



Takht-e-Jamshid Petrochemical Co.

Material Safety Data Sheet (MSDS)

1. Identification

Product Information	Polybutadiene Rubber (PBR 1220)
Product Grade	PBR 1220
Use of the production/Preparation	Tires, conveyor belts, footwear, cables, hosepipes and various technical rubber articles. Restriction on Use : Not available
Information on Product/Supplier Name/Address	Takht-e Jamshid CO, Floor 4 th , No. 38, Gandhi 9 st , Africa highway, Tehran, Iran
Contact	www.tjpc.ir Email:sales@tjpc.ir Tel: +9821-88662055 fax: +9821-88662070
Reach Registration Number	1,3-Butadiene 01-2119471988-16-0081 Registrated by Petrochemical Commercial Company (UK) Ltd – (Subsidiary of Main Shareholder of TJPC) Tel: 0044 207 799 8888 Fax: 0044 207 233 0024 E-mail: pccuk@pccuk.com

2. Hazard Identification

Human health hazards	The material itself is slightly hazardous to the human body. Heating may release small amounts of volatile irritants.
Environmental hazards	The preparation is not dangerous for the environment according to the criteria set by the European Union.
Physical/chemical hazards	The material burns slowly with high smoke density.
HMS Hazard Classification	Health: 0 Flammability: 1 Physical Hazard: 0 Protection: B

3. Composition/Information on Ingredients

Ingredient	CAS Number	EINCS Number	Max Wt%	Hazard Classification
Butadiene 1, 3	106-99-0	203-450-8	~100	

4. First Aid Measures

<p>Emergency and First Aid Procedures:</p> <p>· Inhalation: Irritating vapours may be formed when product is processed at high temperatures. Vapours may cause nausea. Ensure a sufficient air exchange. Move the affected person away from the contaminated area into fresh air; seek medical assistance.</p> <p>· Skin Contact: Dust and vapours can slightly irritate skin. Minimize skin contact. No effect expected by contact with the product at room temperature. Melted product cause burns. Wash with plenty of water. In case of contact with melted material, cool down with cold water and seek medical assistance. Do not remove the product that solidified on skin. Treat as a burn. Prevent from frequently or long-time skin contact - protective clothing and gloves. After work wash hands with water and soap, use reparation cream.</p> <p>· Eye Contact: No hazards expected in normal use at room temperature. Dust – solid particle or gas/vapours released by heath can irritate eyes. Dust can redden eyes. Wash with plenty of water. If irritation persists, seek medical assistance.</p> <p>· Ingestion: Ingestion is not considered a potential route of exposure, but if does – the symptom is abdominal pain. No specific measure requested in case of ingestion. If needed seek medical assistance.</p> <p>Major Disease and Harm Effect: None First Aid Personal Protection: None Prompt to Doctor: None</p>
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5. Fire Fighting Measures

<p>Suitable Extinguishing Media: Use an existing agent suitable for the surrounding fire.</p> <p>Special Exposure Hazards: None known.</p> <p>Special Extinguishing Procedure:</p> <ol style="list-style-type: none"> 1. Firefighters should wear proper protective apparatus including clothes and stay upwind. 2. Move containers out of fire area and put out a fire if it can be done without risk. 3. Cool containers with water spray until the fire is put out. 4. Use water spray; Foam; CO₂ or Dry chemical powder to extinguish flame. 5. Keep personnel removed and upwind of fire, isolate hazard area and deny the right to entry. 6. Avoid inhale any materials or by-products during combustion. <p>Special Protection Equipment: Full protective clothing and self-contained breathing apparatus.</p>

6. Accidental Release Measures

Personal Protection	Wear appropriate personal protective equipment.
Environmental Protection	Avoid approaching heater or ignition source.
Methods for cleaning Up	Large spills Collect spilled material and reuse if possible. Small spills: Collect spilled material in containers and dispose appropriately.

7. Handling and Storage

<p>Handling:</p> <p>Do not eat, drink or smoke when using. Avoid inhalation of fumes/vapors from hot rubbers, compounds and cleaners. Avoid repeated or prolonged contact with skin. Wear gloves and wash hands after use.</p> <p>Storage:</p> <p>With the reference of GB/T 19188 (Rubber, raw natural and raw synthetic – General guidance on storage) (ISO 7664, IDT), and considering the actual storage situation, we suggest that Takhte-e-Jamshid SBR can be stored in a natural condition with normal temperature. Lightproof, ventilated, clean and dry.</p>

8. Exposure Controls/Personal Protection

Engineering Control: Local exhaust ventilation should be necessary to control any air contaminants during all hot processing operations.
Control Factor: · TWA/STEL/CEILING: No special measures. · Biotic Index: No specific measures.
Personal Protection Equipment: · Respiratory Protection: Under ambient temperature, respiratory protection is not required. Void breathing vapor and mist from hot rubbers, compounds and vulcanizes. · Hand Protection: Cloth gloves if desired. · Eye Protection: Wear safety glasses. · Skin & Body Protection: Standard issue work clothes which may include: apron safety shoes or boots as Necessary. Wear heat resistant gloves, arm protection and face shield when working with hot materials.
Hygiene Procedures: Wash thoroughly after handling.

9. Physical And Chemical Prosperity's

Appearance : Solid , Bales	Color : White
Odor : Characteristic (Slight)	Melting Point/Freezing Point : Data not available
pH value : Data not available	Boiling Point/Boiling Range : Not Established
Decomposition Temperature : > 200°C	Flash Point : Not applicable
Spontaneous Temperature : NE	Exposure Limits : Not Available
Vapor pressure: Not Available	Vapor Density : Not applicable
Specific Gravity : 0.94	Solubility in Water : insoluble
Oxidizing properties : Not an Oxidizer	Solubility in fats/ oils : Data not Available
Flammability (Solid, Gas) : No, but the product Will burn if ignited	Viscosity : Not applicable
N-octanol/Water Partition Coefficient : NE	Evaporation Rte: NA

10. Stability and Reactivity

Stability : Stable at ambient temperature and pressure.
Special Condition of Hazardous Reaction: If ignited by excessive heat or open flame the product will burn.
Conditions to Avoid : Extreme temperature, 300-350°C (572-662°F) will cause thermal decomposition.
Incompatibility : Strong Oxidizers.
Hazardous Decomposition Product : Caused by smolding and incomplete combustion toxic fumes maily consisting of CO and CO ₂ may be developed. Degradation products of the polymers and their additives may also be formed.
hydrocarbon. Hazardous Reactions : Will not occur.

11. Toxicological Information

Skin Corrosion/Irritation: Not expected to be corrosion but maybe irritant.
Eye corrosion/Irritation : Not expected to be corrosion but maybe irritant.
Skin Sensitive: May cause sensitization by skin contact.
Aspiration Toxicity : May cause irritation or carcinogens by inhalation of fumes/vapor.
Carcinogenicity: No information available.
Mutagenicity: No information available.
Repeated exposure toxicity: Repeated exposure may cause irritation.
Chronic: No information available.
Exceptional Effect: No information available.

12. Ecological Information

Eco toxicity	Data not available.
Persistence/degradability	Data not available.
Bio accumulative potential	Data not available.
Mobility	Data not available.
Other adverse effects	Data not available.

13. Disposal Considerations

Product disposal Information: Incinerate or landfill in accordance with applicable environment control regulation. Recycle if possible.
Container Disposal: Remove all packing for recover or waste disposal.

14. Transport Information

Internal Transport Regulation: This material is not classified as hazardous under USA DOT regulations Canadian Transportation of Dangerous Goods Regulations Europe Transportation of Dangerous Goods Regulations, IATA Regulations.
Transport Hazard Class: This material is not classified as hazardous according to the UN model Regulations.
Packing Group : This packing group is not classified as hazardous according to the UN model Regulations
Marine Pollutant : This material is not classified as hazardous according to the UN model Regulations, ADR, RID And IMO.
Special Transport Way And Note: None.

15. Regulation Information

OSHA	Rosin fumes are eye and skin irritants & sensitizers.
FDA	Products are not approved for direct or indirect contact with foodstuffs.
SARA Title III	Section 302/304. Extremely Hazardous Substances - None. Section 311. Hazardous Substances - Not Applicable. Section 313. This product is not subject to reporting requirements
EINECS & TSCA	Components are listed.
CA65	Not listed

EU Phrases	Symbol: Xn Harmful Risk Phrases: R43, May cause sensitization by skin contact Safety Phrases: S2-24-37 Contains: Disproportionated rosin acid
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16. Other Information

Reference	None
Supplier	Takht-e-Jamshid Petrochemical Company Floor 4 th , No. 38, Gandi 9 st , Africa highway, Tehran, Iran
Date	2021.09.11
Version	4
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