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## poly butadiene rubber (PBR)

### SECTION 1: PRODUCT DESCRIPTION

TRADE NAME	Synthetic rubber
SYNONYM	cis-polybutadiene, 1,3-butadiene homopolymer, poly(butadiene), butadiene rubber
ARPC Product Code	4401
CHEMICAL NAME	cis-polybutadiene
FORMULA	$\square$ (CH <sub>2</sub> -CH=CH-CH <sub>2</sub> ) $\square$

### SECTION 2: COMPOSITION/DATA ON COMPONENTS:

Description: Polybutadiene rubber

CAS 40022-03-5

Dangerous components: Void

Additional information: Can contain additives.

### SECTION 3: HAZARDS IDENTIFICATION

INHALATION	Irritating vapors may be formed when product is processed at high Temperatures.
SKIN CONTACT	Substance may cause slight skin irritation.
EYE CONTACT	No hazards expected in normal industrial use at room temperature.
INGESTION	Ingestion is not considered a potential route of exposure.

### SECTION 4: FIRST AID MEASURES

INHALATION	Although this product is not known to cause respiratory problems, if breathing is difficult, remove to fresh air and provide oxygen.
SKIN CONTACT	Wash skin with soap and water.
EYE CONTACT	Hold eyelids apart and flush eyes with plenty of water for at least 15 Minutes.
INGESTION	Ingestion is not considered a potential route of exposure.

SECTION 5: FIRE AND EXPLOSION HAZARDS

FLASHPOINT: <input type="checkbox"/>
LOWER FLAMMABLE LIMITS: <input type="checkbox"/>
UPPER FLAMMABLE LIMITS: <input type="checkbox"/>
AUTO IGNITION : <input type="checkbox"/>
EXTINGUISHING MEDIA: Use extinguishing media appropriate for the surrounding fire. (NFPA defined Class A). Carbon dioxide is not generally recommended for use on Class A fires as a lack of cooling capacity may result in reignition.
FIRE FIGHTING PROCEDURES: breathing apparatus should be available for use by authorized personnel

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

Person-related safety precautions: Particular danger of slipping on leaked/spilled product.

Measures for environmental protection: No special measures required.

Measures for cleaning/collecting: Recycle product or dispose properly.

Additional information: Spilled material may present a slipping hazard

### SECTION 7: TOXICOLOGICAL INFORMATION

There is no toxicology information on this material, however, the components possess irritancy potential. The concentration of unreacted 1, 3-butadiene is typically 1 ppm, maximum.

### SECTION 8: PHYSICAL DATA

APPEARANCE AND ODOR: White, slightly yellow bale with slight odor possible.	BOILING POINT: □
SULUB. In WATER: Insoluble in water	MELTING POINT: □
SULUB in OTHER: soluble in petroleum, distillates	SPEC GRAV: 0.90 to 1.02
EVAPORATION RATE: □	VAPOR DENSITY: □
VAPOR PRESSURE: □	MELTING POINT: □

### SECTION 9: HEALTH DATA

CARCINOGENICITY INFORMATION: No known cancer hazards.

MISCELLANEOUS: Poses little or no immediate hazard.

### SECTION 10: PROTECTION INFORMATION

EYE / FACE PROTECTION REQUIREMENTS: Where contact with this material is likely, eye protection is recommended.

SKIN PROTECTION REQUIREMENTS: For brief contact, normal work attire should be sufficient.

RESPIRATORY PROTECTION REQUIREMENTS: Under normal use conditions, with adequate ventilation, no special handling equipment is required.

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels.

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### SECTION 11: REACTIVITY DATA

STABILITY	Stable. Materials containing similar structural groups are normally stable.
CONDITIONS TO AVOID	Avoid temperatures above 177C/350F, the onset of polymer decomposition.
INCOMPATIBILITY	There are no known materials which are incompatible with this product.
HAZARDOUS DECOMPOSITION PRODUCTS	Avoid temperatures above 177C/350F, the onset of polymer decomposition.
HAZARDOUS POLYMERIZATION	Hazardous polymerization will not occur. However, avoid temperatures above 177C/350F, the onset of polymer decomposition.



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### SECTION 12: SPILL AND DISPOSAL PROCEDURES.

**SAFEGUARDS (PERSONNEL):** Wear appropriate personal protection equipment.

**INITIAL CONTAINMENT:** Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

**LARGE SPILLS PROCEDURE:** Handle as solid waste. Vacuum or sweep up material and place in a disposal container.

**SMALL SPILLS PROCEDURE:** Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

**WASTE DISPOSAL:** Treat or dispose of waste material in accordance with all local, State/provincial and national requirements.

### SECTION 13: HANDLING AND STORAGE

**HANDLING (PERSONNEL):** Use with adequate ventilation. Wash hands thoroughly after handling.

**HANDLING (PHYSICAL ASPECTS):** Avoid extreme temperatures. Store in a cool place in original container and protect from sunlight.

**STORAGE PRECAUTIONS:** Avoid extreme temperatures. Store in a cool place in original container and protect from sunlight.

### SECTION 14: ECOLOGICAL INFORMATION

**Information about elimination (persistence and degradability):**

**Other information:** The product is not biodegradable.

**Mobility and bioaccumulation potential:**

There is no bioaccumulation.

**General notes:**

The product is not toxic, small particles can have physical effects on water and soil organisms.

### SECTION 15: TRANSPORT INFORMATION

**Transport/Additional information:**

According to national and international guidelines, which regulate the road-, rail-, air- and seairtransport, this product is classified as not dangerous.

### SECTION 16: OTHER INFORMATION

NFPA Rating: Health - 2, Flammability - 1, Reactivity - 0



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Prepared by Marketing and sales service Department



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