

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier(s): PolyCoat Semi-Permanent Sealer and Release Agent

Product Code(s): POLYCOAT
 UFI: ES60-A06V-200D-AW41

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against: Release agent for mold making and casting. For Industrial/Professional use only.

1.3 Details of the Supplier of the Safety Data Sheet

Manufacturer: Polytek Development Corp.
 55 Hilton St., Easton, PA 18042 USA
 Phone: 800-858-5990 (8 a.m. to 6:30 p.m. EST)
 E-mail: sds@polytek.com

1.4 Emergency Telephone Number: Phone: 800-858-5990 (8 a.m. to 6:30 p.m. EST)

National Poison Center Phone Numbers:

Estonia: Health Board: +372 794 3500

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Germany: BfR Bundesinstitut für Risikobewertung: +49-30-18412-0

Nur für professionelle Notfallhelfer im Katastrophenfall.

The Netherlands: N.V.I.C. (Nationaal Vergiftigingen Informatie Centrum): +31 88 75 580 00

Alleen voor professionele hulpverleners in geval van calamiteiten.

Portugal: Centro de informação antivenenos: +351213303271

Apenas para socorristas profissionais em caso de calamidades.

Spain: Instituto Nacional de Toxicología y Ciencias Forenses (INTCF): +34 917689800

Solo para personal profesional de respuesta a emergencias en caso de calamidades.

Section 2: Hazards Identification

2.1 Classification of the Substance or Mixture:

CLP/GHS (No 1272/2008): Flammable Liquid – Category 2
 Skin Irritation – Category 2
 Reproductive Toxin – Category 2
 Specific Target Organ Toxicity – Single Exposure Category 3
 Specific Target Organ Toxicity – Repeated Exposure Category 2
 Aspiration Hazard – Category 1

2.2 Label Elements: Danger



Hazard Phrases

H225 Highly flammable liquid and vapor.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H361 Suspected of damaging fertility or the unborn child.
 H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Phrases

P203 Obtain, read and follow all safety instructions before use.
 P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
 P233 Keep container tightly closed.
 P240 Ground and bond container and receiving equipment.
 P241 Use explosion-proof electrical and ventilation equipment.
 P242 Use only non-sparking tools.
 P243 Take action to prevent static discharges.
 P260 Do not breathe fumes, vapors, mists or sprays.

- P264 Wash skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves, protective clothing, eye protection and face protection.
 P301+P316 IF SWALLOWED: Get emergency medical help immediately.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water or shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P318 IF exposed or concerned, get medical advice.
 P319 Get medical help if you feel unwell.
 P331 Do NOT induce vomiting.
 P332+P317 If skin irritation occurs: Get medical help.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P370+P378 In case of fire: Use carbon dioxide (CO₂), powder or water spray to extinguish.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents and container in accordance with local, regional and national regulations.

2.3 Other Hazards:

Based on available data, not considered to meet the criteria of PBT, vPvB.

Based on available data, does not contain components with endocrine disrupting properties.

Section 3: Composition/Information on Ingredients

3.2 Mixtures

Chemical Name	CAS #	EC #	CLP Classification	%
Naphtha (petroleum), Light Alkyate	64741-66-8	921-728-3	Flammable Liquid – Cat. 2 (H225) Skin Irritation – Cat. 2 (H315) STOT – Single Exposure – Cat. 3 (H336) Aspiration Hazard – Cat. 1 (H304) Acute Hazard – Chronic – Cat. 2 (H411)	80-100
Toluene	108-88-3	686-236-0	Flammable Liquid – Cat. 2 (H225) Skin Irritation – Cat. 2 (H315) STOT – Single Exposure – Cat. 3 (H336) STOT – Repeated Exposure – Cat. 2 (H373) Reproductive Toxicity – Cat. 2 (H361d) Aspiration Hazard – Cat. 1 (H304)	0-10
Exact concentrations are withheld as trade secret. Other ingredients are not listed because they are either not hazardous or are below concentration/cut-off thresholds.				

Section 4: First-Aid Measures

4.1 Description of First Aid Measures:

Eye: Rinse thoroughly with water, holding the eyelids open to be sure the material is washed out. Remove contact lenses if safe and easy to do so and continue rinsing. Get medical attention if irritation develops or persists.

Skin: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation develops or persists.

Inhalation: Remove person to fresh air. Get medical attention if symptoms develop or persist.

Ingestion: Do not induce vomiting. Get medical attention immediately.

4.2 Most Important symptoms and effects, both acute and delayed: May be fatal if swallowed and enters airways.

4.3 Indication of any immediate medical attention and special treatment needed: Get medical attention immediately if swallowed.

Section 5: Fire-Fighting Measures

5.1 Suitable Extinguishing Media: Use carbon dioxide (CO₂), extinguishing powder or water spray.

Unsuitable Extinguishing Media: Do not use solid water stream. Solid stream of water into hot product may cause violent steam generation or eruption.

5.2 Special Hazards Arising from the Substance or Mixture

Unusual Fire and Explosion Hazards: Highly flammable liquid and vapor.

Combustion Products: Oxides of carbon and nitrogen, hydrogen cyanide, dense smoke.

- 5.3 Advice for Fire-Fighters:** Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

6.1.1: Non-Emergency Personnel: Remove all ignition sources. Clear other non-emergency personnel from the area. Wear appropriate protective clothing to avoid eye and skin contact and avoid breathing of vapors. Ventilate area. Caution – spill area may be slippery.

6.1.2: Emergency Personnel: Remove all ignition sources. Clear non-emergency personnel from the area. Wear appropriate protective clothing to avoid eye and skin contact and avoid breathing of vapors. Ventilate area. Caution – spill area may be slippery.

6.2 Environmental Precautions:

Avoid release to the environment. Report spills and releases as required to appropriate authorities.

6.3 Methods and Material for Containment and Cleaning Up:

6.3.1: Containment: Cover with an inert absorbent material and collect into an appropriate container for disposal. Use non-sparking tools.

6.3.2: Clean-up: Decontaminate floor area with a mixture of water plus isopropyl alcohol (20%), household ammonia (10%), and detergent (2%).

6.3.3: Other Information: No additional information available.

6.4 Reference to Other Sections:

Refer to Section 8 for protective clothing and Section 13 for disposal

Section 7: Handling and Storage

7.1 Precautions for Safe Handling: Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep container closed when not in use.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store indoors at room temperature in a well-ventilated area away from ignition sources. Avoid contact with water, strong acids, oxidizers, and alkalis.

7.3 Specific end use(s): Mold release agent.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters:

Occupational Exposure Limits:

Chemical Name	Occupational Exposure Limit
Toluene	192 mg/m ³ (50 ppm) – TWA; 384 mg/m ³ (100 ppm) – STEL (European Union)
	76.8 mg/m ³ (20 ppm) – TWA; 384 mg/m ³ (100 ppm) – STEL (France)
	190 mg/m ³ (50 ppm) – TWA; 380 mg/m ³ (100 ppm) – STEL (Germany AGS and DFG)
	192 mg/m ³ (50 ppm) – TWA (Italy)
	100 mg/m ³ – TWA; 200 mg/m ³ – STEL (Poland)
	192 mg/m ³ (50 ppm) – TWA; 384 mg/m ³ (100 ppm) – STEL (Romania)
	192 mg/m ³ (50 ppm) – TWA; 384 mg/m ³ (100 ppm) – STEL (Spain)
	150 mg/m ³ (39 ppm) – TWA; 384 mg/m ³ (100 ppm) – STEL (The Netherlands)
	191 mg/m ³ (50 ppm) – TWA; 384 mg/m ³ (100 ppm) – STEL (United Kingdom)

Biological Exposure Index: No data available.

Derived No Effect Level (DNEL):

Chemical Name	DNEL
Naphtha (petroleum), Light Alkyate	2035 mg/m ³ (inhalation, systematic)
Toluene	192 mg/m ³ (inhalation, local and systematic)

Predicted No Effect Concentration (PNEC): No data available.

8.2 Exposure Controls:

8.2.1: Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. An eyewash facility and washing facility should be available in the work area.

8.2.2: Individual Protection Measures

(a) Eye/Face Protection: Wear chemical safety goggles.

(b) Skin Protection:

(i) **Hand Protection:** Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Suggested gloves are impervious and made of butyl rubber or nitrile rubber with a breakthrough time greater than 240 minutes with a protection class of 5 or higher and a thickness greater than 0.35 mm.

(ii) **Protective Clothing:** Wear impervious clothing of compatible material such as cotton to prevent skin contact and contamination of personal clothing.

(c) **Respiratory Protection:** If needed, an approved respirator with organic vapor cartridges may be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

(d) **Thermal Hazards:** Highly flammable liquid and vapour.

8.2.3. Environmental Exposure Controls: No information available.

Section 9: Physical and Chemical Properties

9.1 Information on basic Physical and Chemical Properties

(a) **Physical State:** Liquid

(b) **Colour:** Clear

(c) **Odour:** Paraffinic

(d) **Melting Point/Freezing Point:** Product not tested for melting point or freezing point.

(e) **Boiling Point or Initial Boiling Point and Boiling Range:** 240-280°F/116-138°C

(f) **Flammability:** Not applicable

(g) **Lower and Upper Explosion Limit:** Product not tested for lower and upper explosion limit

(h) **Flash Point:** <23°C (73°F) (C.O.C.)

(i) **Auto-Ignition Temperature:** Product not tested for auto-ignition temperature

(j) **Decomposition Temperature:** Product not tested for decomposition temperature

(k) **pH:** Not applicable

(l) **Kinematic Viscosity:** <15 cps @ 25°C

(m) **Solubility:** Insoluble in water

(n) **Partition Coefficient n-Octanol/Water (log value):** Reacts with water

(o) **Vapour Pressure:** >1 (butyl acetate=1)

(p) **Density and/or Relative Density:** 0.73 @ 25°C

(q) **Relative Vapour Density:** >1 (air=1)

(r) **Particle Characteristics:** Product not tested for particle characteristics

9.2 Other Information:

9.2.1. Information With Regard to Physical Hazard Classes:

(a) **Explosive Properties:** Not explosive

(b) **Oxidizing Properties:** Not oxidizing

9.2.2. Other Safety Characteristics: % Volatiles (VOC): ~90

Section 10: Stability and Reactivity

10.1 Reactivity: Not normally reactive.

10.2 Chemical Stability: Stable under recommended conditions.

10.3 Possibility of Hazardous Reactions: Under recommended conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to Avoid: Avoid excessive heat, sparks, flames and ignition sources. Avoid moisture.

10.5 Incompatible Materials: Avoid contact with water, strong acids, oxidizers, and alkalis.

10.6 Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, silicon oxides, and formaldehyde.

Section 11: Toxicological Information

(a) **Acute Toxicity:**

Oral: Not acutely toxic

Dermal: Not acutely toxic

Inhalation: Not acutely toxic

(b) Skin Corrosion/Irritation: Causes skin irritation.

(c) Serious Eye Damage/Irritation: Causes mild eye irritation.

(d) Respiratory or Skin Sensitization: No data available.

(e) Germ Cell Mutagenicity: Components are not classified as mutagens.

(f) Carcinogenicity: Components are not classified as carcinogens.

(g) Reproductive Toxicity: Suspected of damaging fertility or the unborn child.

(h) STOT-Single Exposure: May cause respiratory irritation, drowsiness, or dizziness.

(i) STOT-Repeated Exposure: May cause damage to organs through prolonged or repeated exposure.

(j) Aspiration Hazard: May be fatal if swallowed or enters airways.

11.2 Information on Other Hazards: Based on available data, does not contain substances with endocrine disrupting properties.

Section 12: Ecological Information

12.1 Toxicity: No data available. Avoid release to the environment.

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB Assessment: No data available.

12.6 Endocrine Disrupting Properties: Based on available data, does not contain substances with endocrine disrupting properties.

12.7 Other Adverse Effects: No data available.

Section 13: Disposal Considerations

13.1 Waste Treatment Methods:

Waste From Residues/Unused Products: Waste is classified as hazardous. Dispose of in accordance with European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging: Dispose of this container to a hazardous or special waste collection point.

European Waste Catalogue (EWC): According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Other Information: Do not flush to sewer or empty into drains. Waste Codes should be assigned by the user based on the application for which the product was used.

Section 14: Transport Information

14.1 UN Number: UN1866

14.2 UN Proper Shipping Name: Resin solution

14.3 Transport Hazard Class(es): 3

14.4 Packing Group: III

14.5 Environmental Hazards: Marine Pollutant.

14.6 Special Precautions for User: Keep away from sources of heat.

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Section 15: Regulatory Information

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

The mixture or substance is not subject to Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer, Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC, and Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals.

REACH: Substances in this formulation imported to EU in >1 tonne/yr are registered.

REACH Restriction:

These products do not contain SVHCs.

International Inventories: To be determined.

15.2 Chemical Safety Assessment: A Chemical Safety Assessment has not been conducted.

Section 16: Other Information

SDS Revision Note: First EU-version SDS for these products: December 1, 2022; Revised for CLP compliance: August 7, 2023

Abbreviations and Acronym Key:

AGS: Committee on Hazardous Substances

Canadian TDG: Canadian Transportation of Dangerous Goods

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

EU ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR)

DFG: German Research Foundation (Deutsche Forschungsgemeinschaft)

DNEL: Derived No Effect Limit

GHS: Globally Harmonized System

IATA/ICAO: International Air Transport Association

IBC Code: International Bulk Chemical Code

IMDG: International Maritime Dangerous Goods

MARPOL: Marine Pollution

OEL: Occupational Exposure Limit

PBT: Persistence Bioaccumulation and Toxicity.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

SDS: Safety Data Sheet

STOT: Specific Target Organ Toxicity

SVHC: Substance of Very High Concern

vPvB: very Persistent and very Bio-accumulative

UFI: Unique Formula Identifier

US DOT: United States Department of Transportation

Key Literature References and Sources of Data: Raw material safety data sheets and internal sources.

Method of Evaluating Information Referred to in Article 9 of Regulation (EC) No 1272/2008: Calculation method was utilized.

Hazard and Precautionary Statements:

Hazard Phrases

- H225 Highly flammable liquid and vapor.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.

Additional Hazard Phrases from Section 3.2

- H411 Toxic to aquatic life with long lasting effects.

Precautionary Phrases

- P203 Obtain, read and follow all safety instructions before use.
- P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground and bond container and receiving equipment.

- P241 Use explosion-proof electrical and ventilation equipment.
P242 Use only non-sparking tools.
P243 Take action to prevent static discharges.
P260 Do not breathe fumes, vapors, mists or sprays.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, eye protection and face protection.
P301+P316 IF SWALLOWED: Get emergency medical help immediately.
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P362+P364 Take off contaminated clothing and wash it before reuse.
P370+P378 In case of fire: Use carbon dioxide (CO₂), powder or water spray to extinguish.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents and container in accordance with local, regional and national regulations.

Training Advice: All personnel using/handling this product should be trained in proper chemical handling and the need for and use of engineering controls and protective equipment.

Disclaimer: The information contained herein is considered accurate; however, Polytek® Development Corp. makes no warranty regarding the accuracy of the information. The user must determine the suitability of the product for the intended use and accepts all risk and liability associated with that use.