

**TESLA NANO COATINGS, 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® 0902 Type I Urethane Reducer

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

Product Use: Urethane Reducer
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: +1-330-417-3550
Contact: Todd Hawkins
Email: todd@teslanano.com

Only Representative (REACH)/Nominated EU Importer:

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

1.4 Emergency Telephone Number: +1-330-417-3550 or +040-171-3894

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture:

GHS Classification:

Flammable Liquid Category 3 (H226)
Specific Target Organ Toxicity Single Exposure Category 3 (H336)

EU Classification:

Flammable (R10), R66, R67

2.2 Label Elements:

Warning



Contains: N-Butyl Acetate

Hazard Phrases

H226	Flammable liquid and vapor.
H336	May cause drowsiness or dizziness.

Trade Name:	TESLAN® 0902 Type I Urethane Reducer
Product Code:	P0902
Date of Preparation:	08/20/2019

Precautionary Phrases

P210	Keep away from heat, sparks, open flames, and hot surfaces. –No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating, or lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust, fume, gas, mist, vapors or spray.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, eye protection and face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor or physician if you feel unwell.
P370 + P378	In case of fire: Use alcohol-resistant foam, carbon dioxide (CO2) or dry chemical to extinguish.
P403 + P233 + P235 P405	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
P501	Dispose of contents and container to an approved waste disposal plant.

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	%
N-Butyl Acetate	123-86-4	204-658-1	R10, R66, R67	Flam. Liq. Cat 3 (H226) STOT SE Cat 3 (H336) EUH066	90-100

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

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

General advice: Move out of dangerous are. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

Inhalation: Consult a physician after significant exposure. If unconscious place in recovery position and seek medical advice.

Skin: If on skin, rinse well with water. If on clothes, remove clothes.

Eye: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

Ingestion: Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.

Trade Name:	TESLAN® 0902 Type I Urethane Reducer
Product Code:	P0902
Date of Preparation:	08/20/2019

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media: Alcohol resistant foam. Carbon dioxide, (CO₂). Dry chemical.

5.2 Special Hazards Arising from the Substance or Mixture:

Unusual Fire and Explosion Hazards: Flammable liquid and vapor. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Vapors may form explosive mixtures with air in confined areas.

Combustion Products: Oxides of carbon, smoke and hydrocarbons.

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:

Evacuate spill area and keep unprotected personnel away. Remove all ignition sources such as open flames, spark producing equipment, pilot lights, etc. Use non-sparking tools and equipment. Wear appropriate protective clothing to prevent eye and skin contact including impervious gloves, safety goggles and respirator if needed. Ventilate area with explosion proof equipment.

6.2 Environmental Precautions:

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. Use only non-sparking tools. 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.

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 oxidizing agents and other incompatible materials. Keep containers closed when not in use.

7.3 Specific end use(s): Industrial use only

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure Limits
N-Butyl Acetate	150 ppm TWA, 200 ppm STEL ACGIH TLV

Trade Name:	TESLAN® 0902 Type I Urethane Reducer
Product Code:	P0902
Date of Preparation:	08/20/2019

	150 ppm TWA OSHA PEL 100 ppm TWA, 200 ppm STEL DFG MAK 150 ppm, 724 mg/m ³ TWA, 200 ppm, 966 mg/m ³ STEL UK WEL
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8.2 Exposure Controls:

Ventilation: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits. Use explosion proof electrical equipment and wiring where required.

Personal Protective Equipment:

Respiratory Protection: In operations where the occupational exposure limits are exceeded, an approved respirator with applicable cartridges or supplied air respirator should be used. 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: Clear liquid	Vapor Density: No data available
Odor: Fruity-like odor, sweet	Specific Gravity: 0.881
Odor Threshold: 0.04 – 20 ppm	Solubility: No data available
pH: 6.2 @ 68 °F (20 °C)	Octanol/Water Partition Coefficient: No data available
Melting Point/Freezing Point: -74 °C (-101 °F)	Autoignition Temperature: 407 °C
Boiling Point: 257 °F (125 °C)	Decomposition Temperature: No data available
Flash Point: 81°F (27°C)	Viscosity: No data available
Evaporation Rate: Equal to n-Butyl Acetate	Explosive Properties: Not explosive
Flammable Limits: LEL: 1.2% (V) UEL: 7.5% (V)	Oxidizing Properties: Not an oxidizer
Vapor Pressure: 15 hPa @ 68 °F (20 °C)	Relative Density: No data available
Molecular Formula: C ₆ H ₁₂ O ₂	Flammability (solid, gas): Not applicable
Molecular Weight: 116.16 g/mol	

9.2 Other Information: VOC: 7.3 lbs/gal / 880.6 g/L (calculated on non-exempt (US EPA) solvent basis), % Volatile weight: 100%, % Volatile volume: 100%

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No dangerous reaction known under conditions of normal use.

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

10.3 Possibility of Hazardous Reactions: Vapors may form explosive mixture with air.

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

10.5 Incompatible Materials: Strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents.

10.6 Hazardous Decomposition Products: Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Trade Name:	TESLAN® 0902 Type I Urethane Reducer
Product Code:	P0902
Date of Preparation:	08/20/2019

11.1 Information on Toxicological Effects:

Potential Health Effects:

- Eye:** May cause moderate eye irritation. Corneal injury is unlikely.
- Skin:** Product may cause moderate irritation, defatting and dermatitis.
- Inhalation:** Inhalation of vapors or mists may cause mucous membrane and respiratory tract irritation, dizziness, weakness, fatigue nausea and headache.
- Ingestion:** Aspiration hazard. May cause lung damage during swallowing or vomiting. Swallowing may cause gastrointestinal irritation.
- Chronic Hazards:** None known.

Acute Toxicity Values:

N-Butyl Acetate: Oral rat LD50-12789 mg/kg; Inhalation rat LC50->21 mg/L/4hr; Skin rabbit LD50->16 mL/kg

Skin corrosion/irritation: Not irritating to skin.

Eye damage/irritation: Not irritating to eyes.

Respiratory Irritation: No data available.

Respiratory Sensitization: No data available.

Skin Sensitization: Does not cause skin sensitization.

Germ Cell Mutagenicity: No data available.

Carcinogenicity: None of the components of this product listed at greater than 1% are listed as carcinogens by OSHA, IARC, NTP, ACGIH and the EU CLP.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity:

Single Exposure: No data available

Repeat Exposure: No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

N-Butyl Acetate: 96 hr LC50 Fathead minnow- 18 mg/L; 48 hr EC50 Daphnia magna- 44 mg/L

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential: No data available

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
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Trade Name:	TESLAN® 0902 Type I Urethane Reducer
Product Code:	P0902
Date of Preparation:	08/20/2019



13.1 Waste Treatment Methods:

Contaminated packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on the empty drum.

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	UN1123	Butyl Acetates*	3	PG III	No
Canadian TDG	UN1123	Butyl Acetates	3	PG III	No
EU ADR/RID	UN1123	Butyl Acetates	3	PG III	No
IMDG	UN1123	Butyl Acetates	3	PG III	No
IATA/ICAO	UN1123	Butyl Acetates	3	PG III	No

* Hazardous Substance (49CFR172.101): N-Butyl Acetate (RQ 5,000 lbs) (5,000 lbs. product)

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:

WHMIS Classification: B2: Flammable liquid

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: This product has an RQ of 5,000 lbs (based on the RQ of N-Butyl Acetate of 5,000 lbs present at 100%). Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA TITLE III:

Hazard Category for Section 311/312: Fire Hazard. Immediate (Acute) Health Hazard.

Section 313 Toxic Chemicals: None.

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this mixture are listed on the TSCA inventory.

INTERNATIONAL REGULATIONS:

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

Trade Name:	TESLAN® 0902 Type I Urethane Reducer
Product Code:	P0902
Date of Preparation:	08/20/2019



CA Prop 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical Safety Assessment: None Required

SECTION 16: OTHER INFORMATION

HMIS Ratings: Health - 2 Flammability - 3 Physical Hazard - 0
NFPA Ratings: Health - 2 Flammability - 3 Instability - 0

SDS Revision History:
2/3/15: New SDS
2/26/16: Revised/Updated SDS
11/29/17: Revised/Updated SDS
8/20/19

GHS Classification for Reference (See Sections 2 and 3):
Flammable Liquid Category 3 (H226)
Specific Target Organ Toxicity Single Exposure Category 3 (H336)
H226 Flammable liquid and vapor.
H336 May cause drowsiness or dizziness.

EU Classes and Risk Phrases for Reference (See Sections 2 and 3):
R10 Flammable

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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.

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Date of Preparation:	08/20/2019