



ALTAI METAL & CHEM. LTD

ADD: 602-2816 SANDALWOOD DR. K1V 2T6 ON, OTTOWA – CANADA

[www.altaichemical.com](http://www.altaichemical.com) Cellphone: +1437 227 4370

## ALT-MSP9811

### Metal Surface Pretreatment Agent(Silane Surface Treatment Agent)

#### GENERAL INFORMATION

ALT-MSP9811 is a room-temperature silane-zirconium based conversion coating agent, free from heavy metals such as phosphorus, zinc, and nickel. It is applied to steel and other metal surfaces at room temperature via spray or immersion, forming a uniform, dense, light gold or blue-purple protective film layer suitable as a base for painting.

Technical Data	Standard
Appearance:	Colorless transparent liquid
PH Value (after dilution) :	4.4-5.1
Zirconium Point:	10-18
Fe <sup>2+</sup> :	50
Conductivity:	<1500
Density:	1.03g/cm <sup>3</sup>

**Process Flow: (Standard) Degreasing → Water Wash → Pure Water Wash → Silane Treatment → Pure Water Wash → Pure Water Wash → Electrophoretic Coating**

#### Process Parameters:

- 1.Working Concentration:** 1.5 - 3% in pure water for make-up.
- 2.Working Temperature:** Room temperature.
- 3.Working Time:** A. Immersion: 3-10 minutes B. Spray: 1-3 minutes.

#### Usage Instructions:

- 1.Prepare the bath at the working concentration (e.g., 2%) using the product and balance with deionized water. Ready for use.
- 2.Check pH value 2-4 times daily to ensure it remains within the specified range.
- 3.Ensure effective rinsing to minimize carry-over of degreasing solution into the silane bath, which can reduce bath life.
- 4.Replace the bath solution promptly if it turns yellow or ages; prepare a fresh bath.

**Replenishment Method:** If control parameters are normal, replenish by adding ALT-MSP9811 directly.

**Suggested Discharge/Cycle:** When conductivity exceeds 1200, discharge 10%-20% of the bath volume. When conductivity exceeds 1500, it is recommended to replace the bath entirely or perform a controlled dump and test.

**Testing/Analysis Frequency:** 2 times per shift.

#### Maintenance Instructions:

- 1.Inspect the bath tank for leaks; monitor liquid level and promptly identify and correct any cross-flow between tanks.
- 2.Clean clogged spray nozzles promptly; adjust any nozzles that are misaligned, damaged, or dislodged.



ALTAI METAL & CHEM. LTD

ADD: 602-2816 SANDALWOOD DR. K1V 2T6 ON, OTTOWA – CANADA

[www.altaichemical.com](http://www.altaichemical.com) Cellphone: +1437 227 4370

3.If pH > 5, add Acidic pH Adjuster to lower it. If pH < 4, add Alkaline pH Adjuster to raise it. When adding Alkaline pH Adjuster, add slowly in increments of 1-2 liters until the pH reaches the specified range.

4.If Zirconium Point < 10, replenish by adding ALT-MSP9811 to adjust.

5.If  $\text{Fe}^{2+}$  > 50, add Alkaline pH Adjuster to raise the bath pH to 5.1 and allow it to stand for 8 hours to gradually reduce the  $\text{Fe}^{2+}$  content in the bath.

#### **HEALTH AND SAFETY DATA**

Before handling this material, read the corresponding Safety Data Sheet (SDS) for safety, health and environmental data.

---

NOTE: The information herein is currently believed to be accurate. We do not guarantee its accuracy. Purchasers shall not rely on statements herein when purchasing any products. Purchasers should make their own investigations to determine if such products are suitable for a particular use. The products discussed are sold without warranty, express or implied, including a warranty of merchant ability and fitness for use. Purchases will be subject to a separate agreement which will not incorporate this document.