

Ricon® 154DA Safety Data Sheet

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Section 1: Identification

1.1. Product identifier

Product form : Mixture

Product Identifier(s) : Ricon® 154DA

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

Total 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@total.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (Toll Free USA & Canada) / 703-527-3887 (Multiple languages)

Total Petrochemicals & Refining USA, Inc.: 1-800-322-3462 (Language: English only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

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) : May form combustible dust concentrations in air

Self-heating: may catch fire

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 $^{\circ}\text{C}$ / 90 $^{\circ}\text{F}.$

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 to skin or eyes. Vapors formed when material is processed at high temperatures may be irritating to the eyes 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.

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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 | % |
|--|-----------|---------|
| 1,3-Butadiene, homopolymer | 9003-17-2 | 63 - 72 |
| (Main constituent) | | |
| Silicic acid, calcium salt (Constituent) | 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

: 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 attempt to remove adhered material from

skin

First-aid measures after eye contact

: Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking, tears

or redness persist.

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/injuries

: Not expected to present a significant hazard under anticipated conditions of normal use.

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, CO2). Toxic fumes.

5.3. Advice for firefighters

Firefighting instructions

: 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. Fight fire from safe distance and protected location.

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Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Emergency procedures for non-emergency personnel

: Remove ignition sources. 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.

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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", for 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 and pallets. Keep away from combustible

materials.

Incompatible products Combustible materials.

Incompatible materials acids. Bases. Strong oxidizing agents. Strong reducing agents.

Storage temperature : 10 - 32 °C

Section 8: Exposure controls/personal protection

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® 154DA | | |
|-----------------------|------------------------|---|
| USA ACGIH | ACGIH TWA (mg/m³) | 10 mg/m³ (inhalable dust) 3 mg/m³ (respirable dust) |
| USA ACGIH | Remark (ACGIH) | Particulates, not otherwise classified |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 15 mg/m³ (total dust) 5 mg/m³ (respirable dust) |
| USA OSHA | Remark (OSHA) | Particulates, not otherwise classified |
| Silicic acid, calcium | salt (1344-95-2) | |
| USA ACGIH | ACGIH TWA (mg/m³) | 10 mg/m³ (synthetic nonfibrous) |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 5 mg/m ³ |

8.2. **Exposure controls**

Appropriate engineering controls : Provide readily accessible eye wash stations and safety showers. Ensure good ventilation of

Protective gloves. Do not use natural rubber gloves. Product used with solvents : wear thick (> Hand protection

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.

Wear fire/flame resistant/retardant clothing. Wear suitable protective clothing. Skin and body protection

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Appearance : Powder. Color : Amber.

Odor : No data available Odor threshold No data available Hq : Not applicable Relative evaporation rate (butyl acetate=1) : No data available

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Melting point: No data availableFreezing point: No data availableBoiling point: No data available

Flash point : > 121 °C Cleveland open cup (COC)

Auto-ignition temperature : No data available

Decomposition temperature : > 246 °C

Flammability (solid, gas) : No data available
Vapor pressure : No data available
Relative vapor density at 20 °C : No data available

Relative density : 1.28

Solubility : Water: practically insoluble

Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosion limits : No data available

9.2. Other information

No additional information available

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

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid the build-up of electrostatic charge. High temperature. Avoid dust formation. Direct sunlight.

10.5. Incompatible materials

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 : Not classified

Based on available data, the classification criteria are not met

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

| 1,3-Butadiene, homopolymer (9003-17-2) | | | |
|--|--|-----|--|
| LD50 oral rat | > 34600 mg/kg (Results obtained on a similar product) | | |
| Skin corrosion/irritation | : Not classified | | |
| | Based on available data, the classification criteria are not met | | |
| Serious eye damage/irritation | : Not classified | | |
| | Based on available data, the classification criteria are not met | | |
| Respiratory or skin sensitization | : Not classified | | |
| | Based on available data, the classification criteria are not met | | |
| Germ cell mutagenicity | : Not classified | | |
| | Lack of data | | |
| Carcinogenicity | : Not classified | | |
| | Lack of data | | |
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Reproductive toxicity : Not classified

Lack of data

Specific target organ toxicity (single exposure) : Not classified

Lack of data

Specific target organ toxicity (repeated

exposure)

: Not classified Lack of data

Aspiration hazard : Not classified

Not applicable

Potential Adverse human health effects and

symptoms

: Product may cause mild skin irritation. Dust from this product may cause eye irritation. 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.

Waste 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 : 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.

(polybutadiene resin)

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 : UN3088, SELF-HEATING SOLID, ORGANIC, N.O.S. (POLYBUTADIENE RESIN), 4.2, PGII

UN Number : UN3088

Proper Shipping Name : SELF-HEATING SOLID, ORGANIC, N.O.S. (polybutadiene resin)

Primary Hazard Class : 4.2 - Substances liable to spontaneous combustion

Packing Group : PGII

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Hazard labels (IMDG)



Air transport (IATA)

Transport document description : UN3088, Self-heating solid, organic, n.o.s. (polybutadiene resin), 4.2, PGII

UN Number : UN3088

Proper Shipping Name : Self-heating solid, organic, n.o.s. (polybutadiene resin)
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 excluded from listing on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

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 Fire hazard

Reactive hazard

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 Sustances List)

All components are listed or exempted ECL (Korean Existing Chemical List)

ENCS (Japanese Existing & New Chemical Substances inventory)

All components are listed or exempted All components are listed or exempted EINECS (European Inventory of Existing Commercial Chemical Substances)

PICCS (Philippines Inventory of Chemicals and Chemical Substances)

All components are listed or exempted All components are listed or exempted

NZIoC (New Zealand Inventory of Chemicals)

15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity, not limited to any that may be listed below.

All components are listed or exempted

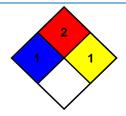
Section 16: Other information

NFPA (National Fire Protection Association)

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



HMIS III 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)

Ricon® 154DA

Total 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

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

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.

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MSDS ID: RICON_154DA SDS REFERENCE NUMBER: 5023T

SDS Template - TOTAL SDS US (GHS HazCom 2012) TPRI Version 5.00

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