

**Section-1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE
AND OF THE COMPANY/UNDERTAKING**

1.1 Identification of the substance/mixture:

Commercial name: IMPRAMER R 1675

Chemical name: Poly (isoprene-co-isobutene)

Synonyms: Isobutylene/ isoprene copolymer; 2 methyl -1.3-Butadiene polymer with 2-methyl-1-propene

1.2 Use of the substance /mixture: Most common technical function of synthetic butyl rubber: tyre production, technical rubber parts (profiles, hoses, shoe soles, belt production, technical rubber goods), rubber compound, medical production.

1.3 MANUFACTURER & SUPPLIER: Reliance Sibur Elastomers Private Limited

Emergency Coordination Centre contact details:

Jamnagar Mfg. Division Village kanalus, Taluka Lalpur, Dist. Jamnagar, Gujarat Pin : 361140	SSM Office : 02884034550	Phone numbers Fire Department : 02884035101/02884035102/02884022565 Security: 02882321010 Occupational Health center: 02882325800
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SSM: Site Shift Manager

Section 2 – HAZARD IDENTIFICATION

2.1 Classification of the substance/mixture: Hazard class and category code.

GHS Category:

Health	Environmental	Physical
None	None	Flammable Category – Not Classified

NA: Not available

GHS Label: None

Signal word: None

Details of statements:

Hazard Statements	None
Precautionary Statement Prevention	None
Precautionary Statement Response	None
Precautionary Statement Storage	None
Precautionary Statement Disposal	Follow local regulation

This product is a polymer and is not classified as dangerous under criteria of Directives No 67/458/EEC, No 1999/45/EC and Regulation (EC) No 1272/2008 (Regulation CLP). This polymer does not contain substances classified as dangerous under Article 59.2 Regulation (EC) No 1272/2008.

2.2 Information pertaining to particular dangers for human: The preparation is not hazardous in the form in which it is placed on the market and under the normal and recommended conditions of storage and use.

2.3 Information pertaining to particular dangers for the environment: The preparation is stable under normal conditions of storage and use. It is not hazardous to the environment in its normal state.

2.4 Other adverse effects: No significant health hazard in normal industrial use conditions. Contact with melted/heated product may cause thermal burns. Processing vapours, which can irritate eyes and respiratory tract, may form when product is heated to high temperatures. Combustible solid.

Products of thermal decomposition – toxic.

Route of entry:

Skin Contact	Skin Absorption	Eye Contact	Inhalation	Ingestion
No	No	Yes	Yes	Yes

DATA REFERENCE: Licensor's Data

Health hazards:

Source	Directive 2005/69/CE and Annex XVII Reg. CE 1907/2006 (REACH)
Carcinogenicity	None

DATA REFERENCE: Licensor's Data

Section 3 – COMPOSITION & INFORMATION ON INGREDIENTS

Ingredients / Hazardous	CAS No.	Percentage
Poly (isoprene-co-isobutene)/none	9010-85-9	≥98.0%

Data reference: Licensor's Data

Section 4 – FIRST AID MEASURES

4.1 General advice: No special measures required.
IMMEDIATE MEDICAL ATTENTION IS REQUIRED AFTER INHALATION OR AFTER SWALLOWING.

Spontaneous penetration of Butyl Rubber into human organism is impossible. Thermal destruction may occur at high temperatures producing isobutylene and isoprene. 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.

4.2 Inhalation

If decomposition or thermal destruction products are inhaled:
Move an exposed person to fresh air at once. Keep warm and at rest. If there is a respiratory distress give oxygen. If respiration stops or shows signs of failing, apply artificial respiration. Get medical attention.

4.3 Skin contact

Remove contaminated clothing and wash skin with plenty of running water, under a shower if affected area is large enough to warrant this. Get medical attention.

4.4 Eye contact

Rinse immediately eye with plenty of low-pressure water for at least 15 minutes. Remove contact lenses. Get medical attention.

4.5 Swallowing

Rubber particles in case of accidental penetration of the airways may cause mechanical irritation of respiratory tract, cough. In this case, the following actions are to be taken.

Wash the mouth with water and give plenty of water to drink, provided the person is conscious. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have the exposed person lean forward. Get medical aid.

Specific and immediate treatment means to be available at the workplace: Eye wash fountain.

Section 5 – FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media:

Water in the form of spray is the best media to extinguish. However, foam or dry chemical can also be used.

5.2 Extinguishing media to be avoided:

Not Applicable

5.3 Caution about specific danger in case of fire and fire-fighting procedures:

When burning, it emits carbon monoxide, carbon dioxide and irritant fumes. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.4 Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus and full protective fire-resistant clothing.

Section 6 – ACCIDENTAL RELEASE MEASURES

6.1 Person-related safety precautions:

See section 8.

6.2 Precautions for protection of the environment:

Keep fines away from drains. Do not release into the environment.

6.3 Recommended methods for cleaning and disposal:

Collect mechanically. Avoid generating dusty conditions and provide ventilation. All equipment must be grounded. Reuse if possible or dispose off as required by national and local regulations (see section 13).

Section 7 – HANDLING AND STORAGE

7.1 Information for safe handling:

Observe fire safety rules. Use extract and input ventilation. Use antistatic and intrinsically safe equipment. Assure air tightness of equipment and communications. 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. Minimise dust generation and accumulation. Remove all sources of ignition. All equipment must be grounded.

7.2 Information for storage:

Store in a cool, dry, well-ventilated area away from direct sunlight and incompatible substances in a closed container.

Keep away from source of open fire.

7.3 Information for specific use:

Not Applicable.

Section 8 – EXPOSURE CONTROL & PERSONAL PROTECTION

8.1 Occupational Exposure Limits:

Due to physical and chemical properties and low toxicity there is no hygienic regulations for the air exposure limits.

8.2 Occupational exposure controls:

Traces of monomers and others volatile substances may be given off during processing, particularly at unusually high processing temperatures.

Work rooms must be provided with adequate ventilation and exhaust equipment to collect fines and gas/vapour that may be emitted during the conversion.

Equipment to provide adequate and personal protection:

Respiratory protection:

A NIOSH/MSHA approved dust respirator is recommended if the airborne dust concentration is near or exceeds the exposure limits for Particulates Not Otherwise Classified (PNOC) or an organic vapour cartridge should be used if ventilation is not sufficient to control fumes released during thermal processing.

Eye protection:

Use safety goggles.

Hand protection:

Chemical substances resistant gloves.

Body protection: Standard work clothes.

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

8.3 Environmental exposure controls:

Proceed in accordance with valid air and water legislative regulations.

Engineering measures: Provide adequate ventilation in the area

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Physical state at 23°C	Elastic solid
: Form	Bales
: Colour	White to yellow
Odour	Peculiar
Density	0.91-0.92 g/cm ³
Bulk Density	Not Applicable
Softening temperature	Not Applicable
Auto flammability (°C)	425 ± 15
Ignition temperature (°C)	310 ± 15
Solubility in water	Insoluble
Solubility with other solvents	Insoluble in fats, soluble in aromatic solvent

DATA REFERENCE: Licensor's data

Section 10 – CHEMICAL STABILITY AND REACTIVITY INFORMATION

The rubber is stable provided there is the antioxidant and the storage conditions are followed. High temperatures cause thermal destruction with emissions of isobutylene and isoprene.

10.1 Conditions to avoid: Avoid high temperatures, naked flames, sparks, long-term exposure to direct sunlight, contact with incompatible materials.

10.2 Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

10.3 Material to avoid: Avoid the contact with oxidizing substances.

AIR AND WATER REACTIONS: Not Applicable

REACTIVE GROUPS: Not Applicable

10.4 Hazardous decomposition products: Hazardous substances of thermal destruction: spirits, aldehydes, ketones, acids (C1-C4), carbon oxides.

Section 11 – TOXICOLOGICAL INFORMATION

Specific information on the preparation is not available in the literature. Residual monomers are present in the product at trace level, hindered in the elastomer matrix and therefore not available in normal conditions.

11.1 Dangerous effects from exposure to the preparation: The possible fines may cause irritation to the eyes and/or respiratory organs.

Poly (isoprene-co-isobutene) has no local irritating effect on the gastrointestinal tract when inhaled, conjunctiva, skin-resorptive and sensitizing effect.

Data Reference: Licensor's data

11.2 Repeated dose toxicity: Not Available

11.3 Sensitisation: Not Available

11.4 CMR effects (carcinogenicity, mutagenicity, toxicity for reproduction): no evidence of these effects has been reported for the preparation.

11.5 Toxicokinetics, metabolism, distribution: Not Applicable

Section 12 – ECOLOGICAL INFORMATION

12.1 Ecotoxicity data: No further relevant information available.

12.2 Aquatic Toxicity: No further relevant information available.

12.3 Persistence and degradability: The product is poorly biodegradable.

12.4 Bio accumulative potential: NA

12.5 Mobility in Soil: NA.

12.6 Results of PBT and vPvB assessment Persistence and Degradation:
Not applicable.

12.7 Other adverse effects: No further relevant information available.

Environmental Fate: Not applicable

Section 13– DISPOSAL CONSIDERATION

Local Legislation: Disposal should be in accordance with applicable regional, national, and local laws and regulations. This product should not be dumped, spilled, rinsed or washed into sewers or public waterways.

For the handling of the residues the same safety advices given for the preparation are to be applied.

13.1 Recommended disposal methods for the substance / mixture

Appropriate methods of disposal of preparation: Residues should be disposed of as required by national and local regulations. It is recommended to go for recycling of material with authorized recyclers.

Uncleansed packaging:

13.2 Recommendation: Disposal must be made according to local regulations.

13.3 Recommended cleansing agents: Water, if necessary together with cleansing agents.

13.4 Waste regulation: Follow local regulation.

Section 14– TRANSPORT INFORMATION

International Transport Regulation:

ADR/RID (Road/Rail), IMDG (Sea) and ICAO/IATA (Air) The preparation is not classified as dangerous for the transport according to the following regulations: ADR/RID, IMO, IATA.

14.1

Proper Shipping Name: Not Defined

Hazard Class: Not Defined

UN Number: Not Defined

Emergency Action Code: Not Defined
14.2 Special transport precautionary measures: None

Section 15– REGULATORY INFORMATION

MSDS format on a 16 Section based on guidance provided in:

Indian Regulation:

Manufacture, Storage and Import of Hazardous Chemicals Rule, 1989.
The Factories Act 1948

International Regulations:

European SDS Directive
ANSI MSDS Standard
ISO 11014-1 1994
WHMIS Requirements

United States

Hazard Communication Standard

Canada

Hazardous Products Act and Controlled Products Regulations

Europe

Dangerous Substance and Preparations Directives

Australia

National Model Regulations for the Control of Workplace Hazardous Substances

The Globally Harmonized System of Classification and Labeling of Chemicals endorsed by The UN Economic and Social Council

*RISK PHRASES: R phrases: None

*SAFETY PHRASES: None

*These standard risk and safety phrases for use when interpreting (Material) Safety data Sheets are derived from the European Union Regulation, CHIP Regulations - Chemicals (Hazard Information and Packaging for Supply). They are required to be used in (Material) Safety Data Sheets to identify potential hazards and offer safe handling advice.

Section 16 – OTHER INFORMATION

Training instructions

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.

Tremcard details/Reference: Refer Section 14

Local bodies involved (Applicable only with in India): Local District Authority and Local Crisis Group

Sources of data used to compile the (Material) Safety Data Sheet

Data compilation reference: Licensor's Data

(M)SDS Revision Status:

Date of Revision	Revised Sections	Supersedes
May 31, 2019	None as First Issue	None
May 01, 2023	Section 5, 8 and 13	01

This (M)SDS is issued by Reliance Sibur Elastomers Private Limited

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

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End of (M)SDS