



MATERIAL SAFETY DATA SHEET

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

Product Name:

Company Identification:

RELENE HDPE

Telephone: FAX: E-mail: Emergency Phone No. Use of Substance / Preparation:

2. HAZARDS IDENTIFICATION

Reliance Industries Limited, Polymer Business, Reliance Corporate Park, Block 8A, (First Floor) Thane Belapur Road, Ghansoli Navi Mumbai, 400701 - India +91-22-44781022 +91-22-44770851 polymer patsupport@ril.com +91-265-6696000 (10.30 – 18.00 hrs.) Industrial use only. Raw material for plastics processing industry.

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:

High Density Polyethylene CAS No.: 9002-88-4; 99 % (Minimum).

HAZARDOUS INGREDIENT(S)	%W/W	CAS No.	EC No.	EC Classification
None.				

4. FIRST AID MEASURES

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4.1 Inhalation	Remove patient from exposure. Keep patient at rest and give oxygen if breathing difficult. If symptoms develop, obtain medical attention.
4.2 Skin Contact	After contact with skin, wash with water. 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	Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart. If symptoms persist, obtain medical attention.
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 5.3 Fire Fighting Protective Equipment	,

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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 ME	ASURES			
6.1 Personal Precautions	Caution - spillages may be slippery. Ensure suitable personal protection (including respiratory protection) during removal of spillages. Dust clouds are sensitive to ignition by electrostatic discharge.			
6.2 Environmental Exposure Controls 6.3 Methods for cleaning up	Avoid release to the environment. Do not allow to enter drains, sewers or watercourses. Sweep up and shovel into waste drums or plastic bags.			
7. HANDLING AND STORAGE				
7.1 HANDLING	Control dust formation. 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:	Ämbient.			
Storage Life:	Stable at ambient temperature.			
Specific use:	Industrial use only.			

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	Ε.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note:
High Densit	ty Polyethylene	9002-88-4	4 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 dusts, 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. PHYSI	ICAL AND CHEMICAL I	PROPERTIES					

Form

Solid. Granular.





Colour Odour pH (Value) Decomposition Temperature (°C) Boiling Point (°C) Melting Point (°C) Flash Point (°C) [Closed cup] Auto Ignition Temperature (°C) Explosive Properties Minimum Ignition Energy (mJ) Oxidising Properties Vapour Pressure (Pascal) Specific Gravity Solubility (Water) Percent Volatile by volume (%)	White. Off-white. Odourless. Not applicable. > 300 (572 °F) Not applicable. 120 - 150 (248 - 302°F) > 300 (> 572°F) > 300 (> 572°F) Not explosive. Unlikely to represent a dust hazard under normal handling conditions. Minimum explosive limit:: 10 mg/m ³ (typically). 10 (typically) Not applicable. Not applicable. Not applicable. 0.94 - 0.97 Insoluble. < 0.1
10. STABILITY AND REACTI	νιτγ
10.1 Chemical Stability 10.2 Conditions to avoid 10.3 Materials to avoid 10.4 Hazardous Decomposition Product(s)	Stable under normal conditions. Decomposes at temperatures above 300°C Heat and direct sunlight. Direct contact with open flames, self igniting and explosive materials. Carbon monoxide, Carbon dioxide, Hydrocarbons and Acrid smoke.
11. TOXICOLOGICAL INFOR	MATION
Low toxicity under normal conditions of 11.1 Ingestion 11.2 Inhalation 11.3 Skin Contact 11.4 Eye Contact 11.5 Long Term Exposure	handling and use. Low oral toxicity. High Density Polyethylene: LD50 (rat) : >5000 mg/kg Low acute toxicity. Dusts and vapours or fumes evolved during thermal processing may cause irritation to the respiratory system. No evidence of irritant effects from normal handling and use. Dust may have irritant effect on eyes. Permanent damage is unlikely. Chronic effects are unlikely.
12. ECOLOGICAL INFORMA	TION
12.1 Environmental Fate and Distribution 12.2 Persistence and Degradation 12.3 Toxicity 12.4 Effect on Effluent Treatment	Solid insoluble in water. Floats on water. The product has low mobility in soil. The product is non-biodegradable. Low toxicity to aquatic organisms. Unlikely to affect biological treatment processes.
13. DISPOSAL CONSIDERA	ΓΙΟΝS
13.1 Regulatory information 13.2 Recommended:	Do not allow to enter drains, sewers or watercourses. Disposal should be in accordance with local, state or national legislation. Normal disposal is via incineration operated by an accredited disposal contractor. Refer to manufacturer/supplier for information on recovery/recycling.
14. TRANSPORT INFORMAT	TON
	ons: Not classified as dangerous for transport
Road/Rail (ADR/RID):	Not applicable.
Class/Packing Group: IMDG Class ICAO/IATA Class	Not applicable. Not applicable. Not applicable.
15. REGULATORY INFORMA	ATION

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

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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.

RELENE meets the requirements stipulated in IS 10146 on, 'Specification for Polyethylene and its copolymers for safe use in contact with foodstuff, pharmaceuticals and drinking water'. Additives incorporated in RELENE 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.

Local laws and regulations and conditions of use and suitability of the product for particular uses are beyond the control of Reliance; all risks of use, storage, handling, transportation and disposal of the Product are therefore assumed by the user and Reliance expressly disclaims all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the Product. Reliance shall not be responsible for any damage or injury resulting from abnormal use of the Product, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the Product.

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.

Alteration or re-publication of this document in whole or part is strictly prohibited.

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