

MATERIAL SAFETY DATA SHEET (MSDS)

HDPE

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUBSTANCE OR PREPATION TRADE NAME	Halene H
CHEMICAL CLASSIFICATION	Synthetic polymer
COMPANY/ UNDERTAKING NAME AND	Haldia Petrochemicals Limited,
ADDRESS	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		N AIR
	(Normal)*		ACGIH	ACGIH	IDLH
			TLV-TWA	TLV-STEL	
High density	99.25 wt%	25087-34-7 /	15 mg/m^3	NA	NA
Polyethylene		25896-47-0			
Proprietary additives <= 0.75 wt%					
* For different grade of HDPE, minor changes may be there.					

3. HAZARD CLASSIFICATION

naterial is not hazardous by OHSA hazardnunication definition. Dust may formsive mixtures with air. At processerature irritating fumes may be produced.HAZARDSTONINGESTIONOTHERS
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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	Flush eyes thoroughly with water for several minutes and 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	390 °C
FLAMMABLE LIMITS IN AIR BY VOL%	LEL%: NA, UEL%: NA
FIRE EXTINGUISHING AGENTS AND	Dry chemical, carbon dioxide, and water spray,
SPECIAL PROCEDURES	chemical 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	Keep container dry. Store away from excessive heat and away from strong oxidizing agents. Keep container closed to avoid contamination.

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8. EXPOSURE CONTROLS-PERSONAL PROTECTION

VENTILATION AND		Vent	ilate area to prevent accumulati	on of dust and fumes	
ENGINEEERING CONTROL					
OTHER CONTROL	PARAMETERS	Use	Use good personal hygiene practices.		
PERSONAL PR			OTECTION EQUIPMENT		
EYE/ FACE	RESPIRATOR	Y	HAND PROTECTION	BODY PROTECTION	
PROTECTION	PROTECTION	I			
Wear appropriate	Use appropriate		Use chemical resistant	Protective clothing	
protective	respiratory protecti	on	gloves appropriate to	such as long sleeves or	
eyeglasses or	where atmosphere		conditions of use. Wear heat	a lab coat should be	
chemical safety	exceeds recommen	ded	protective gloves and	worn.	
goggles	exposure limits.		clothing if there is a		
			potential for contact with		
			heated material.		

9. PHYSICAL AND CHEMIAL PROPERTIES

APPEARANCE	ODOUR	PHYSICAL STATE	BOILING POINT
White pellets	Odourless	Pellets	Decomposes
MELTING /	SPECIFIC GRAVITY	PH	SOLUBILITY IN
FREEZING POINT	$(AT20^{0}C) (WATER=1)$		WATER (AT 30° C)
115-130 ⁰ C	0.94-0.958	NA	Insoluble
VAPOUR PRESSURE	VAPOUR DENSITY	OTHER	VISCOSITY
(AT 20°C) IN MM Hg	(AIR=1)	INFORMATIONS	
NA	NA		NA

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID	Incompatible materials, dust generation, strong oxidants, excessive heat, spark or open flame.
MATERIALS WITH WHICH SUBSTANCE	Materials may be softened by some hydrocarbons.
IS INCOMPATIBLE	Reacts with fluorine gas.
HAZARDOUS DECOMPOSITION	Not expected to decompose under normal condition
PRODUCTS	
HAZARDOUS POLYMERIZATION	Will not occur

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 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	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	HAZARD	IDENTIFICATION	PACKIN	LABEL	REMARKS
	SHIPPIN	CLASS	NUMBER	G	REQUIRED	
	G NAME			GROUP		
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			
INTERNATIONA	L 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 additional information				

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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
	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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