

1. PRODUCT AND COMPANY INFORMATION

- 1.1 Product Identifier:** OBEX Perfect Patch® Part B
Chemical Family: Resin Synonyms: Urethane System Resin Component
- 1.2 Relevant Identified Uses of the Substance or Mixture:** Polyurethane component industrial chemicals. Suitable for use in industrial sector, construction industry, chemical industry
- 1.3 Supplier of the SDS:** OBEX Co. | 740 N 5th Street | Jacksonville, OR 97530 | Phone: 844-265-3535 | www.obexco.com
- 1.4 Emergency Phone Number: For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night 1-800-424-9300 / +1 703-527-3887**

2. HAZARDS IDENTIFICATION

2.1 GHS Classification of the substance or mixture:

Aspiration Toxicity (Category 1)
Flammable Liquid (Category 4), H315
Skin sensitizer (Category 1B), H317
Respiratory sensitization (Category 1), H332
Serious eye damage/eye irritation (Category 2A), H318
Acute toxicity, inhalation (Category 4), H373
Aquatic Chronic (Category 3), H412; ; Aquatic Acute (Category 3), H402

2.2 GHS Label elements, including precautionary statements:

2.2.1 Hazard Pictogram:

GHS08
GHS07



2.2.2 Signal Word:

Danger

2.2.3 Hazard statements:

H227: Combustible liquid
H303 + H333: May be harmful if swallowed or if inhaled
H312: Harmful if in contact with skin
H315 + H317: May cause skin irritation or an allergic skin reaction
H318 + H320: Causes eye irritation and serious eye damage
H335 + H332: Harmful if inhaled and may cause respiratory irritation
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H373: May cause damage to olfactory organs through prolonged or repeated inhalation exposure.
H402 + H412: Harmful to aquatic life with long lasting effects.

2.2.4 Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P210+P202: Obtain special instructions prior to use; do not handle until all safety precautions have been read and understood.
P260 + 261: Do not breath dust/gas/mist/vapors, avoid breathing mist.
P264: Wash skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release into the environment.
P280: Wear protective gloves/protective clothing/eye protection.
P284: In case of inadequate ventilation wear respiratory protection.
P301+312: IF SWALLOWED: Rinse mouth. Call a doctor/ physician if you feel unwell.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P332 + P333 + P313: If skin irritation or rash occurs, get medical attention/advice.
P333 + P363: If skin irritation or rash occurs, wash contaminated clothing before re-use.
P304 + P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311 + P314: IF EXPOSED OR CONCERNED: Call a POISON CENTER or doctor/physician. Seek medical attention or advice if you feel unwell.
P337 + P311: If eye irritation persists, call a POISON CENTER or doctor/physician.

P391+ P501

Collect spillage and always dispose of contents/container in accordance with local/regional/national international regulations. Dispose of contents/container to hazardous or special waste collection point.

P403 + P405 + P233:

Store in a well-ventilated place, locked up. Keep container tightly closed.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS: No specific dangers known, if the regulations/notes for storage and handling are considered.

2.4 Unknown Acute Toxicity: No data available.

3. COMPOSITION INFORMATION ON INGREDIENTS

3.1 Substances:

Component	Product Identifier	Concentration	GHS Classification
Tetrahydroxypropylethylenediamine	102-60-3	>= 25.0 - < 50.0 %	See Section 2.1 for details
calcium oxide	1305-78-8	>= 0.0 - < 0.2 %	See Section 2.1 for details
Propanoicacid,2-methyl-,2,2-dimethyl-1-(1-methylethyl)- 1,3- propanediyl ester	6846-50-0	>=3.0-<5.0 %	See Section 2.1 for details
Solvent naphtha (petroleum), heavy aliph.	64742-96-7	>= 0.0 - < 15.0 %	See Section 2.1 for details
Distillates (petroleum), hydrotreated light	64742-47-8	>= 0.0 - < 15.0 %	See Section 2.1 for details

4. FIRST AID MEASURES

4.1 Description of first aid measures: General advice: First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways positions (recover position). Immediately remove contaminated clothing. **If inhaled:** Keep patient calm, remove to fresh air, seek medical attention. **If on skin:** Immediately wash thoroughly with soap and water, see medical attention. **If in eyes:** Wash affected areas for at least 15 minutes under running water with eyelids held open, consult an eye specialist. **If swallowed:** Rinse mouth and then drink 200 – 300 ml of water, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed: Symptoms: See labeling section 2.2.
Hazards: None anticipated.

4.3 Indication of any immediate medical attention and special treatment needed: Promptly seek medical attention if exposure occurs. Treat exposure symptomatically.

5. FIREFIGHTING MEASURES

5.1 Suitable Extinguishing Media: For large fires use water spray, alcohol-resistant foam, carbon dioxide (CO₂), or dry chemicals.

5.2 Special hazards arising from the substance or mixture: Hazards during fire-fighting: None known.

5.3 Advice for firefighters: Protective equipment for fire-fighting: Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

5.4 Further information: Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment. High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions: Do not discharge into drains/surface waters/groundwater.

6.3 Methods and materials for containment and cleaning up: Spills should be contained, solidified, and placed in suitable containers for disposal.

6.4 Reference to other sections: For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling: Ensure thorough ventilation of stores and work areas. Protect against moisture.

7.2 Conditions for safe storage, including any incompatibilities: Segregate from foods and animal feeds. Segregate from acids. Segregate from oxidants. **Suitable materials for containers:** carbon steel (iron), High density polyethylene (HDPE), Low density polyethylene (LDPE, Stainless steel 1.4301 (V2) Avoid extreme heat. Store protected against freezing. Storage temperature: 64 - 84°F (18 - 29 °C)

7.3 Protection against fire and explosion: No explosion proofing necessary.

7.4 Specific end use(s): See section 1.2.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Measures and Engineering Controls:

Components with occupational exposure limits:		
calcium oxide	OSHA PEL	PEL 5 mg/m3 ; TWA value 5 mg/m3
	ACGIH TLV	TWA value 2 mg/m3
Distillates (petroleum), hydrotreated light	ACGIH TLV	TWA value 200 mg/m3 Non-aerosol (total hydrocarbon vapor); Application restricted to conditions in which there are negligible aerosol exposures. Skin Designation Non-aerosol (total hydrocarbon vapor); The substance can be absorbed through the skin.

Advice on system design: Provide local exhaust ventilation to maintain recommended P.E.L.

8.2 Individual Protection Measures: **Respiratory protection:** Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator as needed. **Hand protection:** Chemical resistant protective gloves. **Eye protection:** Wear face shield or tightly fitting safety goggles (chemical goggles) if splashing hazard exists. **Body protection:** Standard work clothes and shoes. **General safety and hygiene measures:** Avoid contact with skin. Handle in accordance with good industrial hygiene and safety practice. Wear protective clothing as necessary to prevent contact. Avoid inhalation of vapors/mists. Wash soiled clothing immediately.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical and Chemical Properties:

Appearance: liquid	Color: tan to brown
Odor: phenol-like	Vapor pressure 0.52 mmHg 68°F (20.00 °C)
Odor threshold: not applicable	Vapor density (AIR=1): No applicable information available
pH: 7.0	Density: 8.2000 lb/USg 77°F (25.00 °C)
Melting point/freezing point: < 0°C (32°F)	Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.
Initial boiling point: 340°F (171.00 °C) (> 20.000000 mmHg)	Partition coefficient: n-octanol/water: not applicable
Flash point: >141.8°F (>61.00°C) Closed Cup	Auto-ignition temperature: 449°F (232.00° C)
Evaporation rate: Value can be approximated from Henry's Law Constant or vapor pressure.	Viscosity, dynamic: 300.000 mPa.s (cps) 77°F (25.00 °C)
Flammability: Flammable liquid	Viscosity, kinematic: No applicable information available.
Self-ignition temperature: not self-igniting.	Solubility/Miscibility in water: Slightly soluble.
Solubility (qualitative/quantitative): No applicable information available	Upper/lower flammability or explosive limits: For liquids not relevant for classification and labeling. The lower explosion point may be 41 - 59°F (5 - 15°C) below the flash point.

10. STABILITY AND REACTIVITY

- 10.1 General:** The product is stable if stored and handled as prescribed/indicated.
- 10.2 Conditions to Avoid:** Avoid moisture, temperatures <32 degrees Fahrenheit (<0 degrees Celsius)
- 10.3 Incompatible Material:** Acids, oxidizing agents, isocyanates
- 10.4 Hazardous decomposition products:** carbon monoxide, carbon dioxide, nitrogen oxide, hydrogen cyanide. **Thermal decomposition:** No decomposition if stored and handled as prescribed/indicated.
- 10.5 Possibility of hazardous reactions:** No hazardous reactions if stored and handled as prescribed/indicated

11. TOXICOLOGICAL INFORMATION

- 11.1 Likely routes of exposure:** Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.
- 11.2 Acute Toxicity/Effects:** No known acute effects. **Oral:** No applicable information available. Inhalation No applicable information available. **Dermal** No applicable information available. **Assessment of STOT single:** Based on the available information there is no specific target organ toxicity to be expected after a single exposure. Origin of data: expert judgement. **Irritation / corrosion:** Eye contact causes irritation. **Sensitization:** The chemical structure does not suggest a sensitizing effect. No applicable information available. **Aspiration Hazard:** May also damage the lung at swallowing (aspiration hazard).
- 11.3 Chronic Toxicity/Effects: Repeated dose toxicity:** Repeated oral uptake of the substance did not cause substance-related effects. Repeated inhalative uptake of the substance did not cause substance-related effects. Repeated dermal uptake of the substance did not cause substance-related effects.

- 11.4 **Genetic toxicity:** The chemical structure does not suggest a specific alert for such an effect. No applicable information available.
- 11.5 **Carcinogenicity:** The chemical structure does not suggest a specific alert for such an effect. No applicable information available.
- 11.6 **Reproductive toxicity:** The chemical structure does not suggest a specific alert for such an effect. No applicable information available.
- 11.7 **Teratogenicity:** The chemical structure does not suggest a specific alert for such an effect. No applicable information available.
- 11.8 **Other Information:** The product has not been tested. The statement has been derived from the properties of the individual components.
- 11.9 **Symptoms of Exposure:** The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Eye irritation, skin irritation, allergic symptoms
- 11.10 **Medical conditions aggravated by overexposure:** Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product.

12. ECOLOGICAL INFORMATION

- 12.1 **Aquatic Toxicity:** Acutely harmful for aquatic organisms. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.
- 12.2 **Persistence and degradability:** Assessment biodegradation and elimination (H₂O): Poorly biodegradable. **Elimination information:** Poorly biodegradable.
- 12.3 **Bioaccumulative potential:** Does not significantly accumulate in organisms.
- 12.4 **Mobility in soil:** Adsorption to solid soil phase is not expected.
- 12.5 **Additional Information:** Adsorbable organically-bound halogen (AOX): This product contains no organically-bound halogen. The product has not been tested. Do not discharge product into the environment without control.

13. DISPOSAL CONSIDERATIONS

- 13.1 **Safe Handling and Methods of disposal of waste residues, including disposal of any contaminated package:** Dispose of in a licensed facility. Do not discharge substance/product into sewer system. Large quantities should be recovered. Collect small quantities in waste metal drums and seal for removal to an approved landfill and/or disposal in accordance with local, state, and federal regulations.
- 13.2 **Safe Handling:** Follow steps at section 8 for disposal, including using a ventilation system and wearing protective gloves and goggles.

14. TRANSPORT INFORMATION

- 14.1 **UN number:** NA
- 14.2 **Land Transport: US DOT:** Classified as combustible liquid in containers greater than 119 gallons.
- 14.3 **Sea Transport: IMDG:** Not classified as a dangerous good under transport regulations
- 14.4 **Air Transport: IATA/ICAO:** Not classified as a dangerous good under transport regulations
- 14.5 **Transport hazard class(es):** NA
- 14.6 **Packing group:** NA
- 14.7 **Marine pollutant:** No data available
- 14.8 **Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** NA

15. REGULATORY INFORMATION

- 15.1 **Federal Regulations: Registration status:** Chemical TSCA, US released / listed
EPCRA 311/312 (Hazard categories): Acute; Fire
- 15.2 **State regulations: State RTK**

MA, NJ, PA	CAS# 64742-47-8	Distillates (petroleum), hydrotreated light
MA, NJ, PA	CAS# 1305-78-8	calcium oxide
- 15.3 **CA Prop. 65:** THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

16. OTHER INFORMATION

- 16.1 **NFPA Hazard Classification:**

Health: 2	Flammability: 1	Reactivity: 1	Other: N/A
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- 16.2 **HMIS III rating:** Health : 2 Flammability: 2 Physical Hazard: 1
- 16.3 **Disclaimer:** The facts and recommendations contained herein are based on our own research and the research of others, and are believed to be accurate. No guarantee of their accuracy is made as we cannot cover every possible application for our products, nor anticipate variations encountered in manufacturing equipment and methods. OBEX urges users of this product to evaluate its suitability and compliance with all applicable laws and regulations.
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