



# Ebonex Anode

## Safety Data Sheet

### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Vector Ebonex Anode  
APPLICATION: Titanium oxide anode for impressed current cathodic protection systems  
COMPANY: Vector Corrosion Technologies  
474B Dovercourt Drive, Winnipeg, Manitoba, Canada, R3Y 1G4  
TELEPHONE: +1-204-489-9611

### 2. HAZARD IDENTIFICATION

CLASSIFICATION: Not classified (acc. EC-regulations, CLP, GHS, etc.) Hazards not otherwise classified..  
LABEL ELEMENTS: **Hazard Pictograms:** N/A  
**Signal Word:** Warning  
**Hazard Statements:** None  
**Precautionary Statements:**  
P202 / Do not handle until all safety precautions have been read and understood.  
P280 / Use personal protective equipment as required.  
OTHER HAZARDS: None

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Chemical Name  | CAS #      | EC #      | Classification                        | Concentration % | Symbols |
|----------------|------------|-----------|---------------------------------------|-----------------|---------|
| Titanium Oxide | 13463-67-7 | 236-675-5 | Not classified as hazardous material. | 99%             | TiO2    |

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of New Chemical Substances) or are exempt.  
Refer to Section 8 for Occupational Exposure Limits

### 4. FIRST AID MEASURES

#### DESCRIPTION OF FIRST AID MEASURES:

**EYES:** Wash eyes with plenty of eyewash solution or running water, hold eyelids apart for no less than 15 minutes. Remove contact lens(es) if able to do so during rinsing. Do not rub eyes in order to avoid possible cornea damage as a result of mechanical stress. Seek medical attention if irritation persists or if concerned.

**SKIN:** Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Take off contaminated clothing. Seek medical advice if discomfort or irritation persists.

**INHALATION:** Move to fresh air. Seek medical attention if irritation persists or later develops or if discomfort, coughing or other symptoms persist.

**INGESTION:** Rinse out mouth with water. Do NOT induce vomiting. Obtain medical attention urgently.

#### MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

**SYMPTOMS:** See Section 11 for more detailed information on health effects and symptoms.  
**RISKS:** Health injuries may be delayed.  
Irritant effects

#### INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

**TREATMENT:** Treat symptomatically





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### 5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use dry chemical, CO<sub>2</sub>, water spray or alcohol resistant foam.  
 HAZARDOUS COMBUSTION PRODUCTS: Product is not combustible.  
 ADVICE FOR FIREFIGHTERS: None  
 FURTHER INFORMATION: None

### 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid dust formation. Wear personal protective equipment, and keep unprotected persons away.  
 ENVIRONMENTAL PRECAUTIONS: None  
 METHODS FOR CLEANING UP: Avoid the creation of dust in atmosphere. Gather into suitable container.

### 7. HANDLING AND STORAGE

HANDLING: Avoid creating dust when machining the products mechanically. Safeguard the products for mechanical impact (products could be cracked).  
 STORAGE: Safeguard the products from mechanical impact (products could be cracked). Store in dry place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### CONTROL PARAMETERS:

| Components     | CAS-No     | Value | Control Parameters | Basis |
|----------------|------------|-------|--------------------|-------|
| Titanium Oxide | 13463-67-7 | TWA   | None               | —     |

ENGINEERING CONTROL MEASURES: None.

PERSONAL PROTECTIVE EQUIPMENT: When machining the products mechanically with dust formation, use suitable filter masks (Filter type P2 acc. DIN 3181). Use cut-and-puncture resistant gloves when machining (if broken, brittle fractures may result in very sharp edges), suitable eye protection glasses also required. For the product itself, no special control measures required.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Solid Tubular shape  
 COLOUR: Dark grey  
 ODOUR: Odourless  
 ODOUR THRESHOLD: Not determined  
 pH(working dilution): Not determined  
 BOILING POINT/RANGE (°C): Not determined  
 MELTING POINT/RANGE (°C): 1855°C  
 EVAPORATION RATE: Not determined  
 FLASH POINT (closed, °C): Not determined  
 AUTO-IGNITION TEMP (°C): Not determined  
 IGNITION TEMP (°C): Not determined  
 OXIDIZING PROPERTIES: Not applicable  
 VAPOUR PRESSURE: Not applicable





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|                                |                               |
|--------------------------------|-------------------------------|
| LOWER EXPLOSION LIMIT (Vol-%): | Not determined                |
| UPPER EXPLOSION LIMIT (Vol-%): | Not determined                |
| FLAMMABILITY (Solid/gas):      | Not determined                |
| RELATIVE DENSITY (AT 20°C):    | 3.50 - 3.80 g/cm <sup>3</sup> |
| WATER SOLUBILITY:              | Insoluble                     |
| VISCOSITY :                    | Not applicable                |

### 10. STABILITY AND REACTIVITY

|                                     |  |
|-------------------------------------|--|
| REACTIVITY:                         | None   |
| CHEMICAL STABILITY:                 | The product is chemically stable under intended use. |
| POSSIBILITY OF HAZARDOUS REACTIONS: | None   |
| CONDITIONS TO AVOID:                | None   |
| INCOMPATIBLE MATERIALS:             | None   |
| HAZARDOUS DECOMPOSITION PRODUCTS:   | None   |

### 11. TOXICOLOGICAL INFORMATION

|                                    |   |
|------------------------------------|---|
| SKIN CORROSION/IRRITATION:         | Not chemically corrosive, may cause mild mechanical irritation to skin. |
| EYE DAMAGE/IRRITATION:             | Mild mechanical irritation to eyes when dust created.                   |
| RESPIRATORY OR SKIN SENSITIZATION: | Will not occur.   |
| GERM CELL MUTAGENICITY:            | There is no evidence of any mutagenic effects.                          |
| CARCINOGENICITY:                   | There is no evidence of any carcinogenic effects.                       |
| REPRODUCTIVE TOXICITY:             | There is no evidence of any reproductive toxicity effects.              |
| INHALATION:                        | Mechanical irritating to respiratory system. Nuisance dust.             |
| REPEATED EXPOSURE:                 | No effect indicated.  |

### 12. ECOLOGICAL INFORMATION

|                              |  |
|------------------------------|--|
| ENVIRONMENTAL ASSESSMENT:    | Little detailed information is available on the ecological effects of this product, but its overall environmental impact is not regarded as significant. |
| TOXICITY:                    | No data available for the product.   |
| PERSISTENCE / DEGRADABILITY: | No data available for the product.   |
| BIOACCUMULATIVE POTENTIAL:   | No data available for the product.   |
| MOBILITY IN SOIL:            | No data available for the product.   |

### 13. DISPOSAL CONSIDERATIONS

|  |  |
|--|--|
| Disposal must be in accordance with local, regional, and national legislation. |  |
| UNUSED PRODUCT:  | Dispose of in an approved manner                                 |
| USED/CONTAMINATED PRODUCT:   | Dispose of in an approved manner                                 |
| PACKAGING:   | The method of disposal must be acceptable to the local authority |



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## 14. TRANSPORT INFORMATION

This product is NOT classified as dangerous for transport.

## 15. REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS  
SPECIFIC FOR THE SUBSTANCE OR MIXTURE: No data available for the product.

## 16. OTHER INFORMATION

May 1, 2020. All sections revised, new format.

This SDS has been prepared to meet U.S. Osha Hazard Communication Standard, 29 CFR 1910.1200 and Canada’s Workplace Hazardous Materials Information System (WHMIS) Requirements.

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from Vector Corrosion Technologies.

If this product has been purchased for supply to a third party for use at work, it is the purchaser’s duty to take all necessary steps to ensure any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

The information in the Safety Data Sheet was obtained from sources we believe are reliable. The information, however, is provided without any representation or warranty, expressed or implied regarding the accuracy or correctness.

The condition or methods of handling, storage, use and disposal of the product are beyond our control. We do not assume responsibility and expressly disclaim liability for loss, damage or exposure arising out of or in any way connected with the handling, storage, use or disposal of the product.

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