SAFETY DATA SHEET



Lupolen 2427H

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1. PRODUCT AND COMPANY IDENTIFICATION

Trade name CAS Number: Chemical characterization Chemical name Synonyms	: : : : : : : : : : : : : : : : : : : :	Lupolen 2427H 9002-88-4 Polyethylene Homopolymer Polyethylene Ethene, homopolymer, PE			
Identified uses	:	Manufacture of plastic articles by injection molding, extrusion or other conversion process.			
Prohibited uses	:	FDA Class III medical devices; European class III medical devices; Health Canada class IV Medical Devices; Applications involving permanent implantation into the body; Life-sustaining medical applications			
<u>Company Address</u> Basell Asia Pacific Ltd. 32/F, Dorset House Taikoo Place 979 King's Road		Company Telephone Product Safety +852-2585-0120 Switchboard +852-2577-3855 product.safety@lyb.com			

E-mail address : product.safety@lyb.com Responsible/issuing person

2. HAZARDS IDENTIFICATION

Quarry Bay, Hong Kong

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards which do not result in classification

May form explosible dust-air mixture if small particles are generated during further processing, handling, or by other means.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components



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Chemical name	CAS-No.	Concentration (% w/w)
Polyethylene	9002-88-4	> 99.5

4. FIRST AID MEASURES		
General advice	:	Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid.
If inhaled	:	Remove person to fresh air. If signs/symptoms continue, get medical attention. In case of excessive inhalation of fumes that may be generat- ed during heating of this material, move the person to fresh air. Obtain medical attention. Keep person warm, if necessary give Cardio-Pulmonary Re- suscitation (CPR)
In case of skin contact	:	If molten material contacts the skin, immediately flush with large amounts of water to cool the affected tissue and poly- mer. Do not attempt to peel polymer from skin as this will remove the skin. Obtain immediate emergency medical attention if burn is deep or extensive.
In case of eye contact	:	Flush eyes thoroughly with water for several minutes and seek medical attention if discomfort persists. In case of eye contact with molten polymer: Continuously flush eye(s) with cool running water for at least 15 minutes. Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s). Immediately seek medical attention.
If swallowed	:	Adverse health effects due to ingestion are not anticipated.
Most important symptoms and effects, both acute and delayed	:	Inhalation of process fumes and vapors may cause soreness in the nose and throat and coughing. Dust contact with the eyes can lead to mechanical irritation. Molten polymer may cause thermal burns.
Notes to physician	:	Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media	:	SMALL FIRE: Use dry chemical, CO2, or water spray.
		LARGE FIRES:

4. FIRST AID MEASURES



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	Unsuita	ble extinguishing		Use water spray h None known.	nose nozzles from a safe location.
	media	Die extinguishing	•	None known.	
	Specific fighting	hazards during fire	:	In case of fire haz produced such as	neat and sources of ignition. ardous decomposition products may be : , carbon dioxide and unburned hydrocar-
Specific extinguishing methods		:	ditions. Calorific Value: 80 Fight fire from saf zles. Heat from fire ma flammable vapors Move containers f Evacuate immedia tainer pressure re Always stay away Do not attempt to fire.	culate solid, will decompose under fire con- 000 - 11000 kcal/kg e distance with hose lines or monitor noz- y melt, decompose polymer, and generate from fire area if it can be done without risk. ately in the event of opening of storage con- lief devices or discoloration of container. from tanks engulfed in fire. get on top of storage containers involved in ainers with large volumes of water even	
	Special for fire-f	protective equipment ighters	:		ositive pressure self-contained breathing fighter protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Equip responders with proper protection. Creates dangerous slipping hazard on any hard smooth sur- face. Equip emergency responders with proper personal protective equipment (PPE) Avoid generating dust. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Potential combustible dust hazard. Polymer particles create slipping hazard on hard smooth sur- faces.
Environmental precautions :	Do not flush into surface water or sanitary sewer system.
Methods and materials for : containment and cleaning up	On land, sweep/shovel into suitable disposal containers or vacuum using equipment which avoids ignition risk. On water, material is insoluble; collect and contain as any solid. All recovered material should be packaged, labeled, trans-
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		pli	cable laws and	ed of or reclaimed in conformance with ap- regulations and in conformance with good ces. Reclaim where possible.
7. HAND	LING AND STORAGE			
Adv	rice on safe handling	If d dli tra Av Us du Av Pr ha St en sid Ec gr Mi Sh Co bu Af wa Sc Du	ng, or by other in ations in air. yoid dust accum se dust collection se dust collection roid generating esence of an ign zard. atic discharge (se vironments may on ectrostatic charge quipment handling ounded (earther etal containers i ould be ground etal containers i ould be ground etal containers i ould be ground telectrical equip des and regulat stible dusts. ter handling, alw ater. hen bringing the ay develop may ction 10. efer to NFPA 65 ust Explosions fi	all particles during further processing, han- means, may form combustible dust concen- ulation in enclosed space. In systems designed per NFPA 654 to avoid dust; fine dust suspended in air and in the hition source is a potential dust explosion (spark), or other ignition sources, in high dust y ignite the dust and result in a dust explo- ge may build during conveying or handling. Ing polymer should be conductive and d) and bonded. Involved in the transfer of this material
Cor	nditions for safe storage	Us an sh St ing Ke	d handling. Pro ould be used to ore away from e g agents. eep container cle	tion. eeping practices during storage, transferring cess enclosures and adequate ventilation avoid excessive dust accumulation. excessive heat and away from strong oxidiz- osed to prevent contamination. prevent the build up of electrostatic charge.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis		
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		(Form of exposure)	ters / Permissible concentration	
Non-specified (inert or nui- sance) dust	Not Assig		10 mg/m3 (inhalable)	US (ACGIH
,		TWA	3 mg/m3 (respirable)	US (ACGIH
Engineering measures			ns in NFPA 654 (as ar ed to handle this produ	
Personal protective equipm Respiratory protection	wheneve criteria. V achieve f local exh Equipme material s (inerting) Ensure th dust colle signed in work area	r feasible to maint Vhen such controls ull conformance, c aust ventilation sh nt and vessels har should be designe or safely vent dus hat dust-handling s ectors, vessels, an a manner to preve a (i.e., there is no l	ndling combustible dua d to either prevent dua t explosions per NFP, systems (such as exha d processing equipme ent the escape of dus leakage from the equi cal exhaust ventilation	acceptable sufficient to crols such as st from this st explosions A 654 aust ducts, ent) are de- t into the pment).
	mended When wo limit they Use appr exceeds Where w	exposure limits. orkers are facing co must use appropri opriate respiratory recommended lim orkers could be ex e exposure limit th	p airborne levels belo oncentrations above t iate certified respirato protection where atm its. sposed to dust concer ey must use appropria	he exposure irs. nosphere itrations
Hand protection				
Remarks		ves that provide th for contact with he	nermal protection whe eated material.	re there is a
Eye protection	injury or o		d be worn to prevent yes due to airborne pa lling this product.	
Skin and body protection	: Wear sui	table protective clo	othing.	



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			Wash hands befo facilities.	al hygiene practices. re eating, drinking, smoking, or using toilet nated clothing and wash before reuse.
9. PHYSI	CAL AND CHEMICAL P	ROF	PERTIES	
Арре	earance	:	pellets	
Colo	r	:	Translucent to w	hite
Odo	r	:	Slight.	
Odo	r Threshold	:	No value availab	le.
pН		:	Not applicable.	
Melt	ing point/range	:	50 - 170 °C	
Boili	ng point/boiling range	:	Not applicable.	
Flas	h point	:	No Data Availabl	e.
Evap	poration rate	:	Not applicable.	
Flam	nmability (solid, gas)	:	May form combu	stible dust concentrations in air.
			Polymer will burr	but does not easily ignite.
Self-	ignition	:	> 300 °C	
	er explosion limit / Upper mability limit	:	Not applicable.	
	er explosion limit / Lower mability limit	:		plosive concentration (MEC) for polymer dust to particle size distribution.
Vapo	or pressure	:	Not applicable.	
Rela	tive vapor density	:	Not applicable.	
Den	sity	:	< 1 g/cm3	
	bility(ies) Vater solubility	:	Insoluble.	

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	Partitio octano	n coefficient: n- I/water	:	No Data Availabl	e.
	Decom	position temperature	:		e, olefinic and paraffinic compounds, trace nic acids, ketones, aldehydes and alcohols
	Viscosi Visc	ty cosity, dynamic	:	Not applicable.	
	Explos	ive properties	:	No Data Availabl	e.
	Oxidizi	ng properties	:	Not considered a	n oxidizing agent.
10. \$	10. STABILITY AND REACTIVITY		,		
	Reactiv	vity	:	No known reactiv	vity hazards.
	Chemi	cal stability	:	Stable under nor	mal conditions.
	Possibi tions	ility of hazardous reac-	:	None known.	
	Conditi	ons to avoid	:	Avoid contact wit open flame.	h strong oxidizers, excessive heat, sparks or
	Incomp	oatible materials	:	Material may be	softened by some hydrocarbons.
	Hazard produc	lous decomposition ts	:	Not expected to	decompose under normal conditions.
11.	τοχιςς	LOGICAL INFORMAT	ION		
	Acute	toxicity			
	Compo	onents:			

Polyethylene:

Acute oral toxicity	:	Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity	:	Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	Assessment: The substance or mixture has no acute dermal toxicity



rsion)	Revision Date: 06/06/2023	SDS Number: BE15489	Date of last issue: - Date of first issue: 06/06/2023			
Skin	corrosion/irritation					
Comp	oonents:					
	thylene:					
Resul	-	: No skin irrit	ation			
Serious eye damage/eye irritation						
<u>Comp</u>	oonents:					
Polye	thylene:					
Rema	arks	: Mechanical	irritation is possible.			
Resp	iratory or skin sensit	ization				
Comp	oonents:					
Polye	thylene:					
Resul	t	: Does not ca	ause skin sensitization.			
		: Does not ca	ause respiratory sensitization.			
Germ	cell mutagenicity					
<u>Comp</u>	oonents:					
Polye	ethylene:					
	cell mutagenicity - ssment	: Based on a	vailable data, the classification criteria are not me			
Carci	nogenicity					
<u>Comp</u>	oonents:					
-	thylene: nogenicity - Assess-	: No evidence	e of carcinogenicity in animal studies.			
Repro	oductive toxicity					
<u>Comp</u>	ponents:					
Polye	ethylene:					
	oductive toxicity - As-	: Based on a	vailable data, the classification criteria are not me			



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STOT	Γ - single exposure		
Com	ponents:		
Polye	ethylene:		
Asses	ssment		e or mixture is not classified as specific target , single exposure.
STOT	F - repeated exposure	9	
Com	ponents:		
Polye	ethylene:		
Asses	ssment		e or mixture is not classified as specific target , repeated exposure.
Aspir	ration toxicity		
Com	ponents:		
Polye	ethylene:		
No as	spiration toxicity classi	fication	
12. ECOL	OGICAL INFORMATI	ON	
Ecoto	oxicity		

Components:

Polyethylene	:
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Toxicity to daphnia and other : Remarks: No toxicity at the limit of solubility. aquatic invertebrates	Toxicity to fish	:	Remarks: Aquatic toxicity is unlikely due to low solubility.
		:	Remarks: No toxicity at the limit of solubility.
I oxicity to algae/aquatic : Remarks: No toxicity at the limit of solubility. plants	Toxicity to algae/aquatic plants	:	Remarks: No toxicity at the limit of solubility.
Toxicity to fish (Chronic tox- : Remarks: No toxicity at the limit of solubility. icity)		:	Remarks: No toxicity at the limit of solubility.
Toxicity to daphnia and other : Remarks: No toxicity at the limit of solubility. aquatic invertebrates (Chron- ic toxicity)	aquatic invertebrates (Chron-	:	Remarks: No toxicity at the limit of solubility.
Toxicity to microorganisms : Remarks: No toxicity at the limit of solubility.	Toxicity to microorganisms	:	Remarks: No toxicity at the limit of solubility.



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Pers	istence and degradabi	lity		
<u>Com</u>	ponents:			
-	Polyethylene: Biodegradability :		Remarks: The po	lymer is too large to be bioavailable.
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
-	ethylene: ccumulation	:	Remarks: This m	aterial is not expected to bioaccumulate.
Mobi	lity in soil			
Com	ponents:			
Poly Mobi	ethylene: lity	:	Remarks: no data	a available
Other adverse effects				
	<u>uct:</u> lts of PBT and vPvB ssment	:	Not applicable	
Addit matic	ional ecological infor- on	:		on this product. However, birds, fish and eat pellets which may obstruct their intesti-
Com	ponents:			
	ethylene:			
-	onmental fate and	:	This material is n	ot volatile and insoluble in water.
Addit matic	ional ecological infor- on	:	Ecotoxicity is exp solubility of polym	ected to be minimal based on the low water ners.
13. DISPO	DSAL CONSIDERATIO	NS		
Disp	osal methods			
-	e from residues	:	ported and dispose plicable laws and	terial should be packaged, labeled, trans- sed of or reclaimed in conformance with ap- regulations and in conformance with good ices. Reclaim where possible. e.



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14. TRANSPORT INFORMATION

Not regulated for transport

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Global Inventory Status

The ingredients of this product are compliant with the following chemical inventory requirements or exemptions.

Country/Region	Inventory	Status Description
Australia	AICS	Listed
Canada	DSL	Listed
China	IECSC	Listed
Europe	REACH	See Compliance Statement*
Japan	ENCS	Listed
Korea	K REACH	Pre-registration period *
New Zealand	NZIoC	Listed
Philippines	PICCS	Listed
United Kingdom	UK REACH	See Compliance Statement*
United States of America	TSCA	Listed
Taiwan	TCSCA	Listed
Turkey	KKDIK	Pre-registration period *

* If the product has been purchased domestically from the notifying/registering legal entity of the LyondellBasell group of companies. We confirm that all substances (in this preparation) have been registered in accordance with the deadlines set forth in the applicable regulation. During the "Pre-registration period", we confirm that all substances in this preparation have been pre-registered or, where required under the regulation, registered, and that we have the intention to proceed with their registration in accordance with the deadlines set forth in the deadlines set forth in the regulation. For more information, please contact reach@lyondellbasell.com.

† For more information on the status of this material, please contact chemical control at global.chemical.control@lyondellbasell.com.

16. OTHER INFORMATION

Full text of other abbreviations

US (ACGIH) : US (ACGIH)



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US (ACGIH) / TWA : Time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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