

Ultralane[®] Stripper A/B Ultralane[®] Stripper Gel A/B

Chemical Stripper/Remover for Urethane Coatings, Encapsulating, & Adhesives

Ultralane Stripper is a halogen-free, low viscosity two-component solvent based strippers designed for the chemical removal of urethane and epoxy based coatings, encapsulants, and adhesives. It is available in the original formulation which is a thin liquid suitable for dipping or immersing parts to be stripped or in the newer Gel version which can easily for applied to vertical surfaces or to strip only selected areas.

Polymer based materials that are immersed or coated with either version of the Ultralane Stripper will swell and soften and become much easier to remove. For many polymers, the Ultralane Stripper will cause a permanent chemical breakdown that causes the polymer to crack and flake into piece or converts the polymer into a soft gelatin like material that is easy to remove.

Benefits:

- Halogen free
- Available either as a low viscosity liquid with excellent penetration or as a Gel suitable for vertical surfaces or local application
- Fast acting
- Once activated, long work-life

TYPICAL PROPERTIES

	<u>Ultralane Stripper A/B</u>	<u>Ultralane Stripper Gel A/B</u>
Visual Appearance	Clear liquid	Clear to translucent gel
Density	0.86 g/ml	0.86g/ml
Viscosity at 25°C	~ 10 cps	>5,000 cps
Flash Point	>-14°C (7°F)	>-14°C (7°F)
Boiling point	66°C (151°F)	66°C (151 °F)

Suggested Application Methods:

IMPORTANT – PRE-TESTING is suggested before use: Laboratory tests and 30 years of user experience indicate that if suggested procedures are followed, there will be little or no adverse effects to printed circuit board materials such as FR-4, G-10, common solder masks, and electronic components from exposure to the Ultralane Stripper. However, since each application is different, we advise testing a sample board or performing other evaluations before wider use begins.

Incompatible or possible incompatible materials:

Some Marking inks – may dissolve in the Ultralane Stripper.

Polystyrene & Styrofoam – will dissolve in the Ultralane Stripper.

Polycarbonate – will craze, crack, and/or dissolve in the Ultralane Stripper.

The only reported issue with common circuit board material is with uncured epoxy marking inks which may be softened or dissolved by the stripper. In such cases, it is possible to blend the mixed stripper with isopropyl alcohol, mineral spirits, MEK, or another solvent that does not affect the marking ink to reduce or eliminate this issue. Please contact us for assistance with this or similar issues.

Mixing – To mix a pint or quart kit add the contents of the part B container to the part A container, tightly reseal the container and shake the mixture for one to two minutes until a uniform cloudy solution is formed. If you don't intend to use the entire kit within about 3 weeks after mixing, you can instead mix just a portion of the kit in a glass, Teflon (or similar fluoroplastics), or polypropylene container. **NOTE: We advise against using aluminum containers for mixing as some alloys may react with the part B during or after mixing of the solution and this reaction may generate significant heat and/or noxious gases.** If you intended to use this mixture over more than an hour or two a container with that can be tightly sealed with a solvent vapor impermeable lid is preferred. For such smaller mixtures, the stripper should be mixed at 100 parts A to 6 parts B by weight. The part B (catalyst) reacts with the part A (base solution) upon mixing to increase the pH of the mixture and activate the solution so that it is able to rapidly break down the chemical bonds holding cured polymers together.

In some cases, where slower or more gentle results are desired, or where there are other materials on the board or in the device that you want to protect from removal, customers have used less than 6 parts by weight of the part B to make a less active stripping solution. For example, using 3 parts by weight of the part B to 100 parts by weight of part A slows the stripping effect on cured urethane coatings, but has also been found to reduce the risk of effecting other materials on the pcb and of negatively effecting sensitive metal components.

After initially mixing part A & part B, allow the stripper solution to stand for 15-30 minutes then stir or shake thoroughly again for about 30 seconds. This induction period will fully activate the Ultralane Stripper and it will then be ready to be used. If kept tightly sealed between uses to prevent excess evaporation, the mixed solution will remain highly active for at least 3 weeks at room temperature.

Local Removal – Prepare printed circuit board or other parts by masking area to remain intact with masking tape, a latex mask, aluminum foil or other impervious

material. If possible, dam repair area above component height to prevent wicking of stripper into unwanted areas.

Using an acid resistant brush, apply generous amounts of mixed Ultralane Stripper or the Ultralane Stripper Gel over components to be repaired. Keep application area wet with subsequent additions and do not allow stripper to dry. Continue applying stripper until coating begins to swell and separate from the circuit board (approximately 5-10 minutes). Continue to saturate repair area and brush away any loose coating. If necessary, use a blunt tool or tweezers to help remove thick or difficult sections of coating.

After 20 minutes exposure to stripper, remove softened coating and any residues residue and wash area thoroughly with de-ionized water. Gently scrape away or use tweezers to remove any loose coating close to or under components which are being replaced. If further removal is necessary, apply a application and repeat process for an additional 15 - 20 minutes.

Remove masking and damming materials. Wash printed circuit board thoroughly with isopropyl alcohol to remove any remaining stripper. Dry board for at least 2 hours at 80°C. The board is then generally ready to add new components, recoat or otherwise rework or repair.

Complete Removal – Place printed circuit board or parts in container of mixed Ultralane Stripper and allow to soak for 10 – 30 minutes. Agitation will increase efficiency of stripper. Urethane coatings will swell and separate from the components and board. Use a stiff brush periodically to remove loose coating. After about 15 minutes, remove and inspect board or parts. Scrape away remaining coating residue. If further removal is necessary, soak further in Ultralane Stripper.

After removal is complete, wash printed circuit board or parts thoroughly with deionized water and then with isopropyl alcohol and dry for 2 hours at 80°C. If re-working a circuit board, add new components and use appropriate cleaning procedures to prepare boards for re-application is coating. Apply and cure new coating layers per coating technical datasheet.

Storage Guidelines:

Ultralane Stripper, Part A and Ultralane Stripper Gel part A. are flammable. Ultralane Stripper catalyst, Part B, is a corrosive liquid. Use only explosion proof equipment. Keep away from flame and sparks. Use in well ventilated area.

Once mixed, the effectiveness of Ultralane Stripper will decrease slowly with over time. Therefore, only the required amount of material should be mixed for each application. However, if stored in glass, polypropylene or HDPE containers that are tightly closed the mixed Ultralane Stripper and Ultralane Stripper GEL will remain effective for a

minimum of 3 weeks after mixing. Store unused mixed material out of the sun or in amber or black bottles for maximum storage life. Do not use Ultralane Stripper if dark amber color or particle contamination is visible in either part A or mixed material.

Handling Precautions:

Mandatory and recommended industrial hygiene procedures should be followed whenever these products are being handled and processed. For additional information please consult the corresponding material safety data sheets. **Keep out of reach of children! Do Not Use until Safety Data Sheet is read & Understood!**

Personal Hygiene:

Ultralane Stripper A - DANGER! Flammable Liquid. Inhalation of vapor from this material may result in toxic effects to the lung. Components can be irritating to the eyes, skin and respiratory tract and prolonged exposure may result in chemical burns. Avoid contact with eyes, skin, or clothing. Wear eye protection and impervious gloves when handling. Wash thoroughly after handling. Avoid breathing vapor or mist. Keep containers closed when not use. Use only with adequate ventilation. Do not take internally.

Ultralane Stripper B -DANGER! Cause severe and skin burns and possible allergic skin allergic skin reaction. Vapor irritation to eyes, skin, and nasal mucous membranes. Harmful if swallowed. All 5 gallon pails and larger metal containers, including tank cars and trucks, should be grounded and/or bonded when material is transferred. Empty containers may retain product residues (vapor, liquid and/or solid) and should be treated as hazardous.

First Aid

In case of contact:

Skin - Wash skin thoroughly with mild soap and water. Remove contaminated clothing and wash before reuse. Discard contaminated shoes and other articles made of leather. **Eyes** - Flush eyes with plenty of water for 15 minutes and get prompt medical attention. **Inhalation** - Remove person to fresh air. **Ingestion** - Do not induce vomiting. Dilute with plenty of water and contact physician immediately. Never give anything by mouth to an unconscious person. **In case of fire:** Use water to spray, dry chemical, or carbon dioxide extinguisher.

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Product Datasheet



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