

IMPRAMER™ C CHLOROBUTYL RUBBER

SAFETY DATA SHEET

IN ACCORDANCE WITH EC-REGULATIONS FOR REACH AND CLP

Version: 1.0
Date: 02/12/2022



Reliance Sibur
Elastomers Private Limited
A partnership of excellence

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

1.1 Product identifier

Chemical Name	Chlorinated Poly (isoprene-co-isobutene)
Commercial name	IMPRAMER™ C CHLOROBUTYL RUBBER
Synonyms	Chlorinated Isobutylene/ isoprene copolymer;
Trade name	CHLOROBUTYL RUBBER (CIIR)
CAS No.	68081-82-3
EC No.	614-265-0
REACH Registration No.	The monomers and chlorine 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 8C Reliance Corporate Park, Navi Mumbai 400-709. INDIA
Telephone	+91 2884034550
Only Representative	Global Product Compliance (Europe) AB, Ideon Science Park, Scheelevägen 17, Beta 5, 22370 Lund, Sweden +46 46 2114615 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 +44 844 892 0111. +44 870 600. 6266. 0845 4647 (national number). 08454 24 24 24. (National number). Contact details for EU Member States can be found at: https://poisoncentres.echa.europa.eu/

Supplier Emergency Telephone Numbers

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

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification according to Regulation (EC) No 1272/2008

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

2.3 Hazard statements

Other hazards The components of the mixture have no endocrine-disrupting properties according to Regulation (EU) 2017/2100



SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance
Not Applicable

3.2 Mixtures.

Ingredient	%W/W	EC No.	CAS No	Classification
Chlorinated copolymer of 2-methyl-1-propene and 2-methyl-1,3-butadiene	97 – 99 %	614-265-0	68081-82-3	Not classified
Fatty acids, C14-18 and C16-18- unsaturated Calcium salts	1 – 3 %	270-277-2	68424-16-8	Not classified

SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Immediate medical attention is required after inhalation or after swallowing.

Spontaneous penetration of Chlorobutyl Rubber into human organism is impossible.

Thermal destruction may occur at high temperatures producing isobutylene, isoprene and hydrogen chloride. Chlorobutyl 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.

General information

No special measures required.

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

Eye wash fountain.

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, foam or dry chemical can also be used.



Unsuitable Extinguishing Media None known.

- 5.2 Special hazards arising from the substance or mixture** When burning, it emits carbon monoxide, carbon dioxide, hydrogen chloride 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 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** Store in a cool, dry, well-ventilated area away from direct sunlight and incompatible substances in a closed container.
- Storage Temperature** Keep away from source of open fire.
Stored at ambient temperature, away from direct sunlight and incompatible substances in a closed container.
- Storage Life** Stable over a long period
- Incompatible materials**
- 7.3 Information for specific use:** Not Applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- 8.1. 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.
- 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) Chemical substances resistant gloves.



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	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/ cm³ 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

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



SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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.

Ingestion LD₅₀	Not hazardous
Inhalation LC₅₀ 4 hr.	Not hazardous
Dermal LD₅₀	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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties The components of the mixture have no endocrine-disrupting properties according to Regulation (EU) 2017/2100

11.2.2 Information on other hazard No further information is available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Aquatic Toxicity

Fish (96hr LC ₅₀)	Not hazardous
D. magna. (48hr EC ₅₀)	Not hazardous
Algae (72hr EC ₅₀)	Not hazardous

12.2 Persistence and degradability The product is poorly biodegradable.

12.3 Bioaccumulative potential (measured) Not available

12.4 Mobility in soil Not available

12.5 Results of PBT and vPvB assessment Does not meet criteria.

12.6 Endocrine disrupting properties The components of the mixture have no endocrine-disrupting properties according to Regulation (EU) 2017/2100

12.7 Other adverse effects Not hazardous for water.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods 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. 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.

13.2 Additional Information None known

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

SECTION 14: TRANSPORT INFORMATION

14.1 Land transport (ADR/RID)	Not regulated
14.2 Sea transport (IMDG)	Not regulated
Marine Pollutant	No
14.3 Air transport (ICAO/IATA)	Not regulated



14.4 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not regulated

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture substance or mixture

- 15.1.1 EU regulations** Users to follow relevant EU regulations
Authorisations and/or restrictions on use Non known
- 15.1.2 National regulations** Users to follow relevant national regulations
- 15.2 Chemical Safety Assessment** 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

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/vPvB	Persistent, bioaccumulative and toxic. Very Persistent, very Bioaccumulative
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: Ensure staff and workers receive adequate training with regular updates in the handling of rubber.

Additional Information Not known

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