

# SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

## 1. Identification

**Product identifier:** VESTOSINT® Z2657

### Other means of identification

None.

### Recommended restrictions

**Recommended use:** Powder for coating metallic and non-metallic surfaces

**Restrictions on use:** Not determined.

### Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation  
299 Jefferson Road  
Parsippany, NJ 07054  
USA

Telephone : +1 973 929 8000

Fax : +1 973 929 8040

E-mail : product-regulatory-services@evonik.com

### Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)

Emergency : +1 800 681 9531 (CHEMTREC MEXICO)

+1 703 527 3887 (CHEMTREC WORLD)

## 2. Hazard(s) identification

### Hazard Classification

#### Physical Hazards

Combustible dust

Category 1

### Label Elements

**Hazard Symbol:** No symbol

**Signal Word:** Warning

**Hazard Statement:** May form combustible dust concentrations in air.

#### Precautionary Statements

**Prevention:** Use with adequate ventilation. Avoid generation or accumulation of dust.

**Response:** If inhaled, remove to fresh air. If symptoms persist, consult a physician for treatment. IN CASE OF FIRE, use water spray or fog, foam, dry chemical or CO<sub>2</sub>. Collect in a chemical waste container. Use only vacuum cleaners approved for combustible dust collection.

**Hazard(s) not otherwise classified (HNOC):** None.

### 3. Composition/information on ingredients

#### Mixtures

**Composition Comments:** moulding compound on the base: polyamide depending on grade: modified, polymer-modified

**Composition Comments:** This sheet describes a group of products. It only contains safety-relevant data. For specific data, see Product Information sheet.

### 4. First-aid measures

#### Description of necessary first-aid measures

**General information:** Pay attention to self-protection. Move out of dangerous area. Keep warm, position comfortably, and cover well. Do not leave affected persons unattended.

**Inhalation:** In case of symptoms of irritation caused by vapours in thermal processing: Provide fresh air, seek medical advice if necessary. Following inhalation of product dust: See that there is fresh air.

**Skin Contact:** Cool melted product on skin with plenty of water. Do not remove solidified product. In case of burns by molten product medical treatment is necessary.

**Eye contact:** Rinse with plenty of water. Obtain medical attention if irritation develops.

**Ingestion:** If swallowed, get medical attention immediately. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person.

**Personal Protection for First-aid Responders:** As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

#### Most important symptoms/effects, acute and delayed

**Symptoms:** No experiences of acute or chronic damages in humans have been made as yet.

**Hazards:** Risk of skin burns caused by hot melt.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** Continue with first aid measures. Depending on the pathology and clinical findings, patient monitoring and symptomatic treatment are necessary.

## 5. Fire-fighting measures

### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Water spray, foam, dry powder or carbon dioxide.

**Unsuitable extinguishing media:** high volume water jet

**Specific hazards arising from the chemical:** May be released in case of fire: carbon monoxide, carbon dioxide, nitric oxides, organic products of decomposition. Under certain fire conditions, traces of other toxic products may occur.

### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** In case product dust is released: Dust mask

**Accidental release measures:** If dust is present, control smoking, open flames, sparks, static electricity and friction heat.

**Methods and material for containment and cleaning up:** Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Dusts might form explosive mixtures with air. Use only vacuum cleaners approved for combustible dust collection. Use cleaning techniques that do not generate dust clouds if ignition sources are present.

**Environmental Precautions:** Do not release into the environment. Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

## 7. Handling and storage

### Handling

**Technical measures (e.g. Local and general ventilation):**

In case of thermal processing, provide for extraction of the vapours or adequate ventilation. In case of dust being formed, provide for adequate extraction. Avoid dust formation and control ignition sources. Employ grounding, venting and explosion relief provisions in accordance with accepted engineering practices in any process capable of generating dust and/or static electricity.

To identify additional system design issues with respect to dust hazards, it is recommended to conduct a dust hazard analysis using information and sources provided in the OSHA Fact Sheet on combustible dusts (DSG 3/2008) and addressing enforcement issues identified in the Combustible Dust National Emphasis Program (Reissued) (CPL 03-00-008, 3/11/08)

**Safe handling advice:**

Use dust collection systems and filters. Minimize the escape of dust from process equipment and ventilation systems. Utilize surfaces that minimize dust accumulation and facilitate cleaning. Dust accumulations should be avoided to prevent secondary dust explosions. Avoid dust formation. Provide for appropriate exhaust ventilation and dust collection at machinery. In case of thermal processing, provide for extraction of the vapours or adequate ventilation. In thermal processing: Risk of skin burns

**Contact avoidance measures:**

No data available.

**Hygiene measures:**

Smoking, eating and drinking should be prohibited in the application area.

**Storage**
**Safe storage conditions:**

General rules of fire prevention should be observed. If dusts are formed: Take precautionary measures against static charges, keep away from sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not allow dust to collect in open or hidden areas. In product transfer systems involving the use of air as a fluidizing medium, the user must be sure to dissipate static charge by careful bonding and grounding of all equipment and personnel involved in fluid transfer, with continuity checks to prove effectiveness. Additional guidance on fire and explosion protection may be found in the consensus standard NFPA 654 for chemical dusts.

**Safe packaging materials:**

No data available.

<b>8. Exposure controls/personal protection</b>
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**Control Parameters**
**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
exposure limit for dust - Respirable particles.	TWA	3 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (03 2016)
exposure limit for dust - Inhalable particles.	TWA	10 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values, as amended (03 2016)
exposure limit for dust - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
exposure limit for dust - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
exposure limit for dust - Total dust.	TWA	15 mg/m <sup>3</sup>	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)

exposure limit for dust - Respirable fraction.	TWA	5 mg/m <sup>3</sup>	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)
exposure limit for dust - Total dust.	TWA	15 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
exposure limit for dust - Respirable fraction.	TWA	5 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)
exposure limit for dust - Total dust.	TWA	15 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
exposure limit for dust - Respirable fraction.	TWA	5 mg/m <sup>3</sup>	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)
exposure limit for dust - Total dust.	TWA PEL	10 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)
exposure limit for dust - Respirable fraction.	TWA PEL	5 mg/m <sup>3</sup>	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)

### Appropriate Engineering Controls

In case of thermal processing, provide for extraction of the vapours or adequate ventilation. In case of dust being formed, provide for adequate extraction. Avoid dust formation and control ignition sources. Employ grounding, venting and explosion relief provisions in accordance with accepted engineering practices in any process capable of generating dust and/or static electricity.

To identify additional system design issues with respect to dust hazards, it is recommended to conduct a dust hazard analysis using information and sources provided in the OSHA Fact Sheet on combustible dusts (DSG 3/2008) and addressing enforcement issues identified in the Combustible Dust National Emphasis Program (Reissued) (CPL 03-00-008, 3/11/08)

### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Wear safety glasses with side shields.

#### Skin Protection

**Hand Protection:** Additional Information: Any areas of skin covered with dust must be washed immediately with soap and water as the powder draws out natural moisture from the skin., Use barrier cream regularly. Additional Information: Use impermeable gloves., Protective heat-insulating gloves are to be used during thermal processing.

**Skin and Body Protection:** A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

**Respiratory Protection:** Put on dust mask equipped with P1 particle filter if the occupational threshold limit value has been exceeded. Note time limit for wearing respiratory protective equipment. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

**Hygiene measures:** Smoking, eating and drinking should be prohibited in the application area.

## 9. Physical and chemical properties

### Appearance

<b>Physical state:</b>	solid
<b>Form:</b>	Powder
<b>Color:</b>	White
<b>Odor:</b>	odourless
<b>Odor Threshold:</b>	not determined, Not required by safety or application considerations.
<b>pH:</b>	Not applicable
<b>Melting Point:</b>	approx. 208 °C
<b>Boiling Point:</b>	Not applicable Decomposition
<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable
<b>Flammability (solid, gas):</b>	Not classified as a flammability hazard
<b>Explosive limit - upper (%):</b>	see Explosiveness
<b>Explosive limit - lower (%):</b>	see Explosiveness
<b>Vapor pressure:</b>	Not applicable
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	No data available.
<b>Relative density:</b>	1.0 - 1.2 (20 °C)
<b>Solubility in Water:</b>	Insoluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available. Not required by safety or application considerations.
<b>Self Ignition Temperature:</b>	The substance or mixture is not classified as self heating. The substance or mixture is not classified as pyrophoric.
<b>Decomposition Temperature:</b>	> 300 °C
<b>Kinematic viscosity:</b>	No data available. Not required by safety or application considerations.
<b>Dynamic viscosity:</b>	No data available. Not required by safety or application considerations.
<b>Other information</b>	
<b>Bulk density:</b>	450 g/l
<b>Explosive properties:</b>	Not explosive Dusts might form explosive mixtures with air.
<b>Oxidizing properties:</b>	The substance or mixture is not classified as oxidizing.
<b>Minimum ignition temperature:</b>	> 350 °C
<b>Formation of Flammable Gases:</b>	Substance or mixture, which in contact with water, does not emit flammable gas
<b>Metal Corrosion:</b>	Not corrosive to metals
<b>Peroxides:</b>	The substance or mixture is not classified as organic peroxide.

## 10. Stability and reactivity

<b>Reactivity:</b>	Under normal conditions: stable.
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions:</b>	Do not bring hot smelter into contact with water (steam formation!)

<b>Conditions to avoid:</b>	Keep away from all ignition sources including heat, sparks and flame.
<b>Incompatible Materials:</b>	None known.
<b>Hazardous Decomposition Products:</b>	carbon monoxide, carbon dioxide Nitrogen Oxides organic products of decomposition

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.
<b>Ingestion:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

<b>Oral Product:</b>	No data available.
<b>Dermal Product:</b>	No data available.
<b>Inhalation Product:</b>	No data available.

<b>Repeated dose toxicity Product:</b>	No data available.
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<b>Skin Corrosion/Irritation Product:</b>	No data available.
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<b>Serious Eye Damage/Eye Irritation Product:</b>	No data available.
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<b>Respiratory or Skin Sensitization Product:</b>	No data available.
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<b>Carcinogenicity Product:</b>	No data available.
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**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogens present or none present in regulated quantities

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogens present or none present in regulated quantities

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

No carcinogens present or none present in regulated quantities

**Germ Cell Mutagenicity****In vitro****Product:** No data available.**In vivo****Product:** No data available.**Reproductive toxicity****Product:** No data available.**Specific Target Organ Toxicity - Single Exposure****Product:** No data available.**Specific Target Organ Toxicity - Repeated Exposure****Product:** No data available.**Aspiration Hazard****Product:** No data available.**Other effects:**

No toxicological tests have been conducted with the product itself.

**12. Ecological information****Ecotoxicity:****Acute hazards to the aquatic environment:****Fish****Product:** No data available.**Aquatic Invertebrates****Product:** No data available.**Chronic hazards to the aquatic environment:****Fish****Product:** No data available.**Aquatic Invertebrates****Product:** No data available.**Toxicity to Aquatic Plants****Product:** No data available.**Persistence and Degradability**



**Biodegradation**  
Product: No data available.

**BOD/COD Ratio**  
Product: No data available.

**Bioaccumulative potential**  
**Bioconcentration Factor (BCF)**  
Product: No data available.

**Partition Coefficient n-octanol / water (log Kow)**  
Product: Log Kow: No data available. Not required by safety or application considerations.

**Mobility in soil:** No data available.

**Other adverse effects:** No ecotoxicological studies are available.

### 13. Disposal considerations

**Disposal methods:** Waste must be disposed of in accordance with federal, state, provincial and local regulations.

**Contaminated Packaging:** Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

### 14. Transport information

#### Domestic regulation

##### 49 CFR

Not regulated as a dangerous good

Remarks : Not dangerous according to transport regulations.

#### International Regulations

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### 15. Regulatory information

**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)**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories**

Not classified

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

None present or none present in regulated quantities.

**US. EPCRA (SARA Title III) Section 312 Extremely Hazardous Substances Reporting Quantities (40 CFR 355, Appendix A)**

Not regulated.

Not regulated.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**US State Regulations****US. California Proposition 65**

No ingredient requiring a warning under CA Prop 65.

**US. New Jersey Worker and Community Right-to-Know Act**

No ingredient regulated by NJ Right-to-Know Law present.

**US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

**US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

**Inventory Status:**

US TSCA Inventory:	On or in compliance with the inventory
Canada DSL Inventory List:	Not in compliance with the inventory.

**16. Other information, including date of preparation or last revision**
**HMIS Hazard ID**

<b>Health</b>	1
<b>Flammability</b>	0
<b>Physical Hazards</b>	0
<b>PERSONAL PROTECTION</b>	

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect

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**Version #:** 1.0

**Further Information:** No data available.

**Revision Information** Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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