific Target Organ Systemic Toxicity (Single Exposure)**

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Evaluation of available data suggests that this material is not an STOT-SE toxicant.

### **Specific Target Organ Systemic Toxicity (Repeated Exposure)**

Aluminum oxide:

Repeated dose toxicity Inhalation 28-d Rat NOAEL (No observed adverse effect level) 70 mg(Al)/m<sup>3</sup>

Repeated dose toxicity 1- Year Rat NOAEL (No observed adverse effect level)  $\geq 30$  mg Al/kg bw

### **Carcinogenicity**

No relevant data found.

### **Teratogenicity**

No relevant data found.

### **Reproductive toxicity**

No relevant data found.

### **Mutagenicity**

No relevant data found.

### **Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

## **SECTION 12: ECOLOGICAL INFORMATION**

*Ecotoxicological information appears in this section when such data is available.*

### **Toxicity**

**Acute toxicity to fish:** Very low solubility. Not considered to be harmful to aquatic life.  
Aluminum Oxide WGK Classification (VwVwS) 1346. WGK: nwg

### **Persistence and degradability**

**Biodegradability:** Readily biodegradable.

### **Bioaccumulative potential**

**Bioaccumulation:** Not available

### **Mobility in soil**

No data available.

### SECTION 13: DISPOSAL CONSIDERATIONS

**Disposal methods:** The generation of waste should be avoided or minimized wherever possible.

Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### SECTION 14: Transport Information

#### **US Department of Transportation Classification (49CFR)**

Not regulated for transport

#### **Maritime transport IMDG**

Not regulated for transport. Consult IMO regulations before transporting in bulk.

#### **Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)**

No further relevant information available.

#### **Air transport ICAO-TI and IATA-DGR**

Not regulated for transport

**Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.**

No data available

### SECTION 15: REGULATORY INFORMATION

#### **USA:**

**United States Federal Regulations:** This SDS complies with the OSHA, 29 CFR 1910.1200. The product is not hazardous under OSHA.

**Toxic Substances Control Act (TSCA)** – All components are on the U.S. EPA TSCA Inventory List.

#### **CERCLA Hazardous Substance List, 40 CFR 302.4:**

No components listed

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

##### **Hazard categories:**

Immediate Hazard - No

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard – No



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**Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):** None listed

**Section 311 hazardous chemical:** None listed

**SARA Section 313 (Specific toxic chemical listings):** None listed

**STATE REGULATIONS:**

This SDS contains specific health and safety data is applicable for state requirements. For details on your regulatory requirements, you should contact the appropriate agency in your state.

**California Proposition 65 (California Safe Drinking Water and Toxic Enforcement Act of 1986):** No components are listed on Prop 65.

**Pennsylvania Worker and Community Right-To-Know Act:**

The following chemicals are listed because of the additional requirements of Pennsylvania law:

Aluminum Oxide CASRN: 1344-28-1

**SECTION 16: OTHER INFORMATION**

Revision Date: 6/9/2020

DISCLAIMER: To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any legal liability for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.