

### Section 1: Identification

#### 1.1. Product identifier

Product form : Mixture  
Product Identifier(s) : Ricon® 153DA

#### 1.2. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Elastomers

#### 1.3. Details of the supplier of the safety data sheet

TotalEnergies Petrochemicals & Refining USA, Inc.  
Cray Valley Division  
PO Box 674411  
Houston, TX 77267-4411

For non-emergency product information:  
Phone: 713-483-5000 or 1-877-871-2729  
Email: product.stewardship@totalenergies.com

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (Toll Free USA & Canada) / 703-527-3887 (Multiple languages)  
TotalEnergies Petrochemicals & Refining USA, Inc.: 1-800-322-3462 (Language: English only)

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

Combustible Dust  
Self-heating substances and mixtures Category 1

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS-US) :

**Self-heating; may catch fire**  
**May form combustible dust concentrations in air**

Precautionary statements (GHS-US) :

Keep cool. Protect from sunlight.  
Wear eye protection, face protection, protective clothing, protective gloves.  
Maintain air gap between stacks/pallets.  
Store bulk masses greater than 400 kg / 881 lbs. at temperatures not exceeding 32 °C / 90 °F.  
Store away from other materials.

#### 2.3. Hazards not otherwise classified

No additional information available

#### 2.4. Unknown acute toxicity (GHS-US)

Not applicable

#### 2.5. Additional information

Based on conditions common to industrial workplace use of this product

Contact with skin or eyes with hot material may cause serious thermal burns.  
Vapors formed when material is processed at high temperatures may be irritating to the eyes

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and upper respiratory tract.

Dust or particulates may cause mild respiratory tract and eye irritation

Based on professional judgment, inconclusive testing, or sensitive individuals : Repeated or prolonged contact may cause slight irritation to the skin

### Section 3: Composition/Information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Where concentration of substances listed for this product are given in ranges, the exact percentage is being withheld as a trade secret.

| Name                       | CAS-No.   | %<br>(Weight Percent) |
|----------------------------|-----------|-----------------------|
| 1,3-Butadiene, homopolymer | 9003-17-2 | 63 - 72               |
| Silicic acid, calcium salt | 1344-95-2 | 28 – 37               |

### Section 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- First-aid measures after skin contact : Gently wash with plenty of soap and water. If irritation persists, consult a doctor. Heated Material: For serious burns from heated material, get medical attention. In case of skin contact, immediately immerse in or flush with clean, cold water. Do not remove clothing adhering to the skin.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking, tears or redness persist. Heated Material: For serious burns from heated material, get medical attention. In case of contact with the eyes : Rinse immediately with plenty of water for 15 minutes.
- First-aid measures after ingestion : Rinse mouth out with water. If necessary seek medical advice.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : Dust from this product may cause respiratory irritation.
- Symptoms/effects after skin contact : Product may cause mild skin irritation.
- Symptoms/effects after eye contact : Contact with hot material - prevent serious burns. Dust from this product may cause minor eye irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### Section 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray or fog. Carbon dioxide. Foam. Dry chemical. Dry powder. Sand.
- Unsuitable extinguishing media : Use of heavy stream of water may spread fire.

#### 5.2. Special hazards arising from the chemical

- Fire hazard : Self-heating; may catch fire. When mixed with air and exposed to an ignition source, dust may burn in the open air.
- Explosion hazard : Potential dust explosion hazard. When dust becomes airborne and is exposed to an ignition source, sufficient combustible/flammable dust may exist to burn in the open or explode if confined.
- Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>). Toxic fumes.

#### 5.3. Advice for firefighters

- Firefighting instructions : Fight fire from safe distance and protected location. Use water spray or fog for cooling exposed containers. Avoid raising powdered materials into airborne dust, creating an explosion hazard. Apply aqueous extinguishing media carefully to prevent frothing/steam explosion. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

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### Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- Emergency procedures for non-emergency personnel : Clean up immediately by sweeping or vacuum. Ensure adequate ventilation. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures for emergency responders : No additional requirement.

#### 6.2. Methods and material for containment and cleaning up

- For containment : Sweep up or vacuum up the product.
- Methods for cleaning up : Dispose of materials or solid residues at an authorized site.

#### 6.3. Reference to other sections

See section 8. Exposure controls/personal protection.

### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid raising powdered material due to explosion hazard. Prevent the build-up of electrostatic charge. Use only non-sparking tools. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. The plastic packaging film used to secure bags of material on pallets can also develop static electricity -- remove packaging film in an area free from ignitable vapors/dust. Refer to the latest edition of the National Fire Protection Association (NFPA) 654 publication, "Standard for the Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries", and "Combustible Dust in Industry: Preventing and Mitigating the Effects of Fire and Explosions" (OSHA SHIB, July 31, 2005, updated Nov. 12, 2014, <https://www.osha.gov/dts/shib/shib073105.html>) for a complete discussion on dust explosion prevention and control measures. Material creates a slipping hazard on hard surfaces. Clean up spills from walking surfaces immediately.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Electrical equipment should conform to the National Electric Code.
- Storage conditions : Keep container tightly closed. Store in a dry place. Keep cool. Protect from sunlight. Store away from other materials. Maintain air gap between stacks or pallets. Keep away from combustible materials. Keep away from sources of ignition.
- Incompatible materials : Strong acids. Bases. Strong oxidizing agents. Strong reducing agents.
- Storage temperature : 10 – 32 °C

### Section 8: Exposure controls/personal protection

#### 8.1. Occupational Exposure Limits

The following constituents are the only constituents of the product which have a PEL, TLV, or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

| Ricon® 153DA                           |                    |  |
|--|--------------------|--|
| USA ACGIH                              | ACGIH OEL TWA      | 10 mg/m <sup>3</sup> (inhalable dust)<br>3 mg/m <sup>3</sup> (respirable dust) |
| USA ACGIH                              | Remark (ACGIH)     | Particulates, not otherwise classified   |
| USA OSHA                               | OSHA PEL (TWA) [1] | 15 mg/m <sup>3</sup> (total dust)<br>5 mg/m <sup>3</sup> (respirable dust)     |
| USA OSHA                               | Remark (OSHA)      | Particulates, not otherwise classified   |
| Silicic acid, calcium salt (1344-95-2) |                    |  |
| USA OSHA                               | OSHA PEL (TWA) [1] | 5 mg/m <sup>3</sup>  |

#### 8.2. Exposure controls

- Appropriate engineering controls : Provide readily accessible eye wash stations and safety showers. Ensure good ventilation of the work station.
- Hand protection : Impermeable protective gloves. Do not use natural rubber gloves. Product used with solvents : wear thick (> 0.5 mm) nitrile gloves. Replace gloves immediately when torn or any change in appearance (dimension, color, flexibility, etc.) is noticed.
- Eye protection : Safety glasses.
- Skin and body protection : Wear fire/flammable resistant/retardant clothing. Wear suitable protective clothing.
- Respiratory protection : In case of inadequate ventilation wear respiratory protection.

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### Section 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|   |                                     |
|---|-------------------------------------|
| Physical state                                  | : Solid                             |
| Appearance                                      | : Powder.                           |
| Color   | : White to off-white. Light gray.   |
| Odor  | : No data available                 |
| Odor threshold                                  | : No data available                 |
| pH  | : Not applicable                    |
| Relative evaporation rate (butyl acetate=1)     | : No data available                 |
| Melting point                                   | : No data available                 |
| Freezing point                                  | : Not applicable                    |
| Boiling point                                   | : Not applicable                    |
| Flash point                                     | : > 400 °C Cleveland open cup (COC) |
| Auto-ignition temperature                       | : Not applicable                    |
| Decomposition temperature                       | : > 350 °C                          |
| Flammability (solid, gas)                       | : No data available                 |
| Vapor pressure                                  | : Not applicable                    |
| Relative vapor density at 20 °C                 | : Not applicable                    |
| Relative density                                | : 1.28                              |
| Solubility                                      | : Water: practically insoluble      |
| Partition coefficient n-octanol/water (Log Kow) | : No data available                 |
| Viscosity, kinematic                            | : Not applicable                    |
| Viscosity, dynamic                              | : Not applicable                    |
| Explosion limits                                | : No data available                 |

#### 9.2. Other information

Explosive properties : Dust may form explosive mixture in air.

### Section 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Self-heating; may catch fire.

#### 10.3. Possibility of hazardous reactions

Dust may form explosive mixture in air.

#### 10.4. Conditions to avoid

Avoid the build-up of electrostatic charge. High temperature. Avoid dust formation. Direct sunlight. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

Strong acids. Bases. Strong oxidizing agents. Strong reducing agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11: Toxicological information

#### 11.1. Information on toxicological effects

|                             |  |
|-----------------------------|--|
| Likely routes of exposure   | : Inhalation. Ingestion. Skin and eye contact. |
| Acute toxicity (oral)       | : Not classified                               |
| Acute toxicity (dermal)     | : Not classified                               |
| Acute toxicity (inhalation) | : Not classified                               |

#### 1,3-Butadiene, homopolymer (9003-17-2)

|               |   |
|---------------|---|
| LD50 oral rat | > 34600 mg/kg (Results obtained on a similar product) |
|---------------|---|

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|   |            |
|---|------------|
| <b>Silicic acid, calcium salt (1344-95-2)</b> |            |
| LD50 oral rat                                 | 3400 mg/kg |

|   |  |
|---|--|
| Skin corrosion/irritation                           | : Not classified   |
| Serious eye damage/irritation                       | : Not classified   |
| Respiratory or skin sensitization                   | : Not classified   |
| Germ cell mutagenicity                              | : Not classified   |
| Carcinogenicity                                     | : Not classified   |
| Reproductive toxicity                               | : Not classified   |
| STOT-single exposure                                | : Not classified   |
| STOT-repeated exposure                              | : Not classified   |
| Aspiration hazard                                   | : Not classified<br>Not applicable                         |
| Potential Adverse human health effects and symptoms | : Dust from this product may cause respiratory irritation. |

### Section 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

No additional information available

### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

|  |   |
|--|---|
| Waste treatment methods                    | : Transfer to a safe disposal area in accordance with federal, state, and local regulations.                        |
| Product/Packaging disposal recommendations | : Dispose of contents and container in accordance with all local, regional, national and international regulations. |

### Section 14: Transport information

#### US Transport (DOT) for Bulk Shipments (Non-Bulk Shipments May Differ)

|                                      |   |
|--------------------------------------|---|
| Transport document description (DOT) | : UN3088, Self-heating solid, organic, n.o.s. (polybutadiene resin), 4.2 , PGII |
| UN or NA Number                      | : UN3088  |
| Proper Shipping Name                 | : Self-heating solid, organic, n.o.s.   |
| Primary Hazard Class                 | : 4.2 - Spontaneously combustible material                                      |
| Packing Group                        | : PGII  |
| Hazard labels                        | :   |



Emergency Response Guide (ERG) Number : 135

#### Transport by sea (IMDG)

Transport document description (IMDG) : UN 3088 SELF-HEATING SOLID, ORGANIC, N.O.S. (polybutadiene resin), 4.2, II

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UN Number : UN3088  
Proper Shipping Name : SELF-HEATING SOLID, ORGANIC, N.O.S.  
Primary Hazard Class : 4.2 - Substances liable to spontaneous combustion  
Packing Group : PGII  
Hazard labels (IMDG) :



EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE  
EmS-No. (Spillage) : S-J - SPILLAGE SCHEDULE Juliet - WETTED EXPLOSIVES AND CERTAIN SELF-HEATING SUBSTANCES  
Stowage category (IMDG) : C

### Air transport (IATA)

Transport document description (IATA) : UN 3088 Self-heating solid, organic, n.o.s. (polybutadiene resin), 4.2, II  
UN Number : UN3088  
Proper Shipping Name : Self-heating solid, organic, n.o.s.  
Primary Hazard Class : 4.2 - Substances Liable to Spontaneous Combustion  
Packing Group : PGII  
Hazard labels (IATA) :



## Section 15: Regulatory information

### 15.1. US Federal regulations

#### EPA TSCA Status

All components of this product are listed or exempt from listing on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) Active inventory. This product has no special requirements under TSCA, such as significant new use rules (SNUR), consent orders, test rules, or sections 4, 5, 6, 8(a), 8(d), 12(b) requirements.

#### SARA Section 313 Supplier Notification

This product contains no toxic chemicals in excess of the applicable de minimis concentration that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SARA Section 311/312 Hazard Classes : Physical hazard - Self-heating  
Physical hazard - Combustible dust

Export Control Classification Number (ECCN): EAR99 (No License Required)

### 15.2. International regulations

#### CANADA

No additional information available

#### National inventories

|  |                                       |
|--|---------------------------------------|
| AICS (Australian Inventory of Chemical Substances)                     | All components are listed or exempted |
| DSL (Canadian Domestic Substances List)                                | All components are listed or exempted |
| EINECS (European Inventory of Existing Commercial Chemical Substances) | Some components are not listed        |
| ENCS (Japanese Existing & New Chemical Substances inventory)           | All components are listed or exempted |
| ECL (Korean Existing Chemical List)                                    | All components are listed or exempted |
| NZIoC (New Zealand Inventory of Chemicals)                             | All components are listed or exempted |
| PICCS (Philippines Inventory of Chemicals and Chemical Substances)     | All components are listed or exempted |

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### 15.3. US State regulations

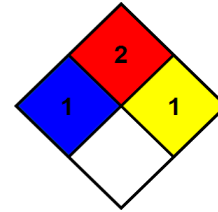
This product may contain California Proposition 65 substances at concentration levels below those required to be classified as hazardous by OSHA's Hazard Communication Standard (29 CFR 1910.1200). Contact TotalEnergies Petrochemicals & Refining USA, Inc. if you need specific information regarding status of this product with regard to California Proposition 65.

### Section 16: Other information

Other information : Unless agreed to in a separate written agreement with the Customer, TotalEnergies Petrochemicals & Refining USA, Inc. makes no representations and disclaims all warranties, express or implied, with respect to biocompatibility and/or the suitability of this product for medical device applications including : (i) implantable devices intended for human or animal body, (ii) devices intended to be used in contact with internal body fluids, and (iii) devices intended to be used in contact with internal body tissues. If the Customer intends to use this product for any such application, it must first contact TotalEnergies Petrochemicals & Refining USA, Inc. and establish agreed terms and conditions for such use.

### NFPA (National Fire Protection Association)

NFPA health hazard : 1  
NFPA fire hazard : 2  
NFPA reactivity : 1



### Hazard System Rating

Health : 1  
Flammability : 2  
Physical Hazard : 1  
Personal protection : See section 8 of SDS

US OSHA LABEL as specified under 29 CFR §1910.1200 (f). The label shown may include supplemental information in addition to required elements.

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TotalEnergies Petrochemicals & Refining USA, Inc., Cray Valley Division  
PO Box 674411  
Houston, TX 77267-4411 USA  
Tel. 713-483-5000 or 1-877-871-2729



### Danger

**Self-heating; may catch fire**  
**May form combustible dust concentrations in air**

Keep cool. Protect from sunlight.  
Wear eye protection, face protection, protective clothing, protective gloves.  
Maintain air gap between stacks/pallets.  
Store bulk masses greater than 400 kg / 881 lbs. at temperatures not exceeding 32 °C / 90 °F.  
Store away from other materials.

US SDS Version: 1.7

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SDS ID: RICON\_153DA  
SDS REFERENCE NUMBER: 5022T

SDS Template - TotalEnergies SDS US TEPRI Version 20.01

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*The information contained in this Safety Data Sheet (SDS) is believed by TotalEnergies Petrochemicals & Refining USA, Inc. (TEPRI) to be accurate on the date issued. However, materials may present unknown hazards and should be used with caution. Final determination of suitability and use of any material is the sole responsibility of the user. Neither TEPRI nor any of its subsidiaries or affiliated companies assumes any liability whatsoever for the accuracy or completeness of the information contained herein or reliance thereto. If the material is repackaged, the user is responsible and must ensure that proper health, safety and other necessary information is included with the material and/or on the container. NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING THE MATERIALS OR THE INFORMATION CONTAINED IN THIS SDS. ALTERATION OF THIS DOCUMENT IS STRICTLY PROHIBITED.*