MATERIAL SAFETY DATA SHEET (MSDS)

1. CHEMICAL IDENTITY HDPE

Chemical Name	High Density Poly ethylene	Trade name	HDPE
Synonyms	Poly ethylene	Chemical classification	Synthetic polymer
Formula	$(C_2H_4)n$	CAS Number	25087-34-7/25895-47-0
UN number	DNA	UN Hazard class	DNA
Hazchem code (EAC)	DNA		
REGULATED IDENTIFICATION		Hazardous ingredients	CAS No. 25087-34-7/25895-47-0
Shipping Name	DNA	-	-
Shipping code/ Label	DNA		
Hazardous waste Id No.	Not pertinent		
Uses: Manufacture of pipes, carbuoys, bags, sacks etc.			

2. PHYSICAL AND CHEMICAL DATA

Boiling point/ Range °C	Decomposes	Physical state	Solid	Appearance	Spheres, pellets
Melting/ Freezing Point °C	115-130	Vapour Pressure(at 20 °C)	DNA	Odour	Odourless
		mm Hg			
Vapour Density (Air =1)	Not	Solubility in water (at 30 °C)	Insoluble	Other Inform	ations
	pertinent	•			
Specific gravity (at 20 °C)	0.94-0.958	pH	Not		
(water =1)			pertinent		

3. FIRE AND EXPLOSION HAZARD DATA

Flash point °C (CC)	DNA	Flammability LFL % v	10 g/m^3	TDG Flammability	DNA
(OC)		UFL % v	Not appli.		
Explosion sensitivity to	No	Explosion sensitivity to	No	Autoignition Temperature	390
impact		static electricity		°C	
Combustible Material	No	Explosive Material	No	Hazardous Polymerization	will not occur
Flammable Material	No	Oxidiser	No	Corrosive Material	No
Pyrophoric Material	No	Organic Peroxide	No	Other information :	
Hazardous Combustion					
Products					

4. REACTIVITY DATA

Chemical stability	Stable
Incompatibility with other	React violently with F2
Materials	
Reactivity	
Hazardous Reaction Products	Acrid smoke and fumes. Very low levels of other dec. products as acrolein may develop.

5. HEALTH HAZARD DATA

Route of entry	Inhalation, skin contact, ingestion			
Effect of exposure/ Symptoms	Iinhalation : there is no evidence for inhalation. Dust may cause irritation			
	Skin contact : generally direct contact doesn't lead to skin irritation.			on.
	Ingestion : the resin itself is inert and harmless, but certain additives could be harmful.			litives could be harmful.
	Ingestion must be avoided			
Emergency treatment	Inhalation : in case of excessive inhalation of fumes, remove the affected person to the			
	fresh air as soon as possible.			
	Skin : wash skin with soap and water			
	Eyes : Flush out with a copious volume of water any material entering the eyes.			
	Medical assistance is required			
Permissible Exposure Limit	TLV-TWA (ACGIH)	DNA	STEL(ACGIH)	DNA
TDLo imp-rat:	IDLH	DNA	Odour threshold	Not pertinent
NFPA Hazard signals	Health	Flammability	Reactivity	Special
	0	1	0	-

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6. PREVENTIVE MEASURES

HDPE

PERSONAL PROTECTIVE	Dust mask, gloves, safety goggles or glasses, no slip shoes.		
MATERIAL			
HANDLING AND	Keep away from sources of ignition or heat, in dry, well ventilated area. In storage and working		
STORAGE PRECAUTIONS	rooms avoid spheres spilling as a possible cause of slipping.		

7. EMERGENCY AND FIRST AID MEASURES

FIRE (Class of fire: A)			
Fire extinguish media	Water spray, foam, dry chemical, carbon dioxide		
Special Procedures	cool exposed containers with water		
Unusual Hazards	By direct ignition the product burns with flames developing H ₂ 0, CO ₂ and in case of oxygen		
	defeciency, also CO		
EXPOSURE			
First Aid Measures	Inhalation: in case of excessive inhalation of fumes, remove the affected person to the fresh air as soon as possible. Skin: wash skin with soap and water Eyes: Flush out with a copious volume of water any material entering the eyes. Medical assistance is required		
Antidotes/ Dosages			
SPILLS			
Steps to be taken	Collect for reuse or disposal		
Waste Disposal Method	By disposal at approved landfill tips or incinerator oven. The product is assimilated to urban waste.		

8. ADDITIONAL INFORMATION/ REFERENCES

ECOLOGICAL INFORMATION			
Ecotoxicity	DNA		
Persistence	DNA		
OTHER INFORMATION			
REFERENCES (FOR OBTAINING MORE INFORMATION)			
MSDS-Tecnimont			

9. MANUFACTURER/SUPPLIER'S DATA

Haldia Petrochemicals Limited,	Contact person in Emergency	Emergency leader
Durgachak, Haldia, Midnapore,		
WB- 721 602		
PH: (03224) 74384/400/007	Local Bodies Involved	The Additional District Magistrate
Fax: (03224) 74012/420	Standard Packing	
	Termcard details/ Ref	
	Others	-

10. DISCLAIMER

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