

MATERIAL SAFETY DATA SHEET

Product Code:
1100A

Date of Preparation:
Aug. 30, 2013

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name: **TESLAN® 1100 ZN-CNT Low VOC Primer - Part A**
CAS Number: **Mixture**
Hazard Rating: **Health: 1 Fire: 2 Reactivity: 1 PPI:**

Company Identification: **Tesla NanoCoatings Inc
Advanced Technology Center T101
6200 Frank Ave. NW
N. Canton, OH 44720 USA**

Contact: **Charles Simpson**
Telephone: **+1-330-685-0599**
Emergency Phone (24 Hour): **+1-330-685-0599**

Product Class: **Paint**
Trade Name: **TESLAN® 1000 ZN-CNT Low VOC Primer - Part A**
Product Code: **1100A**
DOT Hazard Class: **NA**
UN Number: **NA**
Shipping Name: **SWNT / Zinc Epoxy Primer Coating**
Technical Name: **NA**

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Percent	TSCA
ZINC METAL	7440-66-6	40-60	Y
AROMATIC PETROL. DISTILL.	64742-95-6	0-10	Y
HMIS Health: 0 Fire: 2 Reactivity: 0 PPI:			
\$ 1,2,4 TRIMETHYLBENZENE	95-63-6	0-8	Y
HMIS Health: 0 Fire: 2 Reactivity: 0 PPI:			

***ALL ingredients in this product are listed in the T.S.C.A. Inventory

SECTION 3 – HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE:

EYES: Can cause redness, irritation, swelling and blurred vision.

SKIN: Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.

BREATHING: Excessive inhalation of vapors and/or spray mist can cause respiratory irritation, dizziness, weakness, fatigue nausea, headache, unconsciousness and even asphyxiation.

SWALLOWING: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea; aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.

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SECTION 4 – FIRST AID MEASURES

EYES: Flush with large amounts of water for 15 minutes. Lift eyelids occasionally, get prompt medical attention.

SKIN: Wash thoroughly with soap and water, remove contaminated clothing promptly; wash clothing before reuse.

Consult a physician if irritation persists.

SWALLOWING: DO NOT induce vomiting! Keep person warm, quiet and get medical attention. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal. Drink 1-2 glasses of water to dilute.

INHALATION: Move affected person to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention. Consult a physician

SECTION 5 – FIRE FIGHTING MEASURES

Flammability Class:	II
Flash Range:	130°F (54.44°C)
	Setaflash
Explosive Range:	1%
	7%

EXTINGUISHING MEDIA:

Carbon Dioxide---Dry Chemical---Foam---Water Fog

Use water for cooling material stored in vicinity of fire.

SPECIAL FIREFIGHTING PROCEDURES:

Use self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode. Wear protective clothing.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Vapors are heavier than air and may travel along the ground to an ignition source some distance from material handling point. Ignition sources include pilot lights, smoking, heaters, electric motors, sparks from electrical switches and static discharges.

CAUTION: Never use cutting torch on empty containers! Residual solvent vapor in empty container may explode.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

SMALL SPILL: Absorb liquid with rags, floor absorbent, vermiculite or other absorbent material and transfer to hood.

LARGE SPILL: Eliminate all ignition sources---dike area of spill to prevent spreading---ventilate area if indoors---pump liquid into salvage tank---remaining liquid may be taken up with sand, floor absorbent or other absorbent material and shoveled into containers---prevent run-off to sewers and bodies of water--notify proper authorities as required by local, state and federal regulations.

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SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not drop containers. Avoid heat, sparks, and open flame. Store large quantities only in buildings designed to comply with OSHA 1910.106. Never use pressure to empty. Avoid breathing sanding dust. Do not handle until the manufacturers safety precautions have been read and understood.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
ZINC METAL	10mg/m ³	NE	NE	NE	NE
AROMATIC PETROL. DISTILL.	NE	NE	NE	NE	NE
\$ 1,2,4 TRIMETHYLBENZENE	25ppm	NE	NE	NE	NE

RESPIRATORY PROTECTION:

If workplace exposure limits are exceeded for any component (see Section II for hazardous components and exposure limits) a NIOSH/OSHA approved respirator for components listed is recommended.

VENTILATION:

Sufficient ventilation in volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible exposure limit or ACGIH TLV limit.

PROTECTIVE GLOVES:

Wear resistant gloves such as: nitrile rubber

EYE PROTECTION:

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other types of safety glasses. (Consult your safety equipment supplier)

OTHER PROTECTIVE EQUIPMENT:

Appropriate impervious clothing is recommended if prolonged or repeated contact is likely.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Appearance/Color:	Black
Odor:	Mild
Solubility (in water):	NA
pH Value:	NA
Boiling Range:	NA
Vapor Pressure (mmHg):	NA
Melting Point:	NA

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Evaporation Rate:	NA
Vapor Density:	NA
Partition Coefficient:	NA
% Volatile Weight:	14.7%
% Volatile Volume:	34.9%
Specific Gravity:	2.03
VOC (lbs/gal / g/l):	1.50 / 180.0 (calculated on non-exempt (US EPA) solvent basis)
Molecular Weight:	NA
Heavy Elements (ppm):	NA

SECTION 10 - STABILITY AND REACTIVITY

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur
INCOMPATIBILITY :
Avoid contact with strong oxidizers (e.g. nitric acid)
CONDITIONS TO AVOID:
Keep away from heat and open flame.
HAZARDOUS DECOMPOSITION PRODUCTS:
May form carbon monoxide and dioxide, various hydrocarbons, etc.

SECTION 11 – TOXICOLOGICAL INFORMATION

No data available

SECTION 12 – ECOLOGICAL INFORMATION

No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
Dispose of in accordance with federal, state and local regulations.

SECTION 14 – TRANSPORT INFORMATION

Transport in accordance with federal, state and local regulations.

SECTION 15 – REGULATORY INFORMATION

SARA TITLE III SECTION 313:
This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

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<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Percent</u>
\$ 1,2,4 TRIMETHYLBENZENE	95-63-6	0 - 8.0

PROP 65 (CARCINOGEN):

WARNING: This product contains a chemical known to the state of California to cause cancer.

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Percent</u>
Lead Compound	1314-41-6	0.01

PROP 65 (TERATOGEN):

WARNING: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Percent</u>
Toluene	108-88-3	0.01

PROP 65 (BOTH CARCINOGEN AND TERATOGEN)

SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT MAY CONTAIN TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 AND 40 CFR 372 (NOTED BY THE \$ SYMBOL)

CAUTION: This product may become a dust nuisance when removed by sanding, abrading or sandblasting. Dust masks should be worn during these operations.

NE = not established

NA = not available

NR = not regulated

ALL COMPONENTS OF THIS MIXTURE ARE LISTED ON THE TSCA INVENTORY.

SECTION 16 – OTHER INFORMATION

The above information pertains to this product as currently formulated, and is based on information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.