

Safety Data Sheet

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

Jae of the substance/mixture : Elastomers 1.3. Details of the supplier of the safety data sheet Total Petrochemicals & Refining USA, Inc. Tay Valley Division 20 Box 674411 For non-emergency product information: Phone: 713-483-5000 or 1:877-871-2729 Brail: product.stewardship@total.com 1.4. Emergency telephone number Emergency number : CHEMTREC: 1:400-424-9300 (Toll Free USA & Canada) / 703-527-3887 (Multiple languagi Total Petrochemicals & Refining USA, Inc.: 1:400-322-3462 (Language: English only) Section 2: Hazards identification 2.1. Classification of the substance or mixture SHS-US classified 2.2. Label elements GHS-US labeling tazards statements (GHS-US) : This material has no classified hazards under 29 CFR 1910.1200. Precautionary statements (GHS-US) : Precautionary statements not required. Consult the SDS for additional safety information. 2.3. Hazards not otherwise classified : 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 eye and upper respiratory tract. Section 3: Composition/Information on ingredients Substance Substance : Polymer Substance : Polymer Chemical name<		According	g to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200
Induct form : Substance roduct dentifier(s) : Robond® 1731 ther means of identification : Polybutatione, maleinized X8-No. : 179005-14-2 . Recommended use of the chemical and restrictions on use ise of the substance/mixture : Elastomers .3. Details of the supplier of the safety data sheet total Petrochemicals & Refining USA, Inc. Try Valley Division O Box 674411 for non-emergency product information: Total Petrochemicals & Refining USA, Inc. 19405-3000 or 1977-871-2729 themise: product sewardship 82 that. .4. Emergency telephone number Imergency number : CHEMTREC: 1-800-424-9300 (Toll Free USA & Canada) / 703-527-3887 (Multiple langua; Total Petrochemicals & Refining USA, Inc. 10 Box 674411 Section 21 Hazards Identification .4. Emergency telephone number Imergency number : CHEMTREC: 1-800-424-9300 (Toll Free USA & Canada) / 703-527-3887 (Multiple langua; Total Petrochemicals & Refining USA, Inc.: 1-800-322-3482 (Language: English only) Section 21 Hazards Identification 10 Classification Identification 10 Classification Identification 10 Classification Identification 10 Classification Identification 10 classified 10 additional information available 10 additional information available 10 Additional information available 11. Orknown acute toxicity (GHS US) 12 Additional information 13. Hazards not otherwise classified 14. Unknown acute toxicity (GHS US) 15. Additional information 16. Contact with skin or eyes with hot material may cause serious thermal burns. 17. Vapors formed when material is processed at high temperatures may be irritating to the eye and upper respiratory trac. 17. Substance 18. Substance 19. S	Sectio	on 1: Identification	
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	Substar	nce type	: Polymer
CAS-No. : 179005-14-2	Chemic	al name	: 1,3-Butadiene, homopolymer, maleated
	CAS-No	D.	: 179005-14-2
3.2. Mixture			

3.2. Mixture

Not applicable

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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.
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 effec	ts,	both acute and delayed
Symptoms/effects		:	Not expected to present a significant hazard under anticipated conditions of normal use.
	Indication of any immediate medical attention and special treatment needed t symptomatically.		
Section	5: Firefighting measures		
5.1.	Extinguishing media		
Suitable ex	xtinguishing 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		:	Slightly combustible. Heat from fire can generate flammable vapor. When mixed with air and exposed to ignition source, can burn in open air or explode if confined.
Explosion hazard		:	Not expected to be a fire/explosion hazard under normal conditions of use.
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		: Fight fire from safe distance and protected location. Avoid direct personal contact with liquid even after fire is out to prevent potentially serious burns. Use water spray or fog for cooling exposed containers. Apply aqueous extinguishing media carefully to prevent frothing/steam explosion. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Prevent fire-fighting water from entering environment.
Drotostic	n during firstighting	. Do not attempt to take action without switchle protective aswimment. Complete protective

: Do not attempt to take action without suitable protective equipment. Complete protective Protection during firefighting clothing. Self-contained breathing apparatus. Other information - typically Fir ok

Other information	: Fires are typically very smoky.

Section 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures

Emergency procedures for non-emergency personnel	:	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	: Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Keep recovered product for subsequent disposal.
Methods for cleaning up	: Wash away residue with large amounts of water. Gather the product and place it in a spare container that has been suitably labeled.

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 confinition with elevated temperature or molten product to prevent burns. Use only non-sparking tools. Steam drum heaters are recommended. If heating is necessary for drummed product, loose remove bung or lid before warming/heating product to avoid overpressurization in the drum. 	n or
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	
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7.2. Conditions for safe storage, inclu	uding any incompatibilities
Technical measures	 Electrical equipment should conform to the National Electric Code. Containers which are opened should be properly resealed and kept upright to prevent leakage.
Storage conditions	: Keep container tightly closed. Store in a dry place. Keep cool. This material should be stored under inert gas to prevent "skin" formation from occurring. If skin formation does occur, product quality is not compromised. Simply remove skin and use the remainder of the product.
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.

No additional information available

8.2. Exposure controls

Appropriate engineering controls	Provide readily accessible eye wash stations and safety showers. Ensure good ventilation of the work station.	of
Hand protection	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 suitable protective clothing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.	

Section 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: Viscous.
Color	: Colorless to Amber.
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	: No data available
Boiling point	: No data available
Flash point	: > 122 °C Cleveland open cup (COC)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: <1
Solubility	: Water: practically insoluble
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: ~ 50000 mPa.s @ 45 °C
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

Stable under use and storage conditions as recommended in section 7.

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10.3. Possibility of hazardous reactions

Decomposes by polymerization above 204 °C. Once initiated, the reaction generates enough heat to continue spontaneously. Cracks into gaseous and liquid products above 426 °C.

10.4. Conditions to avoid

Direct sunlight. Heat. Avoid temperature above : 87°C.

10.5. Incompatible materials

No additional information available

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	3	
Likely routes of exposure	: Ingestion. Skin and eye contact.	
Acute toxicity	: Not classified Conclusive but not sufficient for classification	
Ricobond® 1731 (179005-14-2)		
LD50 oral rat	> 2000 mg/kg	
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	
	Based on available data, the classification criteria are not met	
Carcinogenicity	: Not classified	
	Based on available data, the classification criteria are not met	
Reproductive toxicity	: Not classified	
	Based on available data, the classification criteria are not met	
Specific target organ toxicity – single exposure	: Not classified	
	Based on available data, the classification criteria are not met	
Specific target organ toxicity – repeated	: Not classified	
exposure	Based on available data, the classification criteria are not met	
Aspiration hazard	: Not classified	
	Based on available data, the classification criteria are not met	

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

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Section 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Product/Packaging disposal recommendations

- : Transfer to a safe disposal area in accordance with federal, state, and local regulations.
- 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) Not regulated by US DOT

Transport by sea (IMDG)

Not regulated by IMDG

Air transport (IATA)

Not regulated by 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) 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.

National inventories	
CANADA Ricobond® 1731 (179005-14-2) WHMIS Classification	This product is not regulated according to WHMIS 2015 classification criteria
15.2. International regulations	
Export Control Classification Number (ECCN):	EAR99 (No License Required)
SARA Section 311/312 Hazard Classes	Not applicable

DSL (Canadian Domestic Sustances List)
ENCS (Japanese Existing & New Chemical Substances inventory)
IECSC (China Inventory of Existing Chemical Substances)

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 Total 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, Total 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 fluids, and stability of this product for any such application, it must first contact Total Petrochemicals & Refining USA, Inc. and establish agreed terms and conditions for such use.

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



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

US OSHA LABEL as specified under 29 CFR §1910.1200 (f)



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

This material has no classified hazards under 29 CFR 1910.1200. Precautionary statements not required. Consult the SDS for additional safety information.

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