

TufDek

[®]

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
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Product Name: TufDek[®]
Version: 2
Identifier 1: Vinyl Laminate (without ink and clear coat)
Identifier 2: 54083, 54084
Chemical Family: Plastic Laminate, Plastic Sheet
Product Use: Secondary Containment

Company Information: Plastatech[®] Engineering Ltd.
 725 Morley Dr.
 Saginaw, MI 48601
 Phone: (800) 892-9358
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Emergency Phone (24 hours): INFOTRAC
 1-800-535-5053 (US & Canada)
 1-352-323-3500 (International)

SECTION 2	HAZARD(S) IDENTIFICATION
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Hazard Classification: As defined in the OSHA Hazard Communication Standard, 29 CFR 1910.1200, this product is considered an article and does not require an SDS. In addition, articles are not included in the scope of the Globally Harmonization System (GHS). As such, the GHS labeling elements are not included on this SDS. All components listed for this product are bound within the product. When handled as intended and under normal conditions of use, there is no evidence that any of the ingredients are released in amounts that pose a significant health risk. Although these products are not subject to the OSHA Standard or GHS labeling elements, Plastatech[®] Engineering, Ltd. would like to disclose as much health and safety information as possible to ensure that this product is handled and used properly. This SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and be made available for employees and other users of this product. In addition, the recommendations for handling and use of these products should be included in worker training programs.

Pictogram(s): N/A

Signal Word: N/A

Hazard Statements: N/A

Precautionary Statements: N/A

Additional Optional Hazards:

- Environmental Hazards**
- Acute Aquatic Toxicity, Category 3
- Chronic Aquatic Toxicity, Category 3
- Acute Hazard to the Aquatic Environment, Category 1
- Long-Term Hazard to the Aquatic Environment, Category 1



SECTION 3**COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous Ingredients**

Chemical Name	CAS Number	Concentration (%)
Ethene, Chloro-, Homopolymer	9002-86-2	Trade Secret
Titanium Dioxide*	13463-67-7	Trade Secret
Antimony Trioxide*	1309-64-4	Trade Secret
Carbon Black*	1333-86-4	Trade Secret
Amorphous Silica (Silicon Dioxide)*	7631-86-9	Trade Secret

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

*The hazards of the listed Titanium Dioxide (13263-67-7), Antimony Trioxide (1309-64-4), Carbon Black (1333-86-4), and Amorphous Silica (Silicon Dioxide) (7631-86-9) are for their powder unbound forms. When the chemicals are used in applications such as textures or coatings, the chemicals become bound and are not in their hazardous form.

SECTION 4**FIRST-AID MEASURES**

Inhalation:	If affected: Move to fresh air. Restore breathing. Consult a physician after significant exposure, or feeling unwell.
Skin Contact:	Wash off with soap and plenty of water. If symptoms persist, call a physician.
Eye Contact:	Immediately flush eye(s) with plenty of water. Remove contact lenses, if present, and easy to do so. Keep eye(s) wide open while rinsing. If irritation develops, consult a specialist.
Ingestion:	Clean mouth with water and drink plenty of water afterwards. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.
Most Important Symptoms and Effects, Both Acute and Delayed:	Possible irritant effects.
Protection of First-Aiders:	Move out of dangerous area. Consult a physician. Show this Safety Data Sheet to the doctor in attendance.
Notes to Physician:	Treat symptomatically.

SECTION 5**FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media:	Dry chemical, Carbon Dioxide, water spray or foam.
Hazardous Combustion Products:	Hydrogen Chloride gas, Carbon Monoxide, and Carbon Dioxide. Hazardous emissions may occur during processing at elevated temperatures.

Specific Precautionary Methods:	N/A
Special Protective Equipment for Firefighters:	In the event of fire, wear self-contained breathing apparatus, if appropriate.
Decomposition Products:	Thermal decomposition may produce toxic fumes of Carbon Monoxide, Carbon Dioxide, and Hydrogen Chloride.

SECTION 6**ACCIDENTAL RELEASE MEASURES**

Handling Precautions:	Use personal protective equipment as required during use. Deny access to unprotected persons.
Environmental Precautions:	Do not flush into or allow material to enter surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
Cleanup:	N/A
Regulatory Requirements:	Follow applicable OSHA regulations (29 CFR 1940.120).

SECTION 7**HANDLING AND STORAGE**

Handling Precautions:	Avoid exceeding the given occupational exposure limits (see Section 8). For personal protection, see Section 8. Smoking, eating, and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products.
Storage Requirements:	Observe label precautions. Store in accordance with local regulations.

SECTION 8**EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Limits**

Component	CAS Number	Basis***	Value	Exposure Limit(s)* / Form of Exposure
Ethene, Chloro-, Homopolymer	9002-86-2	N/A	N/A	N/A
Antimony Trioxide**	1309-64-4	OSHA	TWA	0.5 mg/m ³
		ACGIH	TLV	0.5 mg/m ³
Titanium Dioxide**	13463-67-7	OSHA	TWA	15 mg/m ³ (Total Dust)
		ACGIH	TLV	10 mg/m ³ (Total Dust)
Carbon Black**	1333-86-4	ACGIH	TWA	3 mg/m ³
		OSHA	TWA	3.5 mg/m ³
		NIOSH	IDLH/TWA	IDLH 1750 mg/m ³ TWA 3.5 mg/m ³
Amorphous Silica (Silicon Dioxide)**	7631-86-9	OSHA	TWA	5 mg/m ³ (Respirable Fraction)
		CCOHS	OEL	15 mg/m ³ (Total Dust)
		CCOHS	TWA	1.5 mg/m ³

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this Safety Data Sheet.

**The hazards of the listed Titanium Dioxide (13263-67-7), Antimony Trioxide (1309-64-4), Carbon Black (1333-86-4), and Amorphous Silica (Silicon Dioxide) (7631-86-9) are for their powder unbound forms. When the chemicals are used in applications such as textures or coatings, the chemicals become bound and are not in their hazardous form.

*****Basis**

ACGIH. Threshold Limit Values (TLV)

CCOHS. Occupational Exposure Limits (OEL)

OSHA P0. Table Z-1, Limit for Air Contaminant (1989 Vacated Values)

OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant

OSHA P2. Permissible Exposure Limits (PEL), Table Z-2

OSHA Z3. Table Z-3, Mineral Dust

NIOSH. Immediately Dangerous to Life or Health (IDLH), Time-Weighted Average (TWA)

Engineering Measures:

Use product in a well ventilated area. Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Personal Protective Equipment:**Respiratory Protection**

Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand Protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye Protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace.

Hygiene Measures

Avoid contact with skin, eyes, and clothing.

Wash hands before breaks and immediately after handling the product.

Remove contaminated clothing and protective equipment before entering eating areas.

Wash thoroughly after handling.

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Vinyl Laminate
Physical State:	Solid
Specific Gravity:	1.2 – 1.4
Boiling Point:	> 350°F (> 177°C)
Odor:	Slight Vinyl Odor
Solubility:	Insoluble
Freezing/Melting Point:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A

SECTION 10

STABILITY AND REACTIVITY

Hazardous Polymerization:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	The product is chemically stable.
Hazardous Decomposition Products:	Hydrogen Chloride gas, Carbon Monoxide, and Carbon Dioxide.
Conditions to Avoid:	Extreme temperatures can lead to decomposition of product.
Materials to Avoid:	Strong oxidizing agents.

SECTION 11

TOXICOLOGICAL INFORMATION

Toxicity

Hazardous Ingredient Name	Acute or Chronic?	Oral LD ₅₀	Dermal LD ₅₀	Dermal LC ₅₀
Carbon Black*	Chronic	> 15,400 mg/kg (rat)	> 3 g/kg (rabbit)	NE**
Titanium Dioxide*	Chronic	> 10,000 mg/kg (rat)	> 10,000 mg/kg (hamster)	NE**
Ethene, Chloro-, Homopolymer	No	NE**	NE**	NE**
Antimony Trioxide*	Chronic	> 20 g/kg (rat)	NE**	NE**
Amorphous Silica (Silicon Dioxide)*	Chronic	> 3,300 mg/kg (rat)	> 5,000 mg/kg (rat)	Inhalation LC50 > 0.14 - > 2.0 mg/L

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**NE = No Evidence

Irritation:	Possible skin irritation. Possible eye irritation.
Sensitization:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Other:	Exposures to respirable Crystalline Silica are not expected during normal use of this product. Prolonged and repeated exposure to airborne free respirable Crystalline Silica can result in lung disease (Silicosis). The risk of developing Silicosis is dependent upon the exposure intensity and duration.

SECTION 12

ECOLOGICAL INFORMATION

Environmental Data

Components	Species	Test Results
Carbon Black	<i>Brachydanio rerio</i>	LC50; Dose: > 1,000 mg/L; Exposure time: 96 h (OECD Guideline 203)
	<i>Daphnia magna</i>	EC50; Dose: > 5,600 mg/L; Exposure time: 24 h (OECD Guideline 202)
	<i>Scenedesmus subspicatus</i>	EC50; Dose: > 10,000 mg/L; Exposure time: 72 h (OECD Guideline 201)
	Activated Sludge	EC0; Dose: ≥400 mg/L; Exposure time: 3 h
	Activated Sludge	EC10; Dose: ca. 800 mg/L; Exposure time: 3 h
Antimony Trioxide	<i>Danio rerio</i>	LC50; Dose: > 1,000 mg/L; Exposure time: 96 h
	<i>Daphnia magna</i>	EC50; Dose: > 1,000 mg/L; Exposure time: 48 h

	<i>Selenastrum capricornutum</i>	EC50; Dose: > 67 mg/L; Exposure time: 72 h
Amorphous Silica (Silicon Dioxide)	<i>Phylum chordata</i>	EC50; Dose: > 1,000 mg/L
	<i>Daphnia magna</i>	EC50; Dose: > 1,000 mg/L
	<i>Brachydanio rerio</i>	LC50; Dose: 5,000 mg/L (static); Exposure time: 96 h
	<i>Pseudokirchneriella subcapitata</i>	EC50; Dose: 400 mg/L; Exposure time: 48 h
	<i>Ceriodaphnia dubia</i>	EC50; Dose: 7,600 mg/L; Exposure time: 48 h

Other Information: This product contains biocide which can be toxic to aquatic life with long lasting effects.

Dispose of this material and its container in accordance with federal, state and local regulations.

SECTION 13

DISPOSAL CONSIDERATIONS

Disposal Methods:

Waste from Residues

This product, as supplied, is not regulated as a hazardous waste by the U.S. Environmental Protection Agency (EPA) under Resource Conservation and Recovery Act (RCRA) regulations. Disposal of this product, solutions, and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any federal, state and local authority requirements.

SECTION 14

TRANSPORT INFORMATION

DOT:

Not Regulated.

Emergency Response Guide (ERG):

Not Applicable.

SECTION 15

REGULATORY INFORMATION

TSCA List:

All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

CERCLA Reportable Quantity:

This material contains Antimony Trioxide (1309-64-4) with a CERCLA RQ of 1,000lbs.

SARA 304 Reportable Quantity:

This material contains the following component with a section 304 EHS RQ:

Antimony Trioxide (1309-64-4): 1,000lbs.

SARA 302:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act:

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Ozone-Depletion Potential: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

California Prop 65: **WARNING:** This product can expose you to chemicals including Antimony Trioxide, Amorphous Silica, Carbon Black, and Titanium Dioxide, which are known to the State of California to cause [cancer](#). For more information, go to www.P65Warnings.ca.gov.

SECTION 16

OTHER INFORMATION

Previous Editions: First Edition: 05/14/2014
First Published: 08/29/2018
Revised: 08/09/2019

Further Information: This SDS was prepared in accordance with OSHA regulatory standards for Toxic and Hazardous Substances: 29 CFR 1910.1200

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However Plastatech® Engineering, Ltd. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with care. Although Plastatech® Engineering, Ltd. has described herein all of the hazards to which we are currently aware, we cannot guarantee that these are the only hazards which exist.

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