

Safety Data Sheet

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

1.1.	Product identifier	
Produc	et form	: Mixture
Produc	t Identifier(s)	: Ricobond® 1756HS
1.2.	Recommended use of the che	emical and restrictions on use
Use of	the substance/mixture	: Elastomers
1.3.	Details of the supplier of the	safety data sheet
PO Bo: Housto For noi Phone:	alley Division x 674411 n,TX 77267-4411 n-emergency product information: : 713-483-5000 or 1-877-871-2729 product.stewardship@totalenergie	s.com
1.4.	Emergency telephone numbe	r
Emerge	ency 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
Secti	on 2: Hazards identificatio	on

Self-heating substances and mixtures Category 1 Skin sensitization, Category 1 Combustible Dust

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 May cause an allergic skin reaction
Precautionary statements (GHS-US)	 Keep cool. Protect from sunlight. Avoid breathing dust. Contaminated work clothing must not be allowed out of the workplace. Wear eye protection, face protection, protective clothing, protective gloves. If on skin: Wash with plenty of water. Specific treatment (see Section 4.1 of SDS or information on this label). If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. 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. Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3. Hazards not otherwise classified

No additional information available

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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 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

The concentrations of 1,3-butadiene, homopolymer, maleated and amorphous silica in this product are given in ranges because the exact percentages are being withheld as trade secrets. The concentration of maleic anhydride in this product is displayed as a range due to batch-to-batch variability.

Name	CAS-No.	%
		(Weight Percent)
1,3-Butadiene, homopolymer, maleated (Component)	179005-14-2	65 - 70
Amorphous silica (Component)	7631-86-9	30 – 35
Maleic anhydride (Impurity)	108-31-6	0.0005 - 0.5

Section 4: First aid measures

4.1. Description of first aid measures

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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 skin irritation or rash occurs: Get medical advice/attention. 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	l effects, both acute and delayed
Symptoms/effects after inhalation	: Dust from this product may cause respiratory irritation.
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Contact with hot material - prevent serious burns. May cause slight irritation to the skin.
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.

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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. 1,3-butadiene. Maleic anhydride. Hydrocarbons.
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.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Complete protective clothing. Self-contained breathing apparatus.
Section 6: Accidental release meas	ures
6.1. Personal precautions, protective ed	quipment 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 containm	ent 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 prote	ection.
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/3105.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

: 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

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	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. Keep away from sources of ignition.
	Incompatible materials	: Strong acids. 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.

Ricobond® 1756HS		
USA ACGIH	ACGIH OEL TWA	10 mg/m ³ (inhalable dust)
		3 mg/m ³ (respirable dust)
USA ACGIH	Remark (ACGIH)	Particulates, not otherwise classified
USA OSHA	OSHA PEL (TWA) [1]	15 mg/m ³ (total dust)
	. , , , , , , , , , , , , , , , , , , ,	5 mg/m ³ (respirable dust)

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USA OSHA	Remark (OSHA)	Particulates, not otherwise classified
Amorphous silica (7631-86-9)		
USA ÓSHA	OSHA PEL (TWA) [1]	0.8 mg/m ³ This exposure limit is calculated from the equation, 80/(%SiO2), using a value of 100% SiO2. Lower values of % SiO2 will give higher exposure limits.
USA OSHA	Remark (OSHA)	See 21 CFR 1910.1000 Table Z-1-A
IDLH	IDLH	3000 mg/m ³

USA ACGIH	ACGIH OEL TWA	0.01 mg/m ³
USA ACGIH	Remark (ACGIH)	TLV® Basis: Resp sens. Notations: DSEN; RSEN; A4 (Not classifiable as a Human Carcinogen)
USA OSHA	OSHA PEL (TWA) [1]	1 mg/m ³
USA OSHA	OSHA PEL (TWA) [2]	0.25 ppm
IDLH	IDLH	10 mg/m ³

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/flame resistant/retardant clothing. Wear suitable protective clothing.
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	: Light gray.		
Odor	: Hydrocarbon. Mild.		
Odor threshold	: No data available		
рН	: 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	: > 121 °C Cleveland open cup (COC)		
Auto-ignition temperature	: Not applicable		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: No data available		
Vapor pressure	: Not applicable		
Relative vapor density at 20 °C	: Not applicable		
Relative density	: 1.3		
Solubility	: Water: practically insoluble		
Partition coefficient n-octanol/water (Log Kow)	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: Not applicable		
Explosion limits	: No data available		
9.2. Other information			
Explosive properties	: Dust may form explosive mixture in air.		
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Section 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known	under normal conditions of use.			
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10.2. Chemical stability

Self-heating; may catch fire.

10.3. Possibility of hazardous reactions

May polymerize on exposure to temperature rise. Once initiated, the reaction generates enough heat to continue spontaneously. 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. 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	

riduce toxicity (oral)	
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

1,3-Butadiene, homopolymer, maleated (17			
LD50 oral rat	> 2000 mg/kg		
Amorphous silica (7631-86-9)			
LD50 oral rat	> 5000 mg/kg		
LD50 dermal rabbit	> 2000 mg/kg		
LC50 inhalation rat	> 2.2 mg/l (Exposure time: 1 h)		
Maleic anhydride (108-31-6)			
LD50 oral rat	1090 mg/kg body weight		
LD50 dermal rabbit	2620 mg/kg		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Not classified		
Respiratory or skin sensitization	: Not classified. May cause an allergic skin reaction.		
	This product may contain maleic anhydride (MA) at > 0.1% (1000 ppm). A sample of this or a similar product containing > 0.1% MA was tested in vitro by DPRA and h-CLAT methods, and the weight of evidence resulted in a positive classification for skin sensitization. This product is not classified for respiratory sensitization because relevant exposure is not expected due to its physical state.		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Amorphous silica (7631-86-9)			
IARC group	3 - Not classifiable		
National Toxicology Program (NTP) Status	Not listed		
Reproductive toxicity	: Not classified		
STOT-single exposure	: Not classified		
STOT-repeated exposure	: Not classified		
Aspiration hazard	: Not classified Not applicable		
Potential Adverse human health effects and symptoms	: Dust from this product may cause respiratory irritation.		

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Section 12: Ecological information

12.1. Toxicity

Amorphous silica (7631-86-9)	
LC50 - Fish [1]	5000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 - Crustacea [1]	7600 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)
EC50 - Other aquatic organisms [1]	440 mg/l (Exposure time: 72 h - Species: Pseudokirchneriella subcapitata)
Maleic anhydride (108-31-6)	
LC50 - Fish [1]	75 mg/l/96h (Lepomis macrochirus)
EC50 - Crustacea [1]	42.81 mg/l 48h - Daphnia magna (OECD 202 method) (Read-across (Analogy))
ErC50 algae	74.35 mg/l (72 Hours) (Pseudokirchneriella subcapitata) (OECD 201 method) (Read-across
	(Analogy))

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Amorphous silica (7631-86-9)		
BCF - Fish [1]	No bioaccumulation expected	
1,3-Butadiene, homopolymer, maleated (179005-14-2)		
Partition coefficient n-octanol/water (Log Pow)	3.9	

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 sa	fe disposal area in accordance w	vith federal, state, and local regul	ations.
Product/Packaging disposal recommendations	: Dispose of con international re		e with all local, regional, national	and
Section 14: Transport information				
US Transport (DOT) for Bulk Shipments (Nor	n-Bulk Shipments	lay Differ)		
Transport document description (DOT)	: UN3088, Self-h	eating solid, organic, n.o.s. (polyl	butadiene resin), 4.2 , PGII	
UN or NA Number	: UN3088			
Proper Shipping Name	: Self-heating so	id, organic, n.o.s.		
Primary Hazard Class	: 4.2 - Spontane	usly combustible material		
Packing Group	: PGII			
Hazard labels	COMBUSTIBLE 4			
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	l), 4.2, II
UN Number	: UN3088			
Proper Shipping Name	: SELF-HEATING	SOLID, ORGANIC, N.O.S.		
Primary Hazard Class	: 4.2 - Substance	s liable to spontaneous combust	ion	
Packing Group	: PGII			
Hazard labels (IMDG)				
EmS-No. (Fire)	: F-A - FIRE SCH	IEDULE Alfa - GENERAL FIRE S	SCHEDULE	
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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 - Combustible dust Physical hazard - Self-heating Health hazard - Respiratory or skin sensitization
Export Control Classification Number (ECCN):	EAR99 (No License Required)
15.2. International regulations	
CANADA	
No additional information available	
National inventories	

DSL (Canadian Domestic Sustances List) IECSC (China Inventory of Existing Chemical Substances) ENCS (Japanese Existing & New Chemical Substances inventory) All components are listed or exempted All components are listed or exempted All components are listed or exempted

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.

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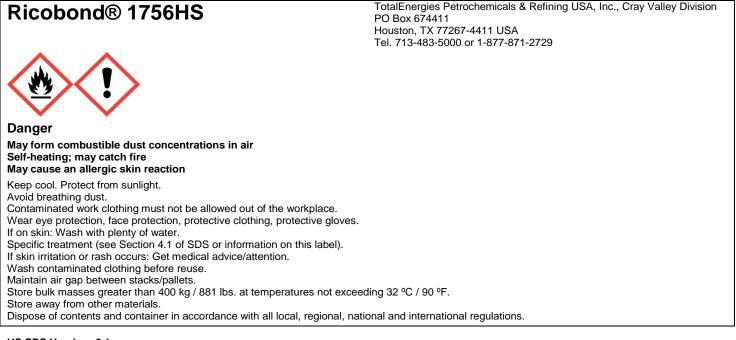
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NFPA (National Fire Protection Association)		
NFPA health hazard	:	2
NFPA fire hazard	:	2
NFPA reactivity	:	1



Hazard System Rating	
Health	: 2
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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