

# OptiSource™

## The Optical Supply Resource

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### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product identifiers

**Product name :** Polyedge Glaze

**Product Identifier :** 99-PEG, 99-PEGP

**Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses :** Laboratory chemicals, Manufacture of lenses

**Supplier:** Optisource

40 Sawgrass Drive

Bellport, NY 11713

**Telephone :** +1 631 924 8360

**Emergency Phone # :** 1-703-527-3887

### 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2)

Acute toxicity, Oral (Category 4)

Acute toxicity, Inhalation (Category 3)

Skin irritation (Category 2)

Eye irritation (Category 2A)

Carcinogenicity (Category 1B)

Specific target organ toxicity - single exposure (Category 3), Respiratory system

**Signal word** Danger



**Hazard statement(s)** Highly flammable liquid and vapour.

Harmful if swallowed.

Causes skin irritation.

Causes serious eye irritation.

Toxic if inhaled.

May cause respiratory irritation.

May cause cancer.

#### Precautionary statement

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed.

Ground/bond container and receiving equipment

Use explosion-proof electrical/ ventilating/ lighting/ equipment

Use only non-sparking tools.

Take precautionary measures against static discharge  
 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 Wash skin thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/ eye protection/ face protection.  
 Use personal protective equipment as required.  
 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF exposed or concerned: Get medical advice/ attention.  
 If skin irritation occurs: Get medical advice/ attention.  
 If eye irritation persists: Get medical advice/ attention.  
 Take off contaminated clothing and wash before reuse.  
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
 Store in a well-ventilated place. Keep container tightly closed.  
 Store in a well-ventilated place. Keep cool.  
 Store locked up.  
 Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS – none known**

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Synonyms :** Polyedge Glaze, 99-PEG, 99-PEGP

**Component Classification Concentration:** 100%

**Ingredients-** 100% trade secret mixture. The specific chemical identity has been withheld as a trade secret.

### **4. FIRST AID MEASURES**

**General advice** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### **Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

### **Indication of any immediate medical attention and special treatment needed**

No data available

### **5. FIREFIGHTING MEASURES**

#### **Extinguishing media**

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### **Unsuitable extinguishing media**

None Known

#### **Special hazards arising from the substance or mixture**

Carbon oxides, Hydrogen chloride gas

#### **Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

#### **Further information**

Use water spray to cool unopened containers.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### **Methods and materials for containment and cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

### **Reference to other sections**

For disposal see section 13.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.

### **Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Flammable liquids

### **Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

#### **Components with workplace control parameters**

Component	Value	Control parameters
Component A	TWA 10.000000 ppm USA. ACGIH Threshold Limit Values (TLV)	Remarks Liver damage, Nausea
Not classifiable as a human carcinogen	TWA 1.000000 ppm	
	4.000000 mg/m <sup>3</sup>	
USA. NIOSH Recommended Exposure Limits		
Potential Occupational Carcinogen	See Appendix C	See Appendix A
	ST 2.000000 ppm	
	8.000000 mg/m <sup>3</sup>	
USA. NIOSH Recommended Exposure Limits		
Potential Occupational Carcinogen	See Appendix C	See Appendix A
	See Table Z-2	TWA 50.000000 ppm USA.
Occupational Exposure Limits		
(OSHA) - Table Z-2	Z37.21-1969	CEIL 100.000000 ppm
USA. Occupational Exposure Limits (OSHA) - Table Z-2		
Z37.21-1969	Peak	200.000000 ppm
USA. Occupational Exposure Limits (OSHA) - Table Z-2		
Z37.21-1969		

Component A TWA 10.000000 ppm USA. ACGIH Threshold Limit Values

(TLV) Remarks Liver damage, Nausea

Not classifiable as a human carcinogen TWA 1.000000 ppm

4.000000 mg/m<sup>3</sup>

USA. NIOSH Recommended Exposure Limits

Potential Occupational Carcinogen See Appendix C See Appendix A ST 2.000000 ppm

8.000000 mg/m<sup>3</sup>

USA. NIOSH Recommended Exposure Limits

Potential Occupational Carcinogen See Appendix C See Appendix A See Table Z-2 TWA 50.000000 ppm USA.

Occupational Exposure Limits

(OSHA) - Table Z-2 Z37.21-1969 CEIL 100.000000 ppm

USA. Occupational Exposure Limits (OSHA) - Table Z-2

Z37.21-1969 Peak 200.000000 ppm

USA. Occupational Exposure Limits (OSHA) - Table Z-2

Z37.21-1969

**Appropriate engineering controls** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

### **Personal protective equipment**

**Eye/face protection** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Full contact Material:** Fluorinated rubber Minimum layer thickness: 0.7 mm

**Break through time:** 480 min **Material tested:** Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 62 min Material tested: Butoject® (KCL 897 / Aldrich Z677647, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

- a) Appearance Form: clear, liquid Colour: colourless
- b) Odour No data available
- c) Odour Threshold No data available
- d) pH No data available
- e) Melting point/freezing point: -35 °C (-31 °F) - lit.
- f) Initial boiling point and boiling range 83 °C (181 °F) - lit.
- g) Flash point 13.0 °C (55.4 °F) - closed cup - Tested according to Annex V of Directive 67/548/EEC.
- h) Evaporation rate No data available
- i) Flammability (solid, gas) No data available
- j) Upper/lower flammability or explosive limits  
Upper explosion limit: 16.2 %(V) Lower explosion limit: 6.2 %(V)
- k) Vapour pressure 33.3 hPa (25.0 mmHg) at 0 °C (32 °F)  
86 hPa (65 mmHg) at 20 °C (68 °F) - Tested according to Annex V of Directive 67/548/EEC. 312 hPa (234 mmHg) at 50 °C (122 °F)
- l) Vapour density No data available
- m) Relative density 1.256 g/mL at 25 °C (77 °F) - lit.
- n) Water solubility 8.69 g/l at 20 °C (68 °F) - Tested according to Annex V of Directive 67/548/EEC. - slightly soluble 10.3 g/l at 56 °C (133 °F)
- o) Partition coefficient: n-octanol/water log Pow: 1.48 at 20 °C (68 °F) - Tested according to Annex V of Directive 67/548/EEC.
- p) Auto-ignition temperature  
413.0 °C (775.4 °F)
- q) Decomposition temperature No data available
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

### Other safety information

Surface tension 32.9 mN/m at 15 °C (59 °F) 32.2 mN/m at 20 °C (68 °F) 30.8 mN/m at 30 °C (86 °F)

## 10. STABILITY AND REACTIVITY

**Reactivity** No data available

**Chemical stability** Stable under recommended storage conditions.

**Possibility of hazardous reactions** Vapours may form explosive mixture with air.

**Conditions to avoid** Heat, flames and sparks.

**Incompatible materials** Strong oxidizing agents

**Hazardous decomposition products**

Other decomposition products - No data available In the event of fire: see section 5

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

Acute toxicity LD50 Oral - Rat - 670.0 mg/kg

LC50 Inhalation - Rat - 4 h - 3.879 mg/l

LD50 Dermal - Rabbit - 2,800 mg/kg Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Lacrimation.

No data available

Skin corrosion/irritation Skin - Rabbit Result: irritating - 72 h (Draize Test)

Serious eye damage/eye irritation Eyes - Rabbit Result: Moderate eye irritation

**Respiratory or skin sensitisation No data available**

Germ cell mutagenicity Laboratory experiments have shown mutagenic effects.

Ames test *S. typhimurium* Result: positive

**Carcinogenicity**

Carcinogenicity - Rat - Oral Tumorigenic: Carcinogenic by RTECS criteria. Gastrointestinal: Tumors. Skin and Appendages: Other: Tumors.

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC: 2B - Group 2B: Possibly carcinogenic to humans

NTP: Reasonably anticipated to be a human carcinogen

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity No data available**

Reproductive toxicity - Rat - Inhalation Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

No data available

**Specific target organ toxicity - single exposure May cause respiratory irritation.**

**Specific target organ toxicity - repeated exposure No data available**

**Aspiration hazard No data available**

**Additional Information RTECS: KI0525000**

Acts as a simple asphyxiant by displacing air., anesthetic effects, Difficulty in breathing, Headache, Dizziness, Prolonged or repeated contact with skin may cause:, defatting, Dermatitis, Contact with eyes can cause:, Redness, Blurred vision, Provokes tears., Effects due to ingestion may include:, Gastrointestinal discomfort, Central nervous system depression, Paresthesia., Drowsiness, Convulsions, Conjunctivitis., Pulmonary edema. Effects may be delayed., Irregular breathing., Stomach/intestinal disorders, Nausea, Vomiting, Increased liver enzymes., Weakness, Heavy or prolonged skin exposure may result in the absorption of harmful amounts of material. Pancreas. -

**12. ECOLOGICAL INFORMATION**

**Toxicity**

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 225.00 mg/l - 96 h

NOEC - *Cyprinodon variegatus* (sheepshead minnow) - 130 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 - *Daphnia magna* (Water flea) - 540.00 mg/l - 24 h

Immobilization EC50 - *Daphnia magna* (Water flea) - 160 mg/l - 48 h

**Persistence and degradability**

Biodegradability Biotic/Aerobic - Exposure time 21 d

Result: < 20 % - Not readily biodegradable. Remarks: Not applicable

**Bioaccumulative potential**

Bioconcentration factor (BCF): 2

**Mobility in soil**

No data available

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

No data available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

Dispose of in accordance with local, state and federal regulations.

**14. TRANSPORT INFORMATION**

UN Number 1992

Proper Shipping Name Flammable Liquid Toxic N.O. S (Chlorinated Hydrocarbon)

Class 8 (6.1) PG II

**15. REGULATORY INFORMATION**

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**16. OTHER INFORMATION**

Date of last revision: 06/21/2022

Sections altered or reviewed include: all

**NOTICE**

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and here fore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.