

<b>Product name</b>	VECTRA® E463ID-3 VD3006 BLACK	<b>Revision Date</b>	TNA/EN
<b>MSDS number</b>	8721011816	<b>Issuing date</b>	Jun.28.2012
<b>Revision Number</b>	0.01		Jun.29.2012

## 1. Identification of the substance/preparation and of the company/undertaking

<b>Product name</b>	VECTRA® E463ID-3 VD3006 BLACK
<b>Material Number:</b>	21011816
<b>MSDS ID</b>	VE2020

### Manufacturer, importer, supplier

#### TICONA

8040 Dixie Hwy.  
Florence, KY 41042  
United States  
<http://www.ticona.com>

### Transportation emergency phone numbers:

In USA, call 800-424-9300  
Outside USA, call 703-527-3887, collect calls accepted

### Product Information

1-800-833-4882  
[prodinfo@ticona.com](mailto:prodinfo@ticona.com)

### Synonyms:

Liquid crystal polymer / LCP

### End Use:

Plastic processing industry.

## 2. Hazards identification

### Emergency Overview

Dust from this product can form an explosive organic dust cloud.  
Spilled pellets may present a slipping hazard.  
The molten product can cause serious burns.

### Potential health effects

#### Immediate effects

<b>Skin</b>	Polymer particles may cause mechanical irritation. The molten product can cause serious burns.
<b>Eyes</b>	Resin particles, like other inert materials, are mechanically irritating to eyes

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**Inhalation** Dust irritating to respiratory tract. Overheating in processing may generate hazardous, irritating vapours.

**Ingestion** May be harmful if swallowed.

**Medical conditions which may be aggravated by exposure:** No specific information available on the product. Off-gases, which may be released if overheated, may affect those with chronic diseases of the respiratory system.

### 3. Composition/information on ingredients

**Chemical characterization** Liquid crystal polymers / LCP, glass fiber reinforced

Components	CAS-No	Percent %
Carbon black	1333-86-4	1 - 5
Glass oxide; Fiberglass continuous filament	65997-17-3	5 - 60

This product may contain proprietary ingredients.  
 This is a polymeric material. Any hazardous constituents are wetted by the polymer system, and therefore are unlikely to present exposure under normal conditions of processing and handling.

### 4. First aid measures

**Skin**  
 Cool skin rapidly with cold water after contact with molten polymer. Immediate medical attention is required. Do not peel solidified product off the skin.

**Eyes**  
 Immediately flush eye(s) with plenty of water. Call a physician if irritation persists.

**Inhalation**  
 Move to fresh air in case of accidental inhalation of vapors. Get medical attention immediately if symptoms occur.

**Ingestion**  
 If swallowed, do not induce vomiting - seek medical advice.

**Notes to physician**  
 This product is essentially inert and nontoxic. However, if it is heated at too high a temperature or if it is burned, gases may be released. Patients who have been exposed to off-gases may need to have their arterial blood gases and carboxyhemoglobin levels checked. If the carboxyhemoglobin levels are normal, asphyxia (carbon dioxide replacing oxygen) is a possibility. As with any fire, irritant gases may have formed. If patients may have inhaled high concentrations of irritating fumes, they should be monitored for delayed onset pulmonary edema

### 5. Fire-fighting measures

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## 5. Fire-fighting measures

### Suitable extinguishing media

Water, Foam, Dry powder

### Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

### Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases

Under conditions giving incomplete combustion, hazardous gases produced may consist of  
carbon monoxide  
carbon dioxide (CO<sub>2</sub>)  
nitrogen oxides (NO<sub>x</sub>)

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

### Environmental precautions

Dike and collect water used to fight fire..

### Other Information

Potential dust explosion hazard. Keep people away from and upwind of fire.

## 6. Accidental release measures

### Personal precautions

Do not breathe dust. Avoid dust formation. Use adequate ventilation.

### Environmental precautions

No special precautions required.

### Methods for cleaning up

Use mechanical handling equipment.

## 7. Handling and storage

### Handling

#### Advice on safe handling

Do not handle hot or molten material without appropriate protective equipment. Maintain good housekeeping in work areas. Do not exceed recommended process temperatures to minimize release of decomposition products.

#### Protection - fire and explosion

Do not smoke in areas where polymer dust is present. Appropriate measures should be taken to control the generation and accumulation of dust during conveying and processing operations.

### Storage

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**Material storage**

Store in a cool dry place. Maintain dryness of resin.

**Incompatible products**

strong bases

**8. Exposure controls/personal protection**

**OSHA Exposure Limits**

Components	TWA
Carbon black	3.5 mg/m <sup>3</sup>

**ACGIH Exposure Limits**

Components	TWA
Carbon black	3.5 mg/m <sup>3</sup>
Glass oxide; Fiberglass continuous filament	5 mg/m <sup>3</sup> 1 fibers / cm <sup>3</sup>

**Mexico National Exposure Limits**

Components	LMPE - PPT	
Carbon black	3.5 mg/m <sup>3</sup>	
Glass oxide; Fiberglass continuous filament	10 mg/m <sup>3</sup>	

Components	STEL
Carbon black	7 mg/m <sup>3</sup>

Components	Mexican Carcinogen Category
Carbon black	A4

**Exposure controls**

**Engineering measures**

General: May not be adequate as the sole means to control employee exposure.

Local Exhaust: Recommended when appropriate to control employee exposure to dust or process vapors

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**Respiratory protection**

In case of insufficient ventilation wear suitable respiratory equipment

**Skin protection:**

When thermal or melt processing, wear long pants, long sleeves, well insulated gloves, and face shield when there is a chance of contact.

**Eye/face protection:**

Safety goggles. safety glasses with side-shields.

**Comments:**

Operations involving grinding and machining of parts should be reviewed to assure that particulate levels are kept below recommended standards

**9. Physical and chemical properties**

**Appearance**

<b>Form</b>	pellets
<b>Odor</b>	slight , specific .
<b>Molecular Weight</b>	> 20.000 (base resin)
<b>Flash point</b>	> 93°C(200°F)
<b>Ignition temperature</b>	> 540°C (1004°F)
<b>Method</b>	ASTM D 1929
<b>Water solubility</b>	insoluble

**10. Stability and reactivity**

**Reactivity**

Stable under normal conditions.

**Conditions to avoid**

Flame. Avoid prolonged heating at or above the recommended processing temperature.

**Incompatible Materials**

strong bases.

**Hazardous Combustion or Decomposition Products:**

Thermal decomposition products may include oxides of nitrogen and carbon.

**Possibility of hazardous reactions**

Incompatible with bases.

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**11. Toxicological information**

No data is available on the product itself

**12. Ecological information**

**Ecotoxicity:**

The effects of resin pellets on the wildlife that may ingest them is not well understood. In the case of seabirds, some marine biologists believe that the fowl may not be able to pass plastic pellets through their digestive tracts. Thus, large quantities of ingested pellets may cause intestinal blockage, false feelings of satiation or reduction in absorption of nutrients, causing malnutrition and starvation. The goal of SPI's Operation Clean Sweep is zero loss of pellets into the environment.

**Environmental Fate/Information:**

This material is considered to be non-biodegradable.

**13. Disposal considerations**

**Disposal considerations**

Recycling is encouraged. Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

This product as shipped is not a RCRA hazardous waste under present EPA regulations

**14. Transport information**

**US Department of Transportation** Not regulated

**TDG** Not regulated

**Mexico Transport Information** Not regulated

**ICAO/IATA** Not restricted

**IMDG** Not regulated

**15. Regulatory information**

**U.S. FEDERAL REGULATIONS**

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## TSCA Inventory

This product complies with the U.S. Toxic Substances Control Act (TSCA).

## SARA 313 Chemicals

Contains no substances at or above the reporting threshold under Section 313.

## CANADIAN REGULATIONS

### WHMIS Classification:

Not a WHMIS controlled product.

### WHMIS Ingredient Disclosure List IDL:

Fiberglass (65997-17-3)

Carbon Black (1333-86-4)

## 16. Other information

NFPA: Health: 1

Flammability: 1

Instability: 0

HMIS: Health: 0

Flammability: 1

Physical Hazard: 0

### Prepared By

Product Stewardship Department

Ticona

Changes against the previous version are marked by \*\*\*

This product is not intended for use in medical or dental implants.

Refer to the appropriate Ticona bulletins for specific processing guidance and good manufacturing practices (purging, processing parameters, shutdown, etc.).

The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. Ticona makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

# Material Safety Data Sheet



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## Abbreviation and Acronym:

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

RID = Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG = International Maritime Code for Dangerous Goods

IATA = International Air Transport Association

ICAO = International Civil Aviation Organization

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

EINECS = European Inventory of Existing Commercial Chemical Substances

CAS = Chemical Abstracts Service (division of the American Chemical Society)

CLP = Classification, Labelling and Packaging