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Hyper Tough TD25636B

Hyper Tough 2-PACK ROSIN CORE SOLDER TUBE for ELECTRICAL SOLDERING IRON

Brand: Hyper Tough | **Model:** TD25636B

1. Introduction and Product Overview

The Hyper Tough Rosin Core Solder is specifically designed for electrical soldering applications. This product includes two (2) tubes of high-quality solder, providing a reliable and efficient solution for various electronic and electrical repair tasks. The integrated rosin core eliminates the need for external flux, simplifying the soldering process and ensuring clean, strong joints.





Image 1.1: Two tubes of Hyper Tough Rosin Core Solder, ready for use.

2. Important Safety Information

Please read and understand all safety warnings before using this product. Improper use can lead to injury or damage.

- **Ventilation:** Use adequate ventilation when soldering to avoid inhaling fumes.
- **Skin Contact:** Avoid direct skin contact with solder and wash hands thoroughly after handling.
- **Ingestion:** Do not ingest this product. Keep out of reach of children.
- **Eye Protection:** Always wear appropriate eye protection (safety glasses, goggles) when using this product and any soldering tools.
- **Electrical Safety:** Risk of electrical shock or injury. Always disconnect the power source of electrical devices/circuits before working on them.
- **Soldering Iron Safety:** Do not leave a hot soldering iron unattended while in use. Severe burns can result from using a hot soldering iron. Always use cautiously and do not use around combustible materials.

- **Chemical Exposure:** This product may expose you to chemicals including lead and lead compounds, Di(2-ethylhexyl)phthalate (DEHP), and Di-n-butyl Phthalate (DBP), which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65Warnings.ca.gov.

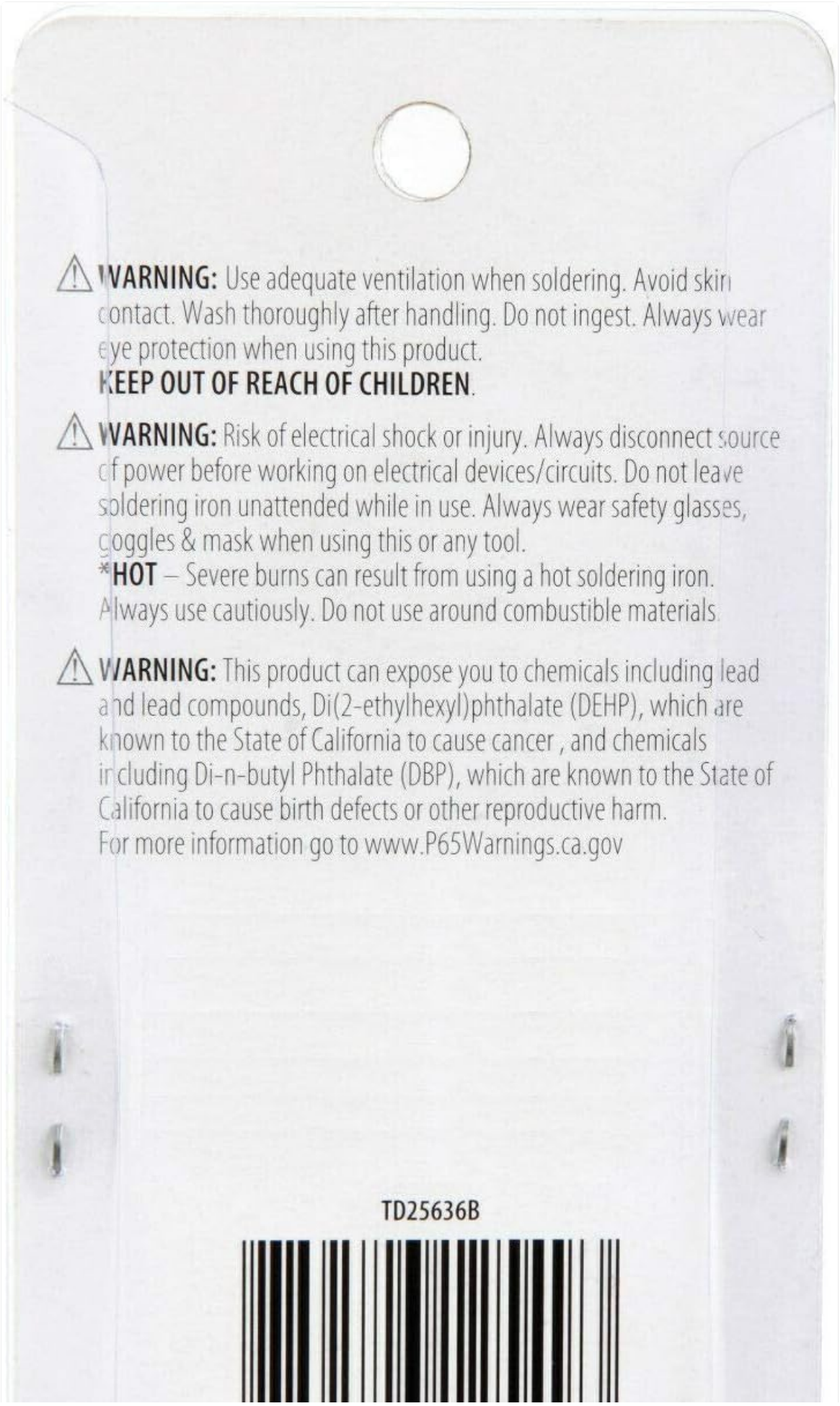



Image 2.1: Back of product packaging displaying important safety warnings and product information.

3. Product Contents

Each package of Hyper Tough Rosin Core Solder contains the following:

- Two (2) tubes of Rosin Core Solder.



Image 3.1: A single tube of rosin core solder, with the solder coil partially removed, illustrating the product's form.

4. Setup and Preparation

Before beginning any soldering task, ensure you have the necessary tools and a safe working environment.

1. **Work Area:** Set up your soldering station in a well-ventilated area. Use a heat-resistant mat or surface.
2. **Safety Gear:** Put on your safety glasses or goggles. Consider wearing gloves if desired, though direct skin contact with solder should be avoided regardless.

3. **Soldering Iron:** Ensure your soldering iron is clean and properly tinned. If it's a new iron or has been stored, tin the tip by heating it and applying a small amount of solder to coat the tip evenly.
4. **Components/Wires:** Prepare the components or wires you intend to solder. Ensure they are clean and free of dirt, grease, or oxidation. Lightly sand or clean if necessary.
5. **Solder Tube:** The rosin core solder is ready for use directly from the tube. Simply uncoil the desired length of solder.

5. Operating Instructions

Follow these steps for effective electrical soldering using Hyper Tough Rosin Core Solder:

1. **Heat the Joint:** Apply the hot tip of the soldering iron directly to the components or wires you wish to join. Heat both surfaces simultaneously. The goal is to heat the workpieces, not the solder itself.
2. **Apply Solder:** Once the joint is hot enough (typically 2-3 seconds, depending on iron temperature and component size), touch the Hyper Tough Rosin Core Solder to the heated joint, opposite the soldering iron tip. The solder should melt and flow smoothly onto the heated surfaces, creating a shiny, continuous connection.
3. **Allow Rosin to Work:** The rosin flux inside the solder will activate with the heat, cleaning the surfaces and allowing the solder to flow properly. You may see a small amount of smoke; this is the flux burning off.
4. **Remove Solder and Iron:** Once enough solder has flowed to create a strong joint, remove the solder wire first, then immediately remove the soldering iron.
5. **Cool and Inspect:** Allow the joint to cool naturally without disturbance. Do not blow on it. Once cool, inspect the joint. A good solder joint will be shiny, smooth, and concave (like a fillet), indicating good wetting. A dull, lumpy, or convex joint may indicate a "cold joint" and should be reheated and re-soldered.



Image 5.1: Proper technique for applying solder to a heated joint using a soldering iron.

6. Maintenance and Storage

The Hyper Tough Rosin Core Solder itself requires minimal maintenance, but proper storage is key to its longevity and performance.

- **Storage:** Store the solder tubes in a cool, dry place, away from direct sunlight and excessive heat. Keep the caps securely on the tubes to prevent oxidation and contamination.
- **Handling:** Always handle the solder by the plastic tube or by the wire itself, avoiding direct contact with the rosin core if possible, to prevent contamination.
- **Cleaning:** If the solder wire becomes dusty or dirty, gently wipe it with a clean, dry cloth. Do not use solvents or abrasive cleaners.

7. Troubleshooting Common Soldering Issues

If you encounter issues while soldering, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Dull, Lumpy Joint (Cold Joint)	Insufficient heat; components not hot enough.	Ensure soldering iron tip is clean and tinned. Apply iron to both components for longer to heat them thoroughly before applying solder. Increase iron temperature if adjustable.
Solder Not Flowing	Components or iron tip are dirty/oxidized; insufficient heat; old solder.	Clean components and iron tip. Ensure proper heat transfer. Use fresh solder.
Excessive Smoke	Too much flux burning off; iron too hot.	Ensure adequate ventilation. Reduce iron temperature if possible. Apply solder quickly once joint is hot.
Solder Bridging	Too much solder applied; components too close.	Use less solder. Carefully remove excess solder with desoldering braid or pump. Ensure proper component spacing.

8. Specifications

Brand	Hyper Tough
Product Type	Rosin Core Solder
Quantity	2 Tubes per pack
Model Number	TD25636B
ASIN	B08545719Z
UPC	0889526125493
Date First Available	January 10, 2021
Specific Uses	Electrical Soldering, Residential Use

9. Warranty and Support

No specific warranty information for the Hyper Tough Rosin Core Solder is provided in the product details. For any product-related inquiries, support, or to inquire about potential warranty coverage, please contact Hyper Tough customer service directly or refer to their official website.

For general information about Hyper Tough products, you may visit their official brand page or contact their support channels.

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