

LLDPE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUBSTANCE OR PRODUCT 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	091-3224-274384 / 274400
EMERGENCY TELEPHONE NUMBER	091-3224-275916

2. COMPOSTION AND INFORMATION ON INGREDIENTS

CHEMICAL NAME	CONTENT	CAS NUMBER	EXPOSURE LIMITS IN AIR		AIR	
	(Normal)*		ACGIH	ACGIH	IDLH	
			TLV-TWA	TLV-STEL		
Linear low density Polyethylene	99.25 wt%	25895-47-0	10 mg/m ³	NA	NA	
Proprietary Additives	<= 0.75 wt%	Mixture				
* For different grade o	* For different grade of LLDPE, minor changes may be there.					

3. HAZARD CLASSIFICATION

EMERGENCY OVERVIEW		commun	This material is not hazardous by OHSA hazard communication definition. Dust may form explosive mixtures with air. At process Temperature irritating fumes may be produced.					
			POTE	NTIAL HI	EALTH HA			may be produced.
	EY	Έ	SKIN		HALATIO		INGESTIO N	OTHERS
ACUTE	Mecha irritatio possib	on is	Molten polymer may cause thermal burns	proce vapo sore nose coug Expo conce caus irrita mecl	lation of ess fumes a ours may can ness in the and throat a hing. osure to high of dust ma e slight tion by nanical action	and h	Ingestion not a likely route of exposure	
CHRONIC		No known chronic health effects			CDECIAL			
NFPA HAZ SIGNAL HAZCHEMC	S	H	0	FLAMMABILITY RE		TLAMMABILITY REACTIVITY 1 0		SPECIAL

4. FIRST AID MEASURES

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1



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

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 PRECAUTIONS	No data available
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

VENTILATION AND	Ventilate area to prevent accumulation of dust and fumes.
ENGINEEERING CONTROL	
OTHER CONTROL PARAMETERS	Use good personal hygiene practices.
PERSONA	L PROTECTION EQUIPMENT

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EYE/ FACE	RESPIRATORY	HAND PROTECTION	BODY PROTECTION
PROTECTION	PROTECTION		
Dust service	Use appropriate	Use chemical resistant	Protective clothing
goggles should be	respiratory protection	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°C) (WATER=1)	PH	SOLUBILITY IN WATER (AT 30°C)
115-130 °C	0.91-0.93	NA	Insoluble
VAPOUR PRESSURE (AT 20°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	Strong oxidising agents
IS INCOMPATIBLE	
HAZARDOUS DECOMPOSITION	Not expected to decompose under normal condition
PRODUCTS	
HAZARDOUS POLYMERIZATION	Not likely

11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL STABILITY	This material is not expected to be readily		
	biodegradable.		
EFFECT OF MATERIAL ON PLANTS OR	Ecotoxicity is expected to be minimal based on		
ANIMALS	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		

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13. DISPOSAL CONDSIDERATIONS

WASTE	Chemical waste generators must determine whether a discarded chemical is
DISPOSAL	classified as a hazardous waste. US EPA guidelines for the classification
METHODS	determination are listed in 40CFR parts 261.3. Additionally; waste generators
	must consult state and local hazardous waste regulations to ensure complete and
	accurate classification.

14. TRANSPORT INFORMATION

	PROPER SHIPPIN	HAZARD CLASS	IDENTIFICATI ON NUMBER	PACKIN G	LABEL REQUIR	REMARKS
	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		
INTERNATION	AL REGULATIONS		
TSCA INVENTORY STATUS	X		
WHMIS CLASSIFICATION	-		
CANADIAN INVENTORY STATUS	•		
EINECS INVENTORY STATUS	X		
AUSTRALIAN INVENTORY STATUS	X		
JAPAN INVENTORY STATUS	X		
X= All components are included or are other	erwise exempt from inclusion on this inventory		

X= All components are included or are otherwise exempt from inclusion on this inventory.

Contact HPL for additional 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 data sheet is relevant to the product manufactured/ handled or sold by him as the
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