

# Surf Clear Ding Repair Resin

## Pro Clear UV-Cure Resin System

Prepared under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, as revised in 2024 (United States).



### 1 Identification

|                                      |                                                                                                                                                                                                               |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product identifiers</b>           | Surf Clear Ding Repair Resin (2 oz tube, sample tubes, Surf Ding Kit)<br>Pro Clear UV-Cure Resin System (8 oz and 16 oz jars)                                                                                 |
| <b>Other means of identification</b> | Torrey Labs Surf Clear, LightSet™ formula, and Torrey Labs Pro Clear, MesaCure™ formula (one resin, two names). Lot codes start with SC (Surf Clear) or PC (Pro Clear).                                       |
| <b>Product type</b>                  | Mixture: a one-part resin that hardens under ultraviolet (UV) light, including sunlight.                                                                                                                      |
| <b>Recommended use</b>               | Repairing surfboards with polyurethane (PU) foam cores and polyester laminates.                                                                                                                               |
| <b>Restrictions on use</b>           | For adult use. Not for cosmetic, nail, dental or food-contact use.                                                                                                                                            |
| <b>Responsible party</b>             | Torrey Labs, 2108 N St #13699, Sacramento, CA 95816, USA<br>Phone (858) 977-6369 · torreylabs.org                                                                                                             |
| <b>Emergency telephone</b>           | <b>Poison Control: 1-800-222-1222</b> (24 hours, United States) for exposure or swallowing.<br>Fire or a large spill: call 911. Product questions: Torrey Labs, (858) 977-6369, business hours, Pacific time. |

### 2 Hazard(s) identification

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Classification</b>                       | Skin corrosion/irritation, Category 2<br>Serious eye damage/eye irritation, Category 2A<br>Skin sensitization, Category 1<br>Also shown for information (not an OSHA hazard class): hazardous to the aquatic environment, acute, Category 3.                                                                                                                                                                                                                              |
| <b>Pictogram</b>                            | Exclamation mark (GHS07)                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Signal word</b>                          | <b>Warning</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Hazard statements</b>                    | H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H319 Causes serious eye irritation.<br>H402 Harmful to aquatic life.                                                                                                                                                                                                                                                                                                                         |
| <b>Precautionary statements: prevention</b> | P261 Avoid breathing vapors, mist or spray.<br>P264 Wash hands, forearms and other exposed areas thoroughly after handling.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P273 Avoid release to the environment.<br>P280 Wear protective gloves, protective clothing and eye protection.                                                                                                                                              |
| <b>Response</b>                             | P302+P352 IF ON SKIN: Wash with plenty of water.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P321 Specific treatment: see Section 4.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.<br>P337+P313 If eye irritation persists: Get medical advice/attention.<br>P362+P364 Take off contaminated clothing and wash it before reuse. |
| <b>Storage</b>                              | None required by classification. See Section 7.                                                                                                                                                                                                                                                                                                                                                                                                                           |

|                                         |                                                                                                                                                       |
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| <b>Disposal</b>                         | P501 Dispose of contents and container in accordance with local, state and federal regulations.                                                       |
| <b>Hazards not otherwise classified</b> | None known.                                                                                                                                           |
| <b>Other information</b>                | Exposure may aggravate existing eye, skin or respiratory conditions. Once a person is sensitized, even small later contact can cause a skin reaction. |

### 3 Composition/information on ingredients

| Chemical name                                                                                                                                             | CAS number  | % by weight | Classification                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|--------------------------------------------|
| 2-Hydroxyethyl methacrylate (HEMA)                                                                                                                        | 868-77-9    | 15-40       | Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1 |
| Phenylbis(2,4,6-trimethylbenzoyl)phosphine oxide (photoinitiator)                                                                                         | 162881-26-7 | < 5         | Skin Sens. 1 (also Aquatic Acute 1)        |
| Urethane acrylate polymer: 2-propenoic acid, 2-hydroxyethyl ester, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane and a polyol | 73297-29-7  | 1.6-1.98    | Eye Irrit. 2A                              |

Ranges are those given in the resin manufacturer's data, which lists no other hazardous ingredient.

### 4 First-aid measures

|                                                          |                                                                                                                                                                                                                                                                                                                                |
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| <b>General</b>                                           | If you feel unwell, get medical advice and show the label or this sheet. Never give anything by mouth to an unconscious person.                                                                                                                                                                                                |
| <b>Inhalation</b>                                        | Move to fresh air. Get medical attention if breathing difficulty persists.                                                                                                                                                                                                                                                     |
| <b>Skin contact</b>                                      | Take off contaminated clothing. Wash the skin with soap and water for at least 15 minutes. Do not use solvents such as alcohol or acetone on skin. Get medical attention if irritation or a rash develops or persists.                                                                                                         |
| <b>Eye contact</b>                                       | Rinse at once with water for at least 15 minutes. Remove contact lenses if present and easy to do, and continue rinsing. Get medical attention.                                                                                                                                                                                |
| <b>Swallowing</b>                                        | Rinse mouth. Do not induce vomiting. Call Poison Control (1-800-222-1222) or get medical attention.                                                                                                                                                                                                                            |
| <b>Most important symptoms and effects</b>               | Skin: redness, pain, swelling, itching, burning, dryness and dermatitis; may cause an allergic skin reaction, which can appear hours to days after contact. Eyes: severe irritation, with redness and swelling of the conjunctiva. Inhalation: prolonged exposure may cause irritation. Swallowing: may cause adverse effects. |
| <b>Immediate medical attention and special treatment</b> | If exposed or concerned, get medical advice. Have the container, label or this sheet at hand.                                                                                                                                                                                                                                  |

### 5 Fire-fighting measures

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| <b>Suitable extinguishing media</b>                          | Water fog or mist, foam, carbon dioxide, dry chemical.                                                                                                                                                                                        |
| <b>Unsuitable extinguishing media</b>                        | A heavy water stream, which may spread the fire.                                                                                                                                                                                              |
| <b>Specific hazards</b>                                      | Not considered flammable, but may burn at high temperatures. Not explosive. Combustion products include acrylates, carbon monoxide, carbon dioxide and phosphorus oxides.                                                                     |
| <b>Protective equipment and precautions for firefighters</b> | Use caution with any chemical fire. Cool exposed containers with water spray or fog. Do not enter the fire area without proper protective equipment, including respiratory protection. Keep fire-fighting runoff out of drains and waterways. |

## 6 Accidental release measures

|                                                                            |                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Avoid contact with skin, eyes and clothing, and avoid breathing vapor, mist or spray. Wear the protection in Section 8. Ventilate the area and keep unnecessary people away.                                                                                                                                                         |
| <b>Environmental precautions</b>                                           | Keep out of drains, sewers and waterways. Avoid release to the environment.                                                                                                                                                                                                                                                          |
| <b>Containment and cleanup</b>                                             | Clean up spills at once. Contain with absorbent material, absorb with an inert material such as sand or vermiculite, and place it in a closed container for disposal (Section 13). A small spill may instead be hardened with sunlight or a UV lamp, then scraped up. Report large spills to the authorities as local rules require. |

## 7 Handling and storage

|                                      |                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions for safe handling</b> | Avoid contact with skin, eyes and clothing. Avoid breathing vapor, mist or spray; work with good ventilation. Wear gloves and eye protection (Section 8). Do not eat, drink or smoke while working. Wash hands and exposed skin with mild soap and water before eating, drinking or smoking and when leaving work. Do not look into a UV curing lamp. |
| <b>Conditions for safe storage</b>   | Keep the cap or lid closed when not in use. Store below 80 °F (27 °C) in a dry place, out of direct sunlight and away from UV light, extreme heat or cold, and incompatible materials. Keep it in the original container; don't mix or store it in bare metal, which can start the cure. Keep away from food and drink and out of reach of children.  |
| <b>Incompatible materials</b>        | Strong acids, strong bases, strong oxidizers.                                                                                                                                                                                                                                                                                                         |

## 8 Exposure controls/personal protection

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|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Occupational exposure limits</b> | None established for the ingredients (OSHA PEL, ACGIH TLV, NIOSH REL, AIHA WEEL).                                                                   |
| <b>Engineering controls</b>         | Good ventilation, especially in confined areas. In workplaces, an emergency eyewash and safety shower should be close to any potential exposure.    |
| <b>Eye and face protection</b>      | Chemical safety goggles.                                                                                                                            |
| <b>Hand protection</b>              | Chemical-resistant gloves, such as nitrile. Change gloves at once if resin gets on them: acrylate monomers can pass through thin disposable gloves. |
| <b>Skin and body protection</b>     | Suitable protective clothing of chemical-resistant material.                                                                                        |
| <b>Respiratory protection</b>       | Wear approved respiratory protection if irritation occurs, ventilation is inadequate or exposure levels are unknown.                                |
| <b>Sanding cured resin</b>          | Wear eye protection and a dust mask (NIOSH N95), and sand with ventilation or outdoors.                                                             |
| <b>Hygiene measures</b>             | Do not eat, drink or smoke when using. Wash hands before eating, drinking or smoking. Wash contaminated clothing before reuse.                      |

## 9 Physical and chemical properties

|                                 |                                                                                    |
|---------------------------------|------------------------------------------------------------------------------------|
| <b>Physical state</b>           | Liquid                                                                             |
| <b>Color</b>                    | Light yellow                                                                       |
| <b>Odor</b>                     | Sweet                                                                              |
| <b>Flammability</b>             | Not considered flammable (Section 5)                                               |
| <b>Particle characteristics</b> | Not applicable (liquid)                                                            |
| <b>Viscosity</b>                | 2,800 mPa·s at 77 °F (25 °C), Brookfield; about 2,460 mm <sup>2</sup> /s kinematic |
| <b>Relative density</b>         | About 1.14 (9.5 lb/gal)                                                            |

|                          |                                                                                                                                                                                                                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>No data available</b> | Melting point/freezing point; boiling point or initial boiling point and boiling range; lower and upper explosion limit/flammability limit; flash point; auto-ignition temperature; decomposition temperature; pH; solubility; partition coefficient n-octanol/water (log value); vapor pressure; relative vapor density. |
| <b>Other</b>             | Hardens on exposure to UV light, including sunlight.                                                                                                                                                                                                                                                                      |

## 10 Stability and reactivity

|                                           |                                                                                                 |
|-------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | No hazardous reactions under normal conditions of use.                                          |
| <b>Chemical stability</b>                 | Stable under the recommended storage and handling conditions.                                   |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur. The resin hardens (cures) under UV light, as intended. |
| <b>Conditions to avoid</b>                | Direct sunlight, extreme heat or cold, incompatible materials.                                  |
| <b>Incompatible materials</b>             | Strong acids, strong bases, strong oxidizers.                                                   |
| <b>Hazardous decomposition products</b>   | Acrylates, carbon monoxide, carbon dioxide, phosphorus oxides.                                  |

## 11 Toxicological information

|                                          |                                                                                                                                                                                          |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Likely routes of exposure</b>         | Skin and eye contact; breathing vapor or mist; swallowing.                                                                                                                               |
| <b>Symptoms</b>                          | See Section 4.                                                                                                                                                                           |
| <b>Acute toxicity</b>                    | Not classified. HEMA: oral LD50 (rat) 5,050 mg/kg; dermal LD50 (rabbit) > 3,000 mg/kg. Photoinitiator (CAS 162881-26-7): oral LD50 (rat) > 2,000 mg/kg; dermal LD50 (rat) > 2,000 mg/kg. |
| <b>Skin corrosion/irritation</b>         | Causes skin irritation (Category 2).                                                                                                                                                     |
| <b>Serious eye damage/irritation</b>     | Causes serious eye irritation (Category 2A).                                                                                                                                             |
| <b>Respiratory or skin sensitization</b> | May cause an allergic skin reaction (skin sensitization, Category 1). Respiratory sensitization: not classified.                                                                         |
| <b>Germ cell mutagenicity</b>            | Not classified.                                                                                                                                                                          |
| <b>Carcinogenicity</b>                   | Not classified. No ingredient is listed as a carcinogen by NTP, IARC or OSHA.                                                                                                            |
| <b>Reproductive toxicity</b>             | Not classified.                                                                                                                                                                          |
| <b>Specific target organ toxicity</b>    | Single exposure: not classified. Repeated exposure: not classified.                                                                                                                      |
| <b>Aspiration hazard</b>                 | Not classified.                                                                                                                                                                          |
| <b>Delayed and chronic effects</b>       | May cause an allergic skin reaction with repeated contact.                                                                                                                               |

## 12 Ecological information

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|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>                   | Harmful to aquatic life. HEMA: fish LC50 (fathead minnow, 96 h) 213–242 mg/L (flow-through) and 227 mg/L; crustacean EC50 380 mg/L; algae ErC50 710 mg/L; crustacean chronic NOEC 24 mg/L. Photoinitiator: fish LC50 (zebrafish, 96 h, semi-static) > 0.09 mg/L. |
| <b>Persistence and degradability</b> | Not established.                                                                                                                                                                                                                                                 |
| <b>Bioaccumulative potential</b>     | Not established for the product. HEMA: BCF (fish) 1.34–1.54; log Pow 0.47.                                                                                                                                                                                       |
| <b>Mobility in soil</b>              | No data available.                                                                                                                                                                                                                                               |
| <b>Other adverse effects</b>         | Avoid release to the environment.                                                                                                                                                                                                                                |

### 13 Disposal considerations

Dispose of contents and containers in accordance with local, state and federal regulations. Do not pour liquid resin into drains, sewers or waterways. Leftover resin and the residue in empty tubes and jars can be hardened in sunlight or under a UV lamp, then disposed of as solid waste where local rules allow. Liquid resin that can't be hardened goes to a household hazardous waste program or a licensed waste hauler.

### 14 Transport information

|                           |                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------|
| US DOT                    | Not regulated as a hazardous material.                                                        |
| IMDG (sea) and IATA (air) | Not regulated.                                                                                |
| Note                      | Shipping descriptions can vary with the mode of transport, quantity, package and destination. |

### 15 Regulatory information

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|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TSCA (US)                                   | All listed ingredients are on the TSCA Inventory. HEMA (868-77-9): active. Urethane acrylate polymer (73297-29-7): active, flag XU. Photoinitiator (162881-26-7): flag PMN. |
| SARA 311/312 hazard categories              | Respiratory or skin sensitization; skin corrosion or irritation; serious eye damage or eye irritation.                                                                      |
| SARA 313, CERCLA, California Proposition 65 | The resin manufacturer's data lists no ingredient on these lists.                                                                                                           |

### 16 Other information

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|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date of preparation | October 27, 2026. Version 1.2: the Surf formula is named LightSet™; Pro Clear keeps MesaCure™ (same resin). Hazard information is unchanged from version 1.0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Basis               | Prepared by Torrey Labs from the resin manufacturer's safety data sheet (version 1.0, February 28, 2022) and Torrey Labs' product information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Abbreviations       | GHS: Globally Harmonized System. H and P: hazard and precautionary statement codes. LD50/LC50: dose or concentration lethal to 50% of test animals. EC50/ErC50: effect concentration, 50%. NOEC: no observed effect concentration. BCF: bioconcentration factor. log Pow: octanol/water partition coefficient. PEL, TLV, REL, WEEL: exposure limits set by OSHA, ACGIH, NIOSH and AIHA. NTP: National Toxicology Program. IARC: International Agency for Research on Cancer. TSCA: Toxic Substances Control Act. SARA: Superfund Amendments and Reauthorization Act. CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act. UV: ultraviolet. |
| Disclaimer          | This sheet describes the product's hazards and how to handle it safely, based on the information available to Torrey Labs on the date above. It is not a product specification and gives no warranty. Users should confirm the product suits their use and follow all applicable laws.                                                                                                                                                                                                                                                                                                                                                                               |