

# SAFETY DATA SHEET



## **RYNITE® 830ER BK503 PET polyester resin**

Version 4.0

Document no. 130000021850

Revision Date 2018/05/03

Issue Date 2023/07/12

This SDS adheres to the standards and regulatory requirements of China and may not meet the regulatory requirements in other countries.

### **Section 1 - Chemical and Enterprise Identification**

**Product name** : RYNITE® 830ER BK503 PET polyester resin

**Product name in English** : RYNITE® 830ER BK503 PET polyester resin

#### **Recommended use of the chemical and restriction on use**

Recommended use : Polymer

Restrictions on use : For manufacturing and research use only

#### **Manufacturer, importer, supplier**

Company : DuPont Trading (Shanghai) Co., Ltd.

Street address : 4560 Jinke Road, Zhangjiang, Pudong Shanghai, China

E-mail address : HazCom@celanese.com

**Emergency telephone number** : CHEMTREC Internat phone: +1-703-527 3887, +86 532 8388-9090 (China, 24h)

**Date of first preparation** : 2011/04/02

### **Section 2 - Hazard Identification**

#### **GHS Hazard Category**

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).  
Endpoints which are not classified, cannot be classified or are not applicable are not shown.

#### **Main Symptom After Contact**

No information available.

### **Section 3 - Ingredients/Composition Information**

**Chemical nature** : Mixture

#### **Components**

This product does not contain any components that require disclosure according to country regulations.

### **Section 4 - First-aid Measures**

**Inhalation** : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

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|                                                           |                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin contact</b>                                       | : The material is not likely to be hazardous by skin contact, but cleaning the skin after use is advisable. Cool skin rapidly with cold water after contact with molten material. Do not peel polymer from the skin. Obtain medical treatment for thermal burn. |
| <b>Eye contact</b>                                        | : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.                                                                                                                                                    |
| <b>Ingestion</b>                                          | : No specific intervention is indicated. Consult a physician if necessary.                                                                                                                                                                                      |
| <b>Most important symptoms/effects, acute and delayed</b> | : No information available.                                                                                                                                                                                                                                     |
| <b>Protection of first-aiders</b>                         | : No information available.                                                                                                                                                                                                                                     |
| <b>Notes to physician</b>                                 | : No information available.                                                                                                                                                                                                                                     |

### **Section 5 - Fire-fighting Measures**

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable extinguishing media</b>                  | : Water, Foam, Dry chemical, Carbon dioxide (CO2)                                                                                                                                                                                                                                                                                                                                            |
| <b>Specific hazards</b>                              | : Combustible . Large molten masses may ignite spontaneously in air. Water quenching is good practice. Minimize the generation and accumulation of dust. Failure or malfunction of temperature control systems on processing equipment, such as extruders, may create explosion hazards. Hazardous combustion products may include: (see also section 10)<br>Carbon monoxide, Carbon dioxide |
| <b>Special protective equipment for firefighters</b> | : Wear self-contained breathing apparatus and protective suit.                                                                                                                                                                                                                                                                                                                               |
| <b>Specific extinguishing methods</b>                | : No information available.                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Further information</b>                           | : Evacuate personnel and keep upwind of fire.                                                                                                                                                                                                                                                                                                                                                |

### **Section 6 - Leak Emergency Treatment**

|                                                                                   |                                                        |
|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| <b>Protective measures, devices and emergency treatment procedure for workers</b> | : Spilled material is a slipping hazard.               |
| <b>Environmental precautions</b>                                                  | : Do not discharge to streams, ponds, lakes or sewers. |

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**Methods and materials for containment and cleaning up** : Spills of fine material should be cleaned using gentle sweeping or vacuuming. Cleaning methods (e.g. compressed air) which can generate potentially combustible dust clouds should not be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Use only non-sparking tools.

**Prevention of secondary hazards** : No information available.

### **Section 7 - Operation Handling and Storage**

#### **Operation Handling**

**Technical measures/Precautions** : Open container only in well-ventilated area. Wash hands thoroughly after handling. Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated. Do not breathe dust. Minimize the generation and accumulation of dust. Pneumatic conveying and other mechanical handling operations can generate combustible dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

**Precautions for safe handling** : No information available.

#### **Storage**

**Suitable storage conditions** : Store in a cool, dry place. Keep container closed to prevent contamination. Keep in an area equipped with sprinklers.

### **Section 8 - Exposure Control and Personal Protection**

#### **Control parameters**

Applicable occupational exposure limits are listed below.

| Chemical name                            | Occupational Exposure Limits    | Regulation |
|------------------------------------------|---------------------------------|------------|
| Dust (inhalable and respirable fraction) |                                 |            |
| TWA                                      | 8 mg/m3 (Total dust.)           | GBZ 2.1    |
| TWA                                      | 3 mg/m3 (Respirable particles.) | US ACGIH   |
| TWA                                      | 10 mg/m3 (Inhalable particles.) | US ACGIH   |

**Engineering controls** : General mechanical ventilation is normally adequate but use local exhaust where necessary to maintain exposures below acceptable limits. Use local exhaust to completely remove vapors and fumes liberated during hot processing from the work area.

**Biological occupational exposure limits** : No information available.

**Personal protective equipment**

**RYNITE® 830ER BK503 PET polyester resin**

Version 4.0

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|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Respiratory protection | : A respiratory protection program that meets country requirements must be followed whenever workplace conditions warrant respirator use. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer. Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with dust/mist cartridge. |
| Hand protection        | : Wear leather or cotton gloves when grinding, sawing, routing, drilling or sanding., When handling hot material, use heat resistant gloves.                                                                                                                                                                                                                                                                                                                           |
| Eye protection         | : Wear safety glasses with side shields.<br>Wear tightly fitting chemical splash goggles and face shield when possibility exists for eye and face contact due to spattering or splashing of molten material.<br>A full-face mask respirator provides protection from eye irritation.                                                                                                                                                                                   |
| Skin protection        | : If there is a potential for contact with hot/molten material wear heat resistant clothing and footwear.                                                                                                                                                                                                                                                                                                                                                              |
| Hygiene measures       | : No information available.                                                                                                                                                                                                                                                                                                                                                                                                                                            |

**Section 9 - Physical and Chemical Properties****Appearance (Physical state, form, colour, etc.)**

|                |           |
|----------------|-----------|
| Physical state | : solid   |
| Form           | : pellets |
| Colour         | : black   |

**Odour** : like fruit**Odour Threshold** : 0.07 - 0.21 ppm  
acetaldehyde**pH** : Not applicable**Melting point/freezing point**

Melting point/range : &gt; 200 °C

**Boiling point, initial boiling point and boiling range**Boiling point/boiling  
range : Not applicable**Flash point** : Not applicable**Evaporation rate** : Not applicable**Flammability (solid, gas)** : May form combustible dust concentrations in air during processing, handling or other means.**Upper/lower flammability or explosive limits**

|                       |                  |
|-----------------------|------------------|
| Upper explosion limit | : Not applicable |
| Lower explosion limit | : Not applicable |

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|                                               |                                                                                                                                                                                                                                                 |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Vapour pressure</b>                        | : Not applicable                                                                                                                                                                                                                                |
| <b>Vapour density</b>                         | : Not applicable                                                                                                                                                                                                                                |
| <b>Density</b>                                |                                                                                                                                                                                                                                                 |
| Specific gravity<br>(Relative density)        | : > 1                                                                                                                                                                                                                                           |
| <b>Solubility(ies)</b>                        |                                                                                                                                                                                                                                                 |
| Water solubility                              | : insoluble                                                                                                                                                                                                                                     |
| <b>Partition coefficient: n-octanol/water</b> | : Not applicable                                                                                                                                                                                                                                |
| <b>Auto-ignition temperature</b>              |                                                                                                                                                                                                                                                 |
| Auto-ignition temperature                     | : Not applicable                                                                                                                                                                                                                                |
| <b>Decomposition temperature</b>              | : Thermal decomposition of the resin accelerates above temperature listed. Decomposition can occur below the recommended processing temperature limit. Decomposition is a function of both processing temperature and time at that temperature. |
| <b>Viscosity</b>                              |                                                                                                                                                                                                                                                 |
| Viscosity, kinematic                          | : Not applicable                                                                                                                                                                                                                                |
| Viscosity, dynamic                            | : Not applicable                                                                                                                                                                                                                                |
| <b>Molecular weight</b>                       | : No information available.                                                                                                                                                                                                                     |

**Section 10 - Stability and Reactivity**

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | : Stable at normal ambient temperature and pressure.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Chemical stability</b>                 | : Stable at normal ambient temperature and pressure.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Possibility of hazardous reactions</b> | : Polymerization will not occur.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Conditions to avoid</b>                | : Abnormally long processing time or high temperatures can produce irritating and toxic fumes.<br>Decomposes on heating.<br>At temperatures above the "conditions to avoid" temperature, thermal decomposition of the resin accelerates.<br>Decomposition can occur below the recommended processing temperature limit.<br>Decomposition is a function of both processing temperature and time at that temperature. |
| <b>Materials to avoid</b>                 | : other polymers such as polycarbonate and polyacetal, at melt temperatures<br>Strong acids, Strong bases, Strong oxidizing agents                                                                                                                                                                                                                                                                                  |

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**Hazardous decomposition products** : Hazardous thermal decomposition products may include:  
Aldehydes Carbon monoxide, Carbon dioxide

### **Section 11 - Toxicological Information**

#### **Acute toxicity**

No information available.

#### **Skin corrosion/irritation**

No information available.

#### **Serious eye damage/eye irritation**

No information available.

#### **Respiratory or skin sensitisation**

No information available.

#### **Germ cell mutagenicity**

No information available.

#### **Carcinogenicity**

No information available.

#### **Reproductive toxicity**

No information available.

#### **Specific Target Organ Toxicity**

No information available.

#### **Aspiration hazard**

No information available.

#### **Other**

RYNITE® 830ER BK503 PET polyester resin : No data is available on the product itself.  
For additional toxicity data, write to the company address or call the non-emergency number shown in Section 1.

### **Section 12 - Ecological Information**

#### **Ecotoxicity effects**

No information available.

#### **Persistence and degradability**

No information available.

#### **Bioaccumulation**

No information available.

#### **Mobility in soil**

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No information available.

### **Other adverse effects**

RYNITE® 830ER BK503 PET polyester resin : No data is available on the product itself. Toxicity is expected to be low based on insolubility in water.

## **Section 13 - Waste Disposal**

**Waste disposal methods** : Preferred options for disposal are recycling or incineration with energy recovery. The high fuel value of this product makes incineration very desirable for material that cannot be recycled. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

**Contaminated packaging** : Dispose of in accordance with local regulations.

## **Section 14 - Transport Information**

Not classified as dangerous in the meaning of transport regulations.

### **China Dangerous Goods Regulation**

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Packing group : Not applicable

### **IMDG**

UN number : Not applicable  
UN proper shipping name : Not applicable  
Transport hazard class : Not applicable  
Packing group : Not applicable  
Marine pollutant : Not applicable

### **IATA**

UN number : Not applicable  
UN proper shipping name : Not applicable  
Transport hazard class : Not applicable  
Packing group : Not applicable

Matters needing attention for transportation : Not applicable

## **Section 15 - Regulatory Information**

not regulated

## **Section 16 - Other Information**

### **References**

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| Version                   | : | 4.0        |

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Read the product information datasheet for this product or the molding guide for this resin family.

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

Do not use DuPont materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also request a copy of the DuPont POLICY Regarding Medical Applications and DuPont CAUTION Regarding Medical Applications.

Significant change from previous version is denoted with a double bar.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.