

**TESLA NANOCOATINGS, INC.
SAFETY DATA SHEET**

This Safety Data Sheet has been prepared to comply with the EU Regulation and the OSHA Hazard Communication Standard.

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION
AND THE COMPANY/UNDERTAKING**

1.1 Product Identifier:

Trade Name: TESLAN® 811 CNT PIT-FILLER – Part A

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Product Use: Pit Filler

Uses Advised Against: None

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer: Tesla NanoCoatings, Inc.
50 North Avenue N.W.
Massillon, Ohio 44647 USA

Information Phone Number: +1-330-809-6691

Only Representative (REACH)/Nominated EU Importer:

nEMCEL LTD.
Myllarintie 1
40640 JYVASKYLA, Finland
Tel: +040-171-3894

1.4 Emergency Telephone Number: +1-800-424-9300 / +1-703-527-3887
CHEMTREC

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

GHS Classification:

Eye Irritant Category 2 (H319)
Skin Irritant Category 2 (H315)
Skin Sensitization Category 1 (H317)
May cause respiratory Irritation Category 3 (H335)

EU Classification:

Irritant (Xi), Irritating to eyes and skin (R36/38), May cause sensitisation by skin contact (R43)

2.2 Label Elements:

Warning!



Contains: Epoxy Resin

Hazard Phrases

H315	Causes skin irritation.
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H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Precautionary Phrases

P210	Keep away from heat, sparks, open flames, and hot surfaces. –No smoking.
P233	Keep container tightly closed.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing mist, vapours, or spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves, eye protection and face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice or attention.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P333 + P313	If skin irritation or rash occurs: Get medical advice or attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P370 + P378	In case of fire: Use water fog or spray, universal foam, carbon dioxide or dry chemical for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents and container in accordance with local and national regulations.

2.3 Other Hazards: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture:

Chemical Name	CAS#	EINECS#	EU Classification (67/548/EEC)	CLP Annex VI Classification	%
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	608-164-0	Xi;R36/38 R43	Skin Irrit. Cat. 2 (H315) Eye Irrt. Cat. 2A (H319) Skin Sens. Cat. 1 (H317) Tox Resp. Cat. 3 (H335)	30-35
Silicon	7440-21-3	692-536-2	No EU Classification or R phrase	No Classification	27-44
Iron	7439-89-6	640-395-2	No EU Classification or R phrase	No Classification	15-29
1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with (chloromethyl)oxirane	30499-70-8	None	No EU Classification or R phrase	Skin Irrit. Cat. 2 (H315) Eye Irrt. Cat. 2A (H319) Skin Sens. Cat. 1 (H317)	5-10

A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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See Section 16 for further information on EU and GHS Classification.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye: Immediately rinse thoroughly with water for at least 15 minutes, while holding the eye lids open to be sure the material is washed out. Get medical attention if irritation persists.

Skin: Remove contaminated clothing. Wash contact area thoroughly with soap and water. Get medical attention if irritation or rash occurs. Launder clothing before re-use.

Inhalation: Remove victim to fresh air. Give artificial respiration if needed. Get medical attention.

Ingestion: If the victim is conscious, rinse out the mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed: May cause moderate eye and skin irritation. May cause respiratory irritation. May cause skin sensitization. May cause stomach upset and indigestion if swallowed. Refer to Section 11 for detailed information.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is required for ingestion.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media: Use water fog or spray, universal foam, carbon dioxide or dry chemical.

5.2 Special Hazards Arising from the Substance or Mixture:

Unusual Fire and Explosion Hazards: In a fire if heated, a pressure increase will occur and container may burst.

5.3 Advice for Fire-Fighters:

Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water. Contain water used in firefighting from entering sewers or natural waterways.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles and respirator if needed. Ventilate area.

6.2 Environmental Precautions:

Do not let product enter drains. Avoid releases to the environment. Report spills and releases as required to appropriate authorities.

6.3 Methods and Material for Containment and Cleaning Up:

Cover with an inert absorbent material and collect into an appropriate container for disposal. Dispose of any contaminated cleaning materials in a sealed container.

6.4 Reference to Other Sections:

Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling: Avoid breathing vapors, aerosols and mists. Use with adequate ventilation. Avoid contact with the eyes, skin and clothing. Always wear impervious gloves, chemical safety goggles and protective clothing when handling this material. Wash thoroughly after handling. Do not eat, drink or smoke in the work area. Keep product away from heat, sparks, flames and all other sources of ignition. No smoking in storage or use areas. Keep containers closed when not in use.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, dry, well-ventilated location away from oxidizers and other incompatible materials. Keep containers closed when not in use. Never use pressure to empty containers.

7.3 Specific end use(s): Industrial use only

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure Limits
None	

8.2 Exposure Controls:

Ventilation: Use only with adequate controls such as source enclosure or local exhaust ventilation to minimize worker exposure.

Personal Protective Equipment:

Respiratory Protection: If needed, an approved respirator with organic vapor cartridges and particulate prefilter may be used. For higher exposures, a supplied air respirator may be required. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Impervious gloves such as nitrile rubber are recommended to prevent skin contact. Contact your glove supplier for selection assistance.

Eye Protection: Chemical safety goggles are recommended.

Other Protective Equipment: Impervious clothing as needed to avoid skin contact and contamination of personal clothing. An eye wash facility and safety shower should be available in the work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Appearance: Dark gray liquid	Vapor Density: No data available
Odor: Mild odor	Density: 15.22 lb/gal (1.82 g/cm ³) at 77°F (25°C)
Odor Threshold: No data available	Solubility: No data available
pH: Not available	Octanol/Water Partition Coefficient: No data available
Melting Point/Freezing Point: No data available	Autoignition Temperature: No data available
Boiling Point: No data available	Decomposition Temperature: No data available
Flash Point: 392°F (392°C)	Viscosity: No data available
Evaporation Rate: No data available	Explosive Properties: Not explosive
Flammable Limits: No data available	Oxidizing Properties: Not an oxidizer
Vapor Pressure: No data available	Relative Density: No data available
Molecular Formula: Mixture	Flammability (solid, gas): Not applicable
Molecular Weight: Mixture	

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9.2 Other Information: None

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Not reactive.

10.2 Chemical Stability: Stable under normal storage and handling conditions.

10.3 Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4 Conditions to Avoid: Keep away from heat, sparks, flames and other sources of ignition.

10.5 Incompatible Materials: Strong oxidizing and acids, aliphatic amines

10.6 Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eye: May cause serious eye irritation.

Skin: Product may cause moderate irritation, defatting and dermatitis. May cause allergic skin reaction (sensitization).

Inhalation: Inhalation of vapors or mists may cause mucous membrane and respiratory tract irritation.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Hazards: None none.

Acute Toxicity Values: No data available for the mixture. This product is classified as a skin irritant.

Skin corrosion/irritation: No data available for the mixture. This product is classified as a skin irritant.

Eye damage/irritation: No data available for the mixture. This product is classified as an eye irritant.

Respiratory Irritation: May cause irritation of respiratory system.

Respiratory Sensitization: No data available.

Skin Sensitization: No data available for the mixture. This product is classified as a skin sensitizer.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: None of the other components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH and the EU CLP.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity:

Single Exposure: Phenol-Formaldehyde Polymer Glycidyl Ether, Category 3, Respiratory track irritation

Repeat Exposure: No data available.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

No data available for the mixture. The following information are for the components:

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential:

Product/ingredient name	LogPow	BCF	Potential
Phenol-Formaldehyde Polymer Glycidyl Ether	3	-	Low

12.4 Mobility in Soil: No data available

12.5 Results of PBT and vPvB Assessment: No data available

12.6 Other Adverse Effects: Not applicable

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose in accordance with all local, state and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT		Non-regulated	-	-	No
Canadian TDG		Non-regulated	-	-	No
EU ADR/RID		Non-regulated	-	-	No
IMDG	3082	Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Resin)	9	III	Yes
IATA/ICAO	3082	Environmentally Hazardous Substance, Liquid, N.O.S. (Epoxy Resin)	9	III	Yes

* **Hazardous Substance (49CFR172.101):** Not applicable

14.6 Special Precautions for User: Not applicable

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

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US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

CERCLA Hazardous Substance List (40 CFR 302.4): Chemical Identity	Reportable quantity
Oxirane, (chloromethyl)-	100 lbs.

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

SARA 311/312 Hazardous Chemical Chemical Identity	Threshold Planning Quantity
Oxirane, (chloromethyl)-	500 lbs

EUROPEAN REGULATIONS

REACH: Tesla NanoCoatings, Inc. products comply with REACH regulation as applicable. For more information, contact Tesla NanoCoatings, Inc.

SVHC: This product contains the following Substances of Very High Concern (SVHCs): None

15.2 Chemical Safety Assessment: None Required

SECTION 16: OTHER INFORMATION

HMIS Ratings: Health – 2 Flammability - 1 Physical Hazard - 0
NFPA Ratings: Health - 2 Flammability - 1 Instability - 0

GHS Classification for Reference (See Sections 2 and 3):

- Eye Irrit. Cat 2A Eye Irritant Category 2A
- Skin Irrit. Cat 2 Skin Irritant Category 2
- Skin Sens. Cat 1 Skin Sensitization Category 1
- Tox Resp. Cat. 3 Specific Target Organ Toxicity Single Exposure Category 3
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):

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This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Tesla NanoCoatings, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Trade Name:	TESLAN® 811 CNT PIT-FILLER, Part A
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