

**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: Vblast/TESLAN 1105C

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

Product Use: Consult the Supplier
Uses Advised Against: None

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer: Manufacturer/Supplier
GMA Industries, Inc
38127 Ecorse Rd
Romulus, MI 48174
Phone: (734) 595-7300
Information Phone Number: 1-800-424-9300 / +1 703-527-3887
Contact: CHEMTREC

Only Representative (REACH)/Nominated EU Importer:

nEMCEL LTD.
Myllarintie 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 2 (H225)
Eye Irritant Category 2 (H319)
Skin Irritant Category 2 (H315)
Skin Sensitizer Category 1 (H317)
Specific target organ systemic toxicity – single exposure Category 3 (H335)
Acute Toxicity, Inhalation Category 4 (H332)
Aquatic Acute Toxicity Category 3 (H400)

EU Classification:

R40

2.2 Label Elements:

Danger!



Contains: Epoxy Resin, Tert-Butyl Acetate, 1-Butanol

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Hazard Phrases

H351	Limited evidence of a carcinogenic effect
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Precautionary Phrases

P202	Do not handle until all safety precautions have been read and understood
P281	Use personal protective equipment as required
P308+ P313	IF exposed or concerned: Get medical advice/attention
P501	Dispose of contents/container in accordance with local/regional/national/international 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	%
Aluminum Oxide	1344-38-1	215-691-6	N/A	NA	>90
Silicon Fused	7631-86-9	231-545-4	N/A	NA	<5
Titanium Dioxide	13463-67-7	236-675-5	N/A	NA	<5
Iron Oxide	1309-37-1	215-168-2	N/A	NA	<5
Titanium Dioxide	13463-67-7	236-675-5	N/A	H351	<5

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 remove contact lenses if possible, rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Skin: N/A

Inhalation: Supply fresh air; consult doctor in case of complaints, provide oxygen treatment if affected person has difficulty breathing.

Ingestion: Rinse out mouth and then drink plenty of water, Do Not induce vomiting; call for medical help immediately.

4.2 Most Important symptoms and effects, both acute and delayed: Coughing, Breathing difficulty, Gastric or intestinal disorders

4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media: Use fire extinguishing methods suitable for surrounding conditions, For safety reasons unsuitable extinguishing agents: NONE

5.2 Special Hazards Arising from the Substance or Mixture:

No further relevant information available

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5.3 Advice for Fire-Fighters:

Wear self-contained respiratory protective device; Wear fully protective suit
 Additional Information: No Further relevant information available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Use respiratory protective device against the effects of fumes/dust/aerosol
 For large spills, wear protective clothing
 Avoid formation of dust
 Ensure adequate ventilation

6.2 Environmental Precautions:

No special measures required

6.3 Methods and Material for Containment and Cleaning Up:

Pick up mechanically
 Send for recovery or disposal in suitable receptacles
 Dispose contaminated material as waste according to item 13

6.4 Reference to Other Sections:

See Section 7 for information on safe handling
 See Section 8 for information on personal protection equipment
 See Section 13 for disposal information

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling: Prevent formation of dust

Any unavoidable deposit of dust must be regularly removed.
 Do Not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.
 Use only in well ventilated areas
 Avoid breathing dust
 Information about fire and explosion protection: No special measures required.

7.2 Conditions for Safe Storage, Including any Incompatibilities:

Requirements to be met by storerooms and receptacles: No special requirements
Information about storage in one common storage facility: Store away from foodstuffs. Store away from oxidizing agents
Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Store receptacle in a well ventilated area. This product is hygroscopic.

7.3 Specific end use(s): Industrial use only

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Aluminum Oxide	PEL (USA)	Long-term value: 15*, 15** mg/m ³ *Total dust, ** Respirable fraction
	REL (USA)	Long-term value: 10* 5*mg/m ³ As Al* Total Dust **Respirable/pro powd/welding
	TLV (USA)	Long-term value: 1* mg/m ³ As AL; *as respirable fraction

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	EL (CANADA)	Long-term value: 10 mg/m ³ respirable, as Al
	EV (CANADA)	Long-term value: 10 mg/m ³ Total dust
Silicon Fused	PEL (USA)	See Quartz listing
	TLV (USA)	TLV withdrawn
	EV (CANADA)	Long-term value: 10 mg/m ³ respirable
Titanium Dioxide	PEL (USA)	Long-term value: 15* mg/m ³ *Total dust
	REL (USA)	See Pocket Guide App. A
	TLV (USA)	Long-term value: 10 mg/m ³ withdrawn from NIC
	EL (CANADA)	Long-term value: 10* 3** mg/m ³ *total dust; **respirable fraction; IARC 2B
	EV (CANADA)	Long-term value: 10 mg/m ³ Total dust
Iron Oxide	PEL (USA)	Long-term value: 10* 15** 5*** mg/m ³ *Fume; Rouge: ** Total Dust, ***respirable
	REL (USA)	Long-term value: 5mg/m ³ Dust & fume, as Fe
	TLV (USA)	Long-term value: 5* mg/m ³ *as respirable fraction
	EL (CANADA)	Short-term value: 10** mg/m ³ Long-term value: 5* 10*** 3**** mg/m ³ *dust & fume **fume; Rouge: ***total dust ****resp.
	EV (CANADA)	Long-term value: 5* 10** mg/m ³ *respirable, including Rouge; **total dust

8.2 Exposure Controls:

Ventilation: Use with adequate general or local exhaust ventilation.

Personal Protective Equipment:

Respiratory Protection: Suitable respiratory protective device recommended.

Use suitable respiratory protective device in case of insufficient ventilation.

Skin Protection: Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388.

Gloves are advised for repeated or prolonged contact.

The glove material has to be impermeable and resistant to the product/the substance/the preparation.

Eye Protection: Safety Glasses

Other Protective Equipment: Not required under normal conditions of use.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic Physical and Chemical Properties:

Appearance: Solid Granular Product	Vapor Density: No data available
Odor: Mild odor	Specific Gravity: Not available
Odor Threshold: No data available	Solubility: Insoluble
pH: Not available	Octanol/Water Partition Coefficient: No data available
Melting Point/Freezing Point: No data available	Autoignition Temperature: No data available
Boiling Point: Not available	Decomposition Temperature: No data available
Flash Point: Not available	Viscosity: No data available
Evaporation Rate: Not available	Explosive Properties: Not explosive
Flammable Limits: Not 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	

9.2 Other Information: No further relevant information available.

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: Reacts with strong acids, Reacts with oxidizing agents, Reacts with strong alkali.

10.4 Conditions to Avoid: No further relevant information available.

10.5 Incompatible Materials: No further relevant information available.

10.6 Hazardous Decomposition Products: Toxic metal oxide smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Acute Toxicity: N/A

Primary irritant Effect: N/A

On the Skin: No irritant effect.

On the Eye: Slight irritant effect on eyes.

Sensitisation: No sensitizing effects known.

Repeated Dose Toxicity: May cause damage to organs through prolonged or repeated exposure.

CMR Effects (carcinogenicity, mutagenicity and toxicity for reproduction): Based on IARC classifications and not the CLP classification. Carc. 2

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

Aquatic Toxicity: General not hazardous for water

Kaolin: No information available/not relevant

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12.2 Persistence and Degradability: Inorganic product is not eliminable from water by means of biological cleaning processes.

12.3 Bioaccumulative Potential: Does Not accumulate in organisms.

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:

Recommendation

Smaller quantities can be disposed of with household waste.

Can be reused after reprocessing.

Contact waste processors for recycling information.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

Uncleaned Packaging:

Recommendation: Disposal must be made according to official 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		Not Regulated			
Canadian TDG		Not Regulated			
EU ADR/RID		Not Regulated			
IMDG		Not Regulated			
IATA/ICAO		Not Regulated			

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:

United States (USA)

SARA

Section 355 (extremely hazardous substances): None of the ingredients are listed.

Section 313 (specific toxic chemical listing): None of the ingredients are listed,

TSCA (Toxic Substances Control Act): All ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer: 13463-67-7 Titanium Dioxide

Chemicals known to cause reproduction toxicity for females: None of the ingredients are listed

Chemicals known to cause reproduction toxicity for males: None of the ingredients are listed

Chemicals known to cause developmental toxicity: None of the ingredients are listed

Carcinogenic Categories

EPA (Environmental Protection Agency): None of the ingredients are listed

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IARC (International Agency for Research on Cancer): 13463-67-7 Titanium Dioxide **2B**
TLV (Threshold Limit Value established by ACGIH): 1344-28-1 Aluminum Oxide 13463-67-7 Titanium Dioxide **A4**
NIOSH-CA (National Institute of Occupational Safety and Health): 13463-67-7 Titanium Dioxide

Canada

Canadian Domestic Substances List (DSL): All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%): None of the ingredients are listed.

Canadian Ingredient Disclosure list (limit 1%):

1344-28-1 Aluminum Oxide

7631-86-9 Silicon dioxide, chemically prepared

Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Substances of very high concern (SVHC) according to REACH, Article 57: None of the ingredients are listed

15.2 Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: OTHER INFORMATION

HMIS Ratings: Health - 1

Flammability - 0

Physical Hazard - 0

NFPA Ratings: Health - 1

Flammability - 0

Instability - 0

SDS Revision History:

5/28/21: New SDS

9/15/21: Revised

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Additional Information:

- The accumulation of airborne dust particles may lead to health and safety risks in some cases. The uses of good industrial practices with mitigate this risk.
- The health risks from inhalation of dust particles vary; this is due to particle concentration, exposure length, number of exposures and type of particles inhaled. Please read Section 2,4,6,7 and 8 of the SDS to understand these potential risks. Wear personal protective equipment and follow storage and handling procedures to maintain a safe workplace.
- In rare instances, combustible dusts may represent a potential explosion hazard when airborne. This hazard is often associated with organic dust such as foodstuffs and coal, but may also occur with mineral products.

Relevant Phrases

H351 Suspected of causing cancer.

Abbreviations and Acronyms:

ADR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstract Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Material Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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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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