

LLDPE

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUBSTANCE OR PREPATION TRADE NAME	Halene L
CHEMICAL CLASSIFICATION	Synthetic polymer
COMPANY/ UNDERTAKING NAME AND ADDRESS	Haldia Petrochemicals Limited, PO Box No 12, Haldia Plant PO Durgachak, Dist Midnapore West Bengal, India PIN 721 602
TELEPHONE EMERGENCY TELEPHONE NUMBER	091-3224-274384 / 274400 091-3224-275916

2. COMPOSTION AND INFORMATION ON INGREDIENTS

CHEMICAL NAME	CONTENT	CAS NUMBER	EXPOSURE LIMITS IN AIR		N AIR
	(Normal)*		ACGIH	ACGIH	IDLH
			TLV-TWA	TLV-STEL	
Linear low density	99.25 wt%	25087-34-7 /	10 mg/m^3	NA	NA
Polyethylene	Ethylene	25896-47-0			
	~92.5%				
	Butene-1 ~ 7.5%				
Proprietary	<= 0.75 wt%	Mixture			
Additives					
* For different grade of LLDPE, minor changes may be there.					

3. HAZARD CLASSIFICATION

EMERGENCY OVERVIEW POTENTIAL HEA			communi explosive Temperat	catio mix ture	on definition. D ctures with air. A irritating fumes			
	EY	E	SKIN		INHALATION	N	INGESTIO N	OTHERS
ACUTE	Mechar irritatio possible	n is e	thermal burns	polymer process may cause vapours thermal soreness		und n y	Ingestion not a likely route of exposure	
CHRONIC			ronic health					
NFPA HAZ		H	EALTH	FLA	MMABILITY	R	EACTIVITY	SPECIAL
SIGNAL HAZCHEMC			0	1			0	

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4. FIRST AID MEASURES

SKIN CONTACT	If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissues and polymer. Do not
	attempt to peel the polymer from skin. Obtain immediately emergency
	medical attention if burn is deep or extensive
EYE CONTACT	Wash eyes with clean low-pressure water. Seek medical attention if
	discomfort persists.
INHALATION	If symptoms are experienced, move victim to fresh air. Obtain medical
	attention if breathing difficulty persists
INGESTION	Adverse health effects due to ingestion are not anticipated
	- ^
OTHER INSTRUCTIONS	

5. FIRE FIGHTING MEASURES

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FLASH POINT	NA
AUTO IGNITION TEMP	343 °C
FLAMMABLE LIMITS IN AIR BY VOL%	LEL%: NA, UEL%: NA
FIRE EXTINGUISHING AGENTS AND	Dry chemical, carbon dioxide, and water spray,
SPECIAL PROCEDURES	regular foam,
UNUSUAL FIRE AND EXPLOSION	Polymer dust particles in the atmosphere are
HAZARDS	combustible and may be explosive. CO, olefinic
	and paraffinic compound, trace amount of organic
	acids, ketones, aldehydes and alcohols may be
	formed during combustion.
SPECIAL PROTECTIVE EQUIPMENT FOR	Wear an approved positive pressure self-
FIREFIGHTERS	contained breathing apparatus and fire-fighter
	turnout gear

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	Avoid generating dust. Potential dust explosion hazard. Use only non-sparking tools. Material creates dangerous slipping hazard on
	hard surfaces
ENVIRONMENTAL	No data available
PRECAUTIONS	
METHOD OF CLEANING	Pick up and retain for recycle or disposal

7. HANDLING AND STORAGE

HANDLING	Keep away from heat, sparks, open flame, or any ignition source. Use with adequate ventilation. Material can make walking hazardous, potentially causing falls and serious injury. After handling always wash hands thoroughly with soap and water.
STORAGE	Store away from excessive heat and away from strong oxidizing agents. Keep container closed to prevent contamination

8. EXPOSURE CONTROLS-PERSONAL PROTECTION

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		Vent	ilate area to prevent accumulati	on of dust and fumes.
ENGINEEERIN		TT	1 11 : .:	
OTHER CONTROL	PARAMETERS	Use	good personal hygiene practices	S
	PERSONA	L PRO	DTECTION EQUIPMENT	
EYE/ FACE	RESPIRATOR	Y	HAND PROTECTION	BODY PROTECTION
PROTECTION	PROTECTION			
Dust service	Use appropriate		Use chemical resistant	Protective clothing
goggles should be	respiratory protect	ion	gloves appropriate to	such as long sleeves or
worn to prevent	where atmosphere		conditions of use. Wear heat	a lab coat should be
mechanical injury	exceeds recommended		protective gloves and	worn
or other irritation to	limits		clothing if there is a	
eyes due to			potential for contact with	
airborne particles.			heated material.	

9. PHYSICAL AND CHEMIAL PROPERTIES

APPEARANCE	ODOUR	PHYSICAL STATE	BOILING POINT
Pellets, Spheres	Odourless	Solid	NA
MELTING / FREEZING POINT	SPECIFIC GRAVITY (AT20 ^o C) (WATER=1)	РН	SOLUBILITY IN WATER (AT 30 ^o C)
115-130 °C	0.91-0.93	NA	Insoluble
VAPOUR PRESSURE (AT 20 ^o C) IN MM Hg	VAPOUR DENSITY (AIR=1)	OTHER INFORMATIONS	VISCOSITY
NA	NA		NA

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID	Avoid contact with strong oxidizers, excessive heat, sparks or open flame
MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE	Strong oxidising agents
HAZARDOUS DECOMPOSITION PRODUCTS	Not expected to decompose under normal condition
HAZARDOUS POLYMERIZATION	Not likely

11. TOXICOLOGICAL INFORMATION

ANIMAL TOXICITY DATA					
ORAL: LD50 IN (rat) mg/kg: NA	DERMAL: LD50 (rabbit)µL/kg: NA				
IRRITANCY OF PRODUCT	Mechanical irritation to eye is possible				
REPRODUCTIVE TOX	REPRODUCTIVE TOXICITY INFORMATION				
REPRODUCTIVE TOXICITY No adverse effects					
MUTAGENICITY	No adverse effects				
EMBRYOTOXICITY	No adverse effects				
TERATOGENICITY No adverse effects					

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12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY	This material is not expected to be readily biodegradable.
EFFECT OF MATERIAL ON PLANTS OR ANIMALS	Ecotoxicity is expected to be minimal based on the low water solubility of polymers.
EFFECT OF CHEMICAL ON AQUATIC LIFE	This material is not volatile ⁢ is insoluble in water. It is not expected to be harmful to fish or bacteria.

13. DISPOSAL CONDSIDERATIONS

WASTE DISPOSAL METHODSChemical waste generators must determine whether a discarded chem classified as a hazardous waste. US EPA guidelines for the classifica determination are listed in 40CFR parts 261.3. Additionally; waste g must consult state and local hazardous waste regulations to ensure co accurate classification.	cation generators
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14. TRANSPORT INFORMATION

	PROPER	HAZARD	IDENTIFICATI	PACKIN	LABEL	REMARKS
	SHIPPIN	CLASS	ON NUMBER	G	REQUIR	
	G NAME			GROUP	ED	
DOT	NA	NA	NA	NA	NA	Not controlled under DOT
TDG	NA	NA	NA	NA	NA	Not controlled under TDG
IMDG	NA	NA	NA	NA	NA	Not controlled under IMDG
ICAO	NA	NA	NA	NA	NA	Not controlled under ICAO

15. REGULATORY INFORMATION

INDIAN REGULATION	Manufacture Import & Storage of hazardous chemical rules. Amended as on 2000			
INTERNATIONAL REGULATIONS				
TSCA INVENTORY STATUS	Х			
WHMIS CLASSIFICATION	-			
CANADIAN INVENTORY STATUS	-			
EINECS INVENTORY STATUS	Х			
AUSTRALIAN INVENTORY STATUS	Х			
JAPAN INVENTORY STATUS	Х			
X= All components are included or are otherwise exempt from inclusion on this inventory.				
Contact HPL for a	dditional information			

16. OTHER INFORMATION

DISCLAIMER	Information contained in this material safety data sheet is believed to be reliable but
	no representation, guarantee or warranties of any kind are made as to its accuracy,
	suitability for a particular application or results to be obtained from them. It is upto
	the user/ distributor to ensure that the information contained in the material safety

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	data sheet is relevant to the product manufactured/ handled or sold by him as the
	case may be. HPL makes no warranties, expressed or implied, in respect of the
	adequacy of this document for any particular purpose.

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