

# BROMOBUTYL RUBBER IMPRAMER™ B

## SAFETY DATA SHEET

IN ACCORDANCE WITH EC-REGULATIONS FOR REACH AND CLP



Reliance Sibur  
Elastomers Private Limited  
A partnership of excellence

Version: 1.0  
Date: 02/12/2022

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier**
- |                        |   |
|------------------------|---|
| Chemical Name          | Brominated Poly (isoprene-co-isobutene)     |
| Commercial name        | IMPRAMER™ B                                 |
| Synonyms               | Brominated Isobutylene/ isoprene copolymer; |
| Trade name             | Bromobutyl Rubber (BIIR)                    |
| CAS No.                | 68441-14-5                                  |
| EC No.                 | 614-497-2                                   |
| REACH Registration No. | The monomers and bromine are registered     |
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
- |                      |   |
|----------------------|---|
| Identified uses      | Tire production, technical rubber parts, rubber compound, pharmaceutical application. |
| Uses advised against | No uses advised against   |
- 1.3 Details of the supplier of the Safety Data Sheet**
- |                        |  |
|------------------------|--|
| Company Identification | Reliance Sibur Elastomers Private Limited<br>8C Reliance Corporate Park,<br>Navi Mumbai 400-709.<br>INDIA  |
| Telephone              | +91 2884034550   |
| Only Representative    | Global Product Compliance (Europe) AB,<br>Ideon Science Park, Scheelevägen 17,<br>Beta 5, 22370 Lund,<br>Sweden<br>+46 46 2114615<br>sk@reach-onlyrep.eu |
- 1.4 Emergency telephone numbers**
- |                                     |  |
|-------------------------------------|--|
| Europe-wide emergency number        | 112  |
| National emergency telephone number | UK. Professionals only. UK National Poisons Information Service<br>+44 844 892 0111. +44 870 600. 6266. 0845 4647 (national number).<br>08454 24 24 24. (National number). Contact details for EU Member States can be found at: <a href="https://poisoncentres.echa.europa.eu/">https://poisoncentres.echa.europa.eu/</a> |

#### Supplier Emergency Telephone Numbers

Office/site	Telephone numbers	Opening hours
Jamnagar Manufacturing Division Village kanalus, Taluka Lalpur, Dist. Jamnagar, Gujarat.		24 hours – 7 days/week
Site Shift Manager	+91 2884034550	
Fire Department	+91 2884035101 +91 2884035102 +91 2884022565	

### SECTION 2: HAZARD IDENTIFICATION

- 2.1 Classification according to Regulation (EC) No 1272/2008**
- 2.1.1 Regulations (EC) CLP 1272/2008** Not classified as dangerous for supply/use.
- 2.2 Label elements**
- |   |      |
|---|------|
| Labelling according to Regulation (EC) No 1272/2008 | Void |
| Hazard pictograms                                   | Void |
| Signal word   | Void |
| Hazard statements                                   | Void |
- 2.3 Other hazards** The components of the mixture have no endocrine-disrupting properties according to Regulation (EU) 2017/2100



### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 Chemical characterisation: Mixture

Ingredient	%W/W	EC No.	CAS No	Classification
Brominated copolymer of 2-methyl-1-propene and 2-methyl-1,3-butadiene	95 – 98 %	614-497-2	68441-14-5	Not classified
Fatty acids, C14-18 and C16-18- unsaturated Calcium salts	1 – 3 %	270-277-2	68424-16-8	Not classified
Epoxidized Soyabean Oil	1 – 2 %	232-391-0	8013-07-8	Not classified

**SVHC** The substance is not listed as SVHC.

### SECTION 4: FIRST AID MEASURES



#### 4.1 Description of first aid measures

General information

Immediate medical attention is required after inhalation or after swallowing

No special measures required.

Spontaneous penetration of Brominated Butyl Rubber into human organism is impossible. Thermal destruction may occur at high temperatures producing isobutylene, isoprene and hydrogen bromide. Brominated Butyl Rubber at normal conditions is non-volatile, causes no exhaustive effects. Inhalational poisoning is not probable. Contact with eyes may cause mechanical damage; irritation and conjunctivitis were not observed. Contact with skin causes no irritation.

If the product has a high temperature, contact with skin causes burn.

Inhalation

Remove the person from the exposed area to fresh air immediately. Seek medical advice immediately if adverse symptoms will appear.

Skin Contact

Not expected to present a significant skin hazard under anticipated conditions of normal use. Contact with molten substance could cause severe burns to skin. After contact with molten product, cool skin area rapidly with cold water. Removal of solidified molten material from skin requires medical assistance.

Eye Contact

Remove contact lenses if used and irrigate exposed eyes with large amount water for at least 15 minutes. Keep eyelids open with the finger. Seek medical advice.

Ingestion

If swallowed wash mouth with water provided person is conscious. Do not induce vomiting. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Seek medical advice immediately.

#### 4.2 Most important symptoms and effects, both acute and delayed

Non hazardous at ambient temperature.

#### 4.3 Indication of immediate medical attention and special treatment needed

No further relevant information available.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

**Suitable Extinguishing Media**

Water in the form of spray is the best media to extinguish. However,



**Unsuitable Extinguishing Media** foam or dry chemical can also be used.  
None known.

- 5.2 Special hazards arising from the substance or mixture** When burning, it emits carbon monoxide, carbon dioxide, hydrogen bromide and irritant fumes. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- 5.3 Advice for fire-fighters** Wear self-contained breathing apparatus and full protective fire-resistant clothing.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Remove all sources of ignition. Avoid breathing vapors, mist, or gas. Avoid skin and eye contact. Use appropriate safety equipment. See section 8 for information on personal protective equipment.
- 6.2 Environmental precautions** Keep fines away from drains. Do not release into the environment.
- 6.3 Methods and material for containment and cleaning up** Collect mechanically. Avoid generating dusty conditions and provide ventilation. All equipment must be grounded. Reuse if possible or dispose of as required by national and local regulations.
- 6.4 Reference to other sections** Section 8

#### SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** Observe fire safety rules. Use antistatic and intrinsically safe equipment. Avoid inhaling vapours and fumes from hot rubber. Use extract and input ventilation.  
Use PPE if necessary. Wash thoroughly after handling. Avoid contact with eyes and skin. Do not ingest or inhale. Minimize dust generation and accumulation. Remove all sources of ignition. All equipment must be grounded.
- 7.2 Conditions for safe storage, including any incompatibilities**  
**Storage Temperature** Stored at ambient temperature, away from direct sunlight and incompatible substances in a closed container.  
**Storage Life** Stable over a long period  
**Incompatible materials** Not known.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- 8.1.1 Occupational Exposure Limits** None assigned
- 8.1.2 Biological limit values** Not known
- 8.2 DNELs and PNECs** Not known
- 8.3 Exposure controls**
- 8.3.1 Appropriate engineering controls** Adequate ventilation must be provided at the work place.
- 8.3.2 Personal protection equipment**
- Eye/face protection Use safety goggles.



Skin protection (Hand protection/ Other) Standard work clothes.





Respiratory protection



In normal conditions nose masks should be available to be used when requested.

Thermal hazards

Wear suitable heat resistant gloves when working at higher temperatures.

Hygiene measures

No smoking, eating or drinking in the workplace.  
 Wash hands thoroughly before eating, drinking.

**8.3.3 Environmental exposure controls** Proceed in accordance with valid air and water legislative regulations.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance at 23°C	Elastic solid
Form	Bales
Colour	White to yellow
Odour	peculiar
Odour threshold (ppm)	Not available
pH (Value)	Not applicable
Melting point (°C)	Not available
Boiling point (°C)	Not applicable
Flash point (°C)	Not applicable
Evaporation rate	Not available
Flammability (solid, gas) %	Not available
Explosive limit ranges.	Not available
Vapour pressure (hPa at 20°C)	Not available
Density (g/cm <sup>3</sup> at 20°C)	0.92 - 0.93
Solubility (water) (mg/l at 25°C)	Insoluble
Solubility (other)	Insoluble in fats, soluble in aromatic solvent
Partition coefficient (n-octanol/ water)	Not applicable
Auto ignition (°C)	>210
Decomposition temperature (°C)	Not available
Viscosity (mPa s at 25°C)	Not available
Explosive properties	Not applicable
Percent Volatile by weight (%)	Not available

## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	The rubber is stable provided the storage conditions are followed.
<b>10.2 Chemical stability</b>	The rubber is stable provided there is the antioxidant and stabilizer and the storage conditions are followed.
<b>10.3 Possibility of hazardous reactions</b>	No dangerous reactions known.
<b>10.4 Conditions to avoid</b>	Avoid high temperatures, naked flames, sparks, long-term exposure to direct sunlight, and contact with incompatible materials.
<b>10.5 Incompatible materials</b>	Avoid the contact with oxidizing substances.
<b>10.6 Hazardous Decomposition Products</b>	Hazardous substances of thermal destruction: carbon oxides, hydrogen bromide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Ingestion LD <sub>50</sub>	Not hazardous
Inhalation LC <sub>50</sub> 4 hr.	Not hazardous
Dermal LD <sub>50</sub>	Not hazardous
Skin corrosion/irritation	Not irritating
Eye damage/irritation	Not irritating
Respiratory or skin sensitization	Not sensitizing
Mutagenicity	No evidence of mutagenicity
Carcinogenicity	No evidence of carcinogenicity



Reproductive toxicity	No evidence of reproductive toxicity
STOT - single exposure	None known
STOT - repeated exposure	None known
<b>11.2</b> Information on other hazards	
<b>11.2.1</b> Endocrine Disruptor Properties	The components of the mixture have no endocrine-disrupting properties according to Regulation (EU) 2017/2100
<b>11.2.2</b> Information on other hazard	No further information is available.

## SECTION 12: ECOLOGICAL INFORMATION

<b>12.1</b> <b>Aquatic Toxicity</b>	
Fish (96hr LC <sub>50</sub> )	Not hazardous
D. magna. (48hr EC <sub>50</sub> )	Not hazardous
Algae (72hr EC <sub>50</sub> )	Not hazardous
<b>12.2</b> <b>Persistence and degradability</b>	Poorly biodegradable
<b>12.3</b> <b>Bioaccumulative potential (measured)</b>	Not available
<b>12.4</b> <b>Mobility in soil</b>	Not available
<b>12.5</b> <b>Results of PBT and vPvB assessment</b>	Does not meet criteria.
<b>12.6</b> <b>Endocrine Disruptor Properties</b>	The components of the mixture have no endocrine-disrupting properties according to Regulation (EU) 2017/2100
<b>12.7</b> <b>Other adverse effects</b>	Non Hazardous to water.

## SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1</b> <b>Waste treatment methods</b>	Disposal should be in accordance with local, state or national legislation. Incinerate or send to landfill in accordance with applicable environmental regulations. This product should not be dumped, spilled, rinsed or washed into sewers or public waterways. The material is recommended for recycle/regeneration and reuse For the handling of the residues the same safety advices given for the preparation are to be applied.
<b>13.2</b> <b>Additional Information</b>	None known
<b>Recommended cleansing agents:</b>	Water, if necessary, together with cleansing agents.

## SECTION 14: TRANSPORT INFORMATION

<b>14.1</b> <b>Land transport (ADR/RID)</b>	Not regulated
<b>14.2</b> <b>Sea transport (IMDG)</b>	Not regulated
Marine Pollutant	No
<b>14.3</b> <b>Air transport (ICAO/IATA)</b>	Not regulated
<b>14.4</b> <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not regulated

## SECTION 15: REGULATORY INFORMATION

<b>15.1</b> <b>Safety, health and environmental regulations/legislation specific for the substance or mixture substance or mixture</b>	
<b>15.1.1</b> <b>EU regulations</b>	Users to follow relevant EU regulations
<b>Authorisations and/or restrictions on use</b>	Non known
<b>15.1.2</b> <b>National regulations</b>	Users to follow relevant national regulations
<b>15.2</b> <b>Chemical Safety Assessment</b>	Chemical Safety Reports have been prepared for the monomers



## SECTION 16: OTHER INFORMATION

### Indication of changes.

Version	Date of Change	Section	Description of Changes
1.0	02/12/2022		First edition created

**Contact Details:** For any enquiry/comment regarding this (Material) Safety Data Sheet, kindly contact the Safety & Operational Risk at [HSE.ExcellenceCentre@ril.com](mailto:HSE.ExcellenceCentre@ril.com)

### Legend

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, bioaccumulative and toxic
LD50	Lethal dose, 50 percent
LC50	Lethal concentration, 50 percent
vPvB	very Persistent and very Bioaccumulative

**References** REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures, amending and repealing COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No. 1907/2006

**Hazard & Precautionary statements.** Not classified

**Training advice:** Personnel handling the product has to be acquainted demonstrably with its hazardous properties, with health and environmental protection principles related to the product and first aid principles.

**Additional Information** Not known

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