



REPOL PP Atactic type Copolymer

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

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| Product Name: | Repol PP |
| Company Identification: | Reliance Industries Limited, Polymer Business, Reliance Corporate Park, Block 8A, (First Floor) Thane Belapur Road, Ghansoli Navi Mumbai, 400701 - India |
| Telephone: | +91-22-44781022 |
| FAX: | +91-22-44770851 |
| E-mail: | polymer_patsupport@ril.com |
| Emergency Phone No. | +91-265-6696000 (10.30 – 18.00 hrs.) |
| Use of Substance / Preparation: | Industrial use only. Hot-melt adhesive, paper coating and lamination, Carpet backing, Bitumen replacement in heavy duty paper sacks, Bitumen modification for road building and roofing. |

2. HAZARDS IDENTIFICATION

Not classified as dangerous for supply/use. The preparation does not meet the criteria for classification in accordance with Directive 1999/45/EC and Directive 1272/2008/EC.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 chemical composition:

Polypropylene atactic type copolymer with ethylene CAS No.: 9010-79-1; 99 % (Minimum).

| HAZARDOUS INGREDIENT(S) | %WW | CAS No. | EC No. | EC Classification |
|-------------------------|-----|---------|--------|-------------------|
| None. | | | | |

4. FIRST AID MEASURES



4.1 Inhalation

Inhalation at room temperature will not cause any health hazard as the product is in bale or lump form. Remove to fresh air and drink water to clear throat.

4.2 Skin Contact

After contact with skin, wash immediately with plenty of soap and water.

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| Revision: 8 | Page: 1/5 | Date: 20 March 2019 |
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REPOL PP Atactic type Copolymer

In case of burns from hot material immediately cool affected skin as long as possible with cold water. Obtain medical attention.

4.3 Eye Contact

Temporary irritation or redness may occur. Do not rub. If effects occur, consult a physician, preferably an ophthalmologist.

4.4 Ingestion

Unlikely to be hazardous if swallowed. Provided the patient is conscious, wash out mouth with water and give 200-300 ml (half a pint) of water to drink. Do not induce vomiting. If symptoms develop, obtain medical attention.

4.5 Further Medical Treatment

Unlikely to be required but if necessary treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

As appropriate for surrounding fire. Extinguish preferably with foam, carbon dioxide or dry chemical.

5.2 Unsuitable Extinguishing Media

Do not use water jet or waterspray.

5.3 Fire Fighting Protective Equipment

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

5.4 Hazardous Decomposition

Combustion or thermal decomposition will evolve toxic and irritant vapours.

Product(s)

5.5 Other

Can melt and burn in a fire. Molten material tends to flow or drip and will propagate fire.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Ensure suitable personal protection (including respiratory protection) during removal of spillages.

6.2 Environmental Exposure Controls

Avoid release to the environment. Do not allow to enter drains, sewers or watercourses.

6.3 Methods for cleaning up

Sweep up and shovel into waste drums or plastic bags.

7. HANDLING AND STORAGE

7.1 HANDLING

Do not eat, drink or smoke at the work place. Wash face and hands before eating, drinking or smoking. Will accumulate static charges that may cause an electric spark (ignition source). Take precautionary measures against static discharges.

7.2 STORAGE

Keep only in the original container. Keep container tightly closed. Keep in a cool, well ventilated place. Keep away from heat and direct sunlight. This product should be kept away from naked flames and other sources of ignition.

Storage Temperature:

Ambient.

Storage Life:

Stable at ambient temperature.

Specific use:

Industrial use only.



REPOL PP Atactic type Copolymer

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures.

OCCUPATIONAL EXPOSURE LIMITS

| SUBSTANCE. | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m ³) | STEL (ppm) | STEL (mg/m ³) | Note: |
|---|---------|--|------------------------------------|------------|---------------------------|------------------|
| Polypropylene atactic copolymer with ethylene | | No Occupational Exposure Limit assigned. | | | | |
| Dust. | - | | 10 | | | Total Dust. |
| | | | 4 | | | Respirable Dust. |



8.1 Respirators

No special requirements. Provide adequate ventilation, including appropriate local extraction if fumes or vapours are likely to be evolved. Where engineering controls are not fitted or inadequate wear suitable respiratory protective equipment.



8.2 Eye Protection

Eye protection with side protection (EN 166).



8.3 Gloves

Wear suitable gloves if prolonged skin contact is likely. When dealing with hot material: Insulating gloves EN 407 (heat).

8.4 Other

Protective working garments (e.g. safety shoes EN 344, long sleeved protective working garments). Contaminated clothing should be thoroughly cleaned.

8.5 Environmental precautions

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. PHYSICAL AND CHEMICAL PROPERTIES

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|---------------------------------------|---|
| Form | Solid. Bale or lump form. |
| Colour | White. Off-white. |
| Odour | Odourless. |
| pH (Value) | Not applicable. |
| Decomposition Temperature (°C) | > 300 (572°F) |
| Boiling Point (°C) | Not applicable. |
| Softening Point (°C) | 100 - 120 (212 – 248°F) by ball and ring method. |
| Flash Point (°C) [Closed cup] | > 300 (> 572°F) |
| Auto Ignition Temperature (°C) | > 410 (>770°F) |
| Explosive Properties | Not explosive. Unlikely to represent a dust hazard under normal handling conditions. Minimum explosive limit: 10 mg/m ³ (typically). |
| Minimum Ignition Energy (mJ) | 25 (typically) |



REPOL PP Atactic type Copolymer

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| Oxidising Properties | Not applicable. |
| Vapour Pressure (Pascal) | Not applicable. |
| Specific Gravity | 0.88 – 0.92 |
| Solubility (Water) | Insoluble. |
| Percent Volatile by volume (%) | < 0.1 |

10. STABILITY AND REACTIVITY

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| 10.1 Chemical Stability | Stable under normal conditions. Decomposes at temperatures above 300°C. |
| 10.2 Conditions to avoid | Heat and direct sunlight. |
| 10.3 Materials to avoid | Direct contact with open flames, self igniting and explosive materials. |
| 10.4 Hazardous Decomposition Product(s) | Carbon monoxide, Carbon dioxide, Hydrocarbons and Acrid smoke. |

11. TOXICOLOGICAL INFORMATION

Low toxicity under normal conditions of handling and use.

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| 11.1 Ingestion | Low oral toxicity. Polypropylene Copolymer: LD50 (rat) : >5000 mg/kg |
| 11.2 Inhalation | Low acute toxicity. Vapours or fumes evolved during thermal processing may cause irritation to the respiratory system. |
| 11.3 Skin Contact | No evidence of irritant effects from normal handling and use. |
| 11.4 Eye Contact | Permanent damage is unlikely. |
| 11.5 Long Term Exposure | Chronic effects are unlikely. |

12. ECOLOGICAL INFORMATION

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| 12.1 Environmental Fate and Distribution | Solid insoluble in water. Floats on water. The product has low mobility in soil. |
| 12.2 Persistence and Degradation | The product is non-biodegradable. |
| 12.3 Toxicity | Low toxicity to aquatic organisms. |
| 12.4 Effect on Effluent Treatment | Unlikely to affect biological treatment processes. |

13. DISPOSAL CONSIDERATIONS

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| 13.1 Regulatory information | Do not allow to enter drains, sewers or watercourses. Disposal should be in accordance with local, state or national legislation. |
| 13.2 Recommended: | Normal disposal is via incineration operated by an accredited disposal contractor. Refer to manufacturer/supplier for information on recovery/recycling. |

14. TRANSPORT INFORMATION

International Transport Regulations: Not classified as dangerous for transport

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| UN No.: | Not applicable. |
| Road/Rail (ADR/RID): | Not applicable. |
| Class/Packing Group: | Not applicable. |
| IMDG Class | Not applicable. |



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ICAO/IATA Class Not applicable.

15. REGULATORY INFORMATION

EC Classification Not classified as dangerous for supply/use.
Hazard Symbol Not applicable.
Risk Phrases Not applicable.
Safety Phrases Not applicable.

INTERNATIONAL INVENTORIES

EINECS (Europe) EINECS: Polymer. Monomers included.

16. OTHER INFORMATION

This Material Safety Data Sheet was prepared in accordance with Directive 2001/58/EC and EC Regulation (EC) No. 1907/2006.

Repol meets the requirements stipulated in IS 10910 on, 'Specification for Polypropylene and its copolymers for safe use in contact with foodstuff, pharmaceuticals and drinking water'. Additives incorporated in Repol grades conform to the positive list of constituents as prescribed in IS 16738:2018. The product and the additives incorporated in it also comply with the FDA: CFR Title 21,177.1520 Olefin polymer.

The following sections contain revisions or new statements: 1 - 16

This Material Safety Data Sheet and the health, safety and environmental information it contains are intended to provide a summary of our knowledge and guidance regarding use of the designated Product. Its contents are offered in good faith as accurate and complete as of the date specified below, but without guarantee. The data herein applies only to the Product sold by entities of the Reliance group and not to products sold by others. It relates only to the Product and does not relate to its use in combination with any other product or material or in any process.

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Appropriate warnings and safe handling procedures should be provided to all handlers and users. In the case of a user in the European Union, as per Article 34 of REACH Regulation (EC) No. 1907/2006, user shall communicate to Reliance any new information on hazardous properties of the Product and/or new information relevant to risk management measures for the identified uses.

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