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SECTION 1: IDENTIFICATION

Product Identifier

Product Name: DragoSeal® Tape

Intended Use of the Product

Accessory of Drago® Wrap Vapor Intrusion Barriers; used to seal seams and penetrations in Drago Wrap.

Company Name, Address, and Telephone of the Responsible Party

Stego Industries, LLC

216 Avenida Fabricante #101

San Clemente, CA 92672 USA

Main Contact Number: (877) 464-7834

Emergency Telephone Number

Emergency Number: 1 (800) 424-9300 (24 Hrs.) CHEMTREC

SECTION 2: HAZARDS IDENTIFICATION

Physical Hazards: Not classified.

Health Hazards: Not classified.

Environmental Hazards: Not classified.

OSHA Defined Hazards: Not classified.

Label Elements

Hazard Symbol: None.

Signal Word: None.

Hazard Statement: The mixture does not meet the criteria for classification.

Precautionary Statements

Prevention: Observe good industrial hygiene practices.

Response: Wash hands after handling.

Storage: Store away from incompatible materials.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) Not Otherwise Classified (HNOC): Polymer film can burn if exposed to excessive temperatures beyond the normal use of the product.

Supplemental information: None.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	% by WT.
Polymeric Film	Mixture	10 - 20%
Talc (powder)	14807-96-6	8 - <17%
Titanium Dioxide	13463-67-7	0.5 - 2.5%
Other components below reportable levels		58 - 67%

The selections marked with an '*' are proprietary and considered to be Trade Secrets. This is the reason that they are listed as such, or provided as a range.

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SECTION 4: FIRST AID MEASURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Inhalation: Not a respirable film. If exposed to fumes from combustion, move subject to fresh air; if breathing is difficult, give oxygen and get medical attention; if victim has stopped breathing, give artificial respiration and get medical attention.

Eye Contact: Not a probable route of exposure. If exposed to fumes from overheating or from combustion, move subject to fresh air. Flush with plenty of water; if irritation continues, get medical attention.

Skin Contact: Wash off with soap and water. Get medical attention if irritation develops and persists. For thermal burns, cool molten materials with water and get medical attention.

Ingestion: Rinse mouth. Get medical attention if symptoms occur.

Most important Symptoms/Effects, Acute and Delayed: Direct contact with eyes may cause temporary irritation.

Indication of Immediate Medical Attention and Special Treatment Needed: Treat symptomatically.

General information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5: FIRE-FIGHTING MEASURES

Unusual Hazards: Polymer film can burn if exposed to excessive temperature beyond the normal use of the product.

Extinguishing Agents: No unusual fire or explosion hazards noted.

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire: carbon dioxide, foam, dry chemical, and water fog. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

Personal Protective: Equipment unnecessary unless resin is burned, which is not an intended use of the product. If resin is burning, wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Specific Hazards Arising From The Chemical: During fire, gases hazardous to health may be formed.

Fire-Fighting Equipment/Instructions: Use water spray to cool unopened containers.

Specific Methods: Use standard firefighting procedures and consider the hazards of other involved materials.

Note: See Section 10 for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Keep unnecessary personnel away. For personal protection, see Section 8 of SDS.

Methods and Materials for Containment and Cleaning Up: This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Following product recover, flush area with water. For waste disposal, see Section 13 of SDS.

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling: Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for Safe Storage, Including Any Incompatibilities: Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Cool, dry storage recommended. Indoor storage recommended.

Installation Temperature Range: 40-110°F (surface and ambient).

In-Service Temperature Range: -20-140°F (surface and surrounding).

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SECTION 7: HANDLING AND STORAGE *Continued...*

Exposure to Ultraviolet Radiation/Weather Events: The amount of time between when DragoSeal Tape is installed and when concrete is placed or other complete protection from sunlight and weather events is provided should be minimized while not exceeding 7 days.

Please review the remainder of the SDS and relevant technical data sheets for storage and additional information. If any of the conditions cited above pose a problem for the typical installation of the DragoSeal Tape, please contact Stego Industries for additional information and solutions.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Titanium Dioxide (CAS 13463-67-7)	PEL	15 mg/m ³	Total dust

US OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Talc (powder) (CAS 14807-96-6)	TWA	0.3 mg/m ³	Total dust
		0.1 mg/m ³	Respirable
		20 mppcf	
		2.4 mppcf	Respirable

US ACGIH Threshold Limit Values

Components	Type	Value	Form
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m ³	Respirable fraction
Titanium Dioxide (CAS 13463-67-7)	TWA	10 mg/m ³	

US NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Talc (powder) (CAS 14807-96-6)	TWA	2 mg/m ³	Respirable

Biological Limit Values: No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual Protection Measures, Such As Personal Protective Equipment

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Hand Protection: Wear appropriate chemical resistant gloves.

Other Skin Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. Local exhaust to remove fumes from heat sealing and hot wire cutting areas of packaging or bag converting for worker comfort.

Thermal Hazards: Wear appropriate thermal protective clothing, when necessary.

Engineering Controls (Ventilation)

Use local exhaust ventilation when routinely heat sealing this product. Recommended ventilation is with a minimum capture velocity of 100 ft/min. (30 m/min.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

General Hygiene Considerations: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

General Physical Form: Polyolefin film and synthetic rubber adhesive.

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Single-sided tape
Color	Grey
State	Solid
Odor Characteristics	Slight
Odor Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not available
Initial Boiling Point and Boiling Point Range	Not available
Flash Point	> 428.0°F (> 220°C)
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Upper Flammability	Not available
Lower Flammability	Not available
Explosive Limit – Lower	Not available
Explosive Limit – Upper	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Relative Density	Not available
Solubility in water	Not available
Partition Coefficient: n-octanol/water	Not available
Auto ignition-temperature	>842°F (>450°C)
Decomposition temperature	>325°C (617°F)
Viscosity	Not applicable
Volatile Organic Compounds	No data available
Percent Volatile	Not applicable
VOC less H2O and Exempt Solvents	No data available
Density	1.04 g/cm ³ estimated
Specific Gravity	1.04 estimated

SECTION 10: STABILITY AND REACTIVITY

Instability: This material is considered stable. However, temperatures above 350°C, is the onset of polymer decomposition. Thermal decomposition is dependent on time and temperature.

Hazardous Decomposition Products

Substance	Condition
Hydrocarbons	Combustion by-product
Carbon Monoxide	Combustion by-product
Carbon Dioxide	Combustion by-product

Hazardous Polymerization: Product will not undergo hazardous polymerization. Product does not decompose at ambient temperatures.

Reactivity: The product is stable and non-reactive under normal conditions of use, storage, and transport.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur.

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SECTION 10: STABILITY AND REACTIVITY *Continued...*

Conditions to Avoid: Avoid temperatures exceeding the flash point, contact with incompatible materials.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition: Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

SECTION 11: TOXICOLOGICAL INFORMATION

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

ACUTE EFFECTS OF EXPOSURE

Ingestion: Expected to be a low ingestion hazard.

Inhalation: Prolonged inhalation may be harmful. No inhalation risk unless product is heated to point of burning, which in normal applications does not occur. Fumes from combustion are unlikely to be produced during heat shrinking. Local ventilation should be used for comfort.

Eye contact: Direct contact with eyes may cause temporary irritation. Low eye exposure risk during all product usage except during heating if plastic is heated to point of combustion, which does not occur during the intended use of the product. Fumes from combustion, which have a low toxicity, may be produced during hot wire cutting or heat sealing. Fumes are unlikely to be produced during heat shrinking when used as directed.

Skin contact: No adverse effects due to skin contact are expected. Not irritating when used as directed. Hot polymer created during heat shrinking, wire cutting, or heat sealing, may produce thermal burns.

Information On Toxicological Effects

Acute Toxicity: Not available.

Skin Corrosion/Irritation: Prolonged skin contact may cause temporary irritation.

Serious Eye Damage/Eye Irritation: Direct contact with eyes may cause temporary irritation.

Chronic Effects of Exposure: None known when used as directed. Prolonged inhalation may be harmful.

Symptoms related to the physical, chemical and toxicological characteristics: Direct contact with eyes may cause temporary irritation.

Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.

Specific Target Organ Toxicity – Single Exposure: Not classified.

Specific Target Organ Toxicity – Repeated Exposure: Not classified.

Aspiration Hazard: Not available.

Respiratory Or Skin Sensitization

Respiratory Sensitization: Not available.

Skin Sensitization: This product is not expected to cause skin sensitization.

Germ Cell Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Talc (powder) (CAS 14807-96-6)

2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans.

Titanium Dioxide (CAS 13463-67-7)

2B Possibly carcinogenic to humans

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product	Species	Test Results
DragoSeal Tape (CAS Mixture)		
Aquatic		
Crustacea	EC50	Daphnia
Fish	LC50	Fish
		85901.6564 mg/l, 48 hours estimated
		85901.6564 mg/l, 96 hours estimated
Components	Species	Test Results
Titanium Dioxide (CAS 13463-67-7)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Mummichog (Fundulus heteroclitus)
		>1000 mg/l, 48 hours
		>1000 mg/l, 96 hours

*Estimates for product may be based on additional component data not shown.

Persistence And Degradability: No data is available on the degradability of this product.

Bioaccumulative Potential: Not available.

Mobility In Soil: No data available.

Other Adverse Effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local Disposal Regulations: Dispose in accordance with all applicable regulations. Reclaim if feasible. If product can't be reclaimed, no additional special requirements are necessary; dispose of as ordinary solid waste. Pick up film for good "housekeeping" and to prevent a slipping hazard. Incineration or landfill in compliance with federal, state and local regulations. Since regulations vary, consult applicable regulations or authorities before disposal.

Hazardous Waste Code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste From Residues / Unused Products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see; disposal instructions).

Contaminated Packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

SECTION 14: TRANSPORT INFORMATION

DOT: Not regulated as dangerous goods.

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

General Information: DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

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SECTION 15: REGULATORY INFORMATION

US Federal Regulations: All components are on the US EPA TSCA Inventory List. The product is not known to be a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFT 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4): Not listed.

SARA 304 Emergency Release Notification: Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories

Immediate Hazard – No

Delayed Hazard – No

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard – No

SARA 302 Extremely Hazardous Substance: Not listed.

SARA 311/312 Hazardous Chemical: No.

SARA 313 (TRI reporting): Not regulated.

Other Federal Regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated.

Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130): Not regulated.

Safe Drinking Water Act: Not regulated.

US State Regulations

US Massachusetts RTK – Substance List:

Talc (powder) (CAS 148007-96-6)

Titanium Dioxide (CAS 13463-67-7)

US New Jersey Worker and Community Right-to-Know Act:

Talc (powder) (CAS 148007-96-6)

Titanium Dioxide (CAS 13463-67-7)

US Pennsylvania Worker and Community Right-to-Know Law:

Talc (powder) (CAS 148007-96-6)

Titanium Dioxide (CAS 13463-67-7)

US Rhode Island RTK: Not regulated.

US California Proposition 65: Titanium Dioxide is listed due to its respirable nature in powder form. As supplied and applied the titanium dioxide is bound within the product matrix and is not expected to be in a respirable form.

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

US – California Proposition 65 – CRT: Listed date/Carcinogenic substance:

Titanium Dioxide (CAS 13463-67-7) Listed September 2, 2011.

International Inventories

Country(s) or region	Inventory name	On Inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substance List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No

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SECTION 15: REGULATORY INFORMATION *Continued...*

Country(s) or region	Inventory name	On Inventory (yes/no)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

* A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

SECTION 16: OTHER INFORMATION

NFPA HAZARD RATING

Health: 0 | Flammability: 1 | Reactivity: 0 | Special Hazards: None

Scale: 4 = Extreme | 3 = High | 2 = Moderate | 1 = Slight | 0 = Insignificant

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material, but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Rating are based on internal supplier's guidelines, and they are intended for internal use only.

ABBREVIATIONS:

ACGIH = American Conference of Governmental Industrial Hygienists

OSHA = Occupational Safety and Health Administration

TLV = Threshold Limit Value

PEL = Permissible Exposure Limit

TWA = Time Weighted Average

STEL = Short-Term Exposure Limit

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