

Description

The 4910 *Tip Tinner* is a lead-free mixture used for quickly cleaning, repairing, and maintaining solder iron tips. It is composed of SAC305 powder mixed with some thermally stable, oxide-reducing compounds that form a convenient tinning block. The re-tinning compound is suitable for both leaded and lead free applications.

During use, a soldering iron tip can lose its protective layer of tin leading to oxidization. Oxidized tips exhibit poor heat transfer characteristics and lose their ability to accept solder. This leads to bad joint formation and prematurely damages the soldering iron tip. To extend the soldering tip lifespan and decrease solder joint failures, any de-tinned tip should be re-tinned as needed. The 4910 *Tip Tinner* re-tins better than standard rosin-cored wires and results in a more robust, oxide protective tin layer.

The 4910 *Tip Tinner* also offers better cleaning than pads or wet sponges. Carbonized resin can be removed by simply wiping the soldering tip against the re-tinning compound without requiring heavy pressure or mechanical scrubbing.

Benefits & Features

- **Lead free Sn96.6/Ag3/Cu0.5 alloy**
- **Suitable for both lead and lead-free tip repairs**
- **Health and environment safe**
- **Minimal fume production**
- **Minimal residue**
- **Non-corrosive**
- **Easy to use**
- **Halogen free**

COMPLIANCE

- ✓ Dobb-Frank ([DRC conflict free](#))
- ✓ REACH ([compliant](#))
- ✓ RoHS ([compliant](#))

SAC305 Alloy Typical Literature Properties

<i>Physical Properties</i>	<i>Value</i>
Color	Silvery-white metal
Alloy Density @26 °C [78 °F]	7.49 g/cm ³
Hardness	15 HB
Shelf Life	3 y
<i>Thermal Properties</i>	<i>Value</i>
Melting Point, Solidus	217 °C [423 °F]
Melting Point, Liquidus	221 °C [430 °F]
Tip Temperature Upper Limit	Do not exceed 450 °C [842 °F]
Thermal Conductivity	58.7 W/(m·K)

NOTE: This table present typical literature values for SAC305 alloys.

Solder Alloy Composition

Properties	Value	Properties	Value
MAIN INGREDIENTS		IMPURITIES ^{a)}	Requirements
Sn	96.2 to 96.8%	Pb	≤0.05% Max
Ag	2.8 to 3.2%	Sb	≤0.05% Max
Cu	0.4 to 0.6%	Bi	≤0.05% Max
		In	≤0.05% Max
		Cu	≤0.01% Max
		Au	≤0.01% Max
		As	≤0.005% Max
		Fe	≤0.002% Max
		Ni	≤0.001% Max
		Al	≤0.001% Max
		Zn	≤0.001% Max

a) Meets the requirements of J-STD-006

Storage

Protect from direct heat or sunlight. Store in a cool and dry area. Keep can tightly closed when not in use.

Health and Safety

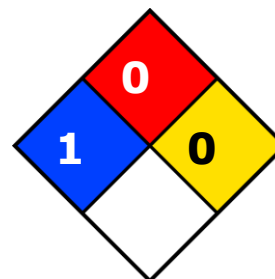
Please see the 4910 **Safety Data Sheet** (SDS) for more details on transportation, storage, handling and other security guidelines.

Health and Safety: Avoid breathing fumes. Wash hands thoroughly after use. Do not ingest.

HMIS® RATING

HEALTH:	*	1
FLAMMABILITY:		0
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:

0 (Low or none); 1 (Slight); 2 (Moderate); 3 (Serious); 4 (Severe)

Instructions

To open the container

Remove the plastic wrap around the container. Use a small, pointed object like a screw driver to gently lift the lid straight up without using excess amount of force.

–OR–

Remove the plastic wrap around the container. Twist the cap and gently open without using excess amount of force.

To clean or re-tin soldering tips

1. Bring the soldering iron to its standard operating temperature.
2. Roll or wipe the tip on the surface of the tip tinner. This should produce local melting.
3. Wipe tip on a wet sponge to remove potential post-tinning residues.

TIP! To avoid unnecessary fumes, avoid high temperatures and prolonged contact.

TIP! To avoid contamination of tip tinner, recap the can immediately after use.

Packaging and Supporting Products

<i>Cat. No.</i>	<i>Form</i>	<i>Packaging</i>	<i>Net Weight</i>
4910-28G	Solid	Tin can	28 g 0.988 oz

Technical Support

Contact us regarding any questions, improvement suggestions, or problems with this product. Application notes, instructions, and FAQs are located at www.mgchemicals.com.

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Warranty

M.G. Chemicals Ltd. warrants this product for 12 months from the date of purchase by the end user. *M.G. Chemicals Ltd.* makes no claims as to shelf life of this product for the warranty. The liability of *M.G. Chemicals Ltd.* whether based on its warranty, contracts, or otherwise shall in no case include incidental or consequential damage.

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