

Moplen RP248U

Version	Revision Date:	SDS Number:	Date of last issue: 04/02/2020
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	: Moplen RP248U
Synonyms	: Ethylene-Propylene copolymer, 1-Propene-Ethylene-
	Copolymer
Substance name	: 1-Propene, Polymer with Ethene
Substance No.	: 9010-79-1
Chemical characterization	: Polypropylene copolymer

1.2 Relevant identified uses of the substance or mixture and uses advised against

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

1.3 Details of the supplier of the safety data sheet

Company Basell Sales & Marketing Company B.V. Delftseplein 27E 3013 AA Rotterdam Netherlands	Registration number NA	Telephone 31 (0) 10 275 55 00
E-mail address : product.sa Responsible/issuing person	lfety@lyb.com	
1.4 Emergency telephone number		

Basell Sales & Marketing Company B.V.

+32 3 575 1235

Poison Center:

Gesundheid Österreich GMBH AT: +43 1 406 43 43 24 hours all days

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.



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2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
1-Propene, Polymer with Ethene	9010-79-1		> 99.5
For some stice of all has istices as			<u> </u>

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of 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 generated during heating of this material, move the person to fresh air. Obtain medical attention. Keep person warm, if necessary give Cardio-Pulmonary Resuscitation (CPR)

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In cas	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 de or extensive.	
In cas	In case of eye contact		Flush eyes thorou	ughly with water for several minutes and seek if discomfort persists.
			In case of eye contact with molten polymer: Continuously flush eye(s) with cool running water for at leas 15 minutes. Beyond flushing, DO NOT attempt to remove the material adherent to the eye(s). Immediately seek medical attention.	
lf swa	llowed	:	Adverse health e	ffects due to ingestion are not anticipated.
4.2 Most i	mportant symptoms ar	nd e	effects, both acute	e and delayed
	Symptoms		Inhalation of proc	ess fumes and vapors may cause soreness nroat and coughing.
Risks	Risks			the eyes can lead to mechanical irritation. nay cause thermal burns.
4.3 Indica	tion of any immediate	me	dical attention and	d special treatment needed
Treat	•	:	Treatment of ove	rexposure should be directed at the control of e clinical condition of the patient.
SECTION	1 5: Firefighting meas	sur	es	
5.1 Extinc	uishing media			
-	ble extinguishing media	:		, CO2, or water spray.
			LARGE FIRES: Use water spray	hose nozzles from a safe location.
	Unsuitable extinguishing media		None known.	
5.2 Specia	al hazards arising from	the	e substance or mi	xture
Speci	Specific hazards during fire fighting		Keep away from In case of fire haz produced such as	heat and sources of ignition. zardous decomposition products may be

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5.3 Advice for firefighters Special protective equipment for fire-fighters			Wear approved positive pressure self-contained breathing apparatus and firefighter protective clothing.	
Further information		:	ditions. Calorific Value: 80 Fight fire from saf zles. Heat from fire may 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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	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.
6.2 Environmental precautions Environmental precautions	:	Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for c	ontainment and cleaning up
Methods for 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, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.



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6.4 Reference to other sections

For disposal considerations see section 13., For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling :	Material is in a pellet form. If converted to small particles during further processing, han- dling, or by other means, may form combustible dust concen- trations in air. Avoid dust accumulation in enclosed space. Avoid generating dust; fine dust suspended in air and in the presence of an ignition source is a potential dust explosion hazard. Static discharge (spark), or other ignition sources, in high dust environments may ignite the dust and result in a dust explo- sion Electrostatic charge may build during conveying or handling. Equipment handling polymer should be conductive and grounded (earthed) and bonded. Metal containers involved in the transfer of this material should be grounded and bonded. All electrical equipment should conform to applicable electric codes and regulatory requirements for areas handling com- bustible dusts. After handling, always wash hands thoroughly with soap and water. When bringing the material to processing temperatures vapors may develop may condense in the exhaust ventilation. See section 10.
Hygiene measures :	Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be per- formed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Take off contaminated clothing and wash before reuse.
7.2 Conditions for safe storage, inc	luding any incompatibilities
Requirements for storage : areas and containers	Store in a dry location. Use good housekeeping practices during storage, transferring and handling. Process enclosures and adequate ventilation should be used to avoid excessive dust accumulation. Store away from excessive heat and away from strong oxidizing agents. Keep container closed to pre- vent contamination. Take measures to prevent the build up of electrostatic charge.

7.3 Specific end use(s)



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Specific use(s) : See Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Non-specified (in- ert or nuisance) dust	Not As- signed	TWA	10 mg/m3 (inhalable)	US (ACGIH)
		TWA	3 mg/m3 (respirable)	US (ACGIH)

8.2 Exposure controls

Engineering measures

Follow the recommendations in international standard NFPA 654 (as amended and adopted) for equipment used to handle this product.

Engineering controls, i.e. enclosed systems, should be used whenever feasible to maintain exposures below acceptable criteria. When such controls are not feasible, or sufficient to achieve full conformance, other engineering controls such as local exhaust ventilation should be used. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Personal protective equipment

Eye protection	:	Dust service goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles which may result from handling this product.
Hand protection		
Remarks	:	Wear gloves that provide thermal protection where there is a potential for contact with heated material.
Skin and body protection	:	Wear suitable protective clothing.
Respiratory protection	:	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recom- mended exposure limits. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use appropriate respiratory protection where atmosphere exceeds recommended limits. Where workers could be exposed to dust concentrations above the exposure limit they must use appropriate certified respirators.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	pellets
Color	:	Translucent to white
Odor	:	Slight.
Odor Threshold	:	No value available.
Melting point/range	:	50 - 170 °C
Boiling point/boiling range	:	Not applicable.
Flammability	:	May form combustible dust concentrations in air.
		Polymer will burn but does not easily ignite.
Upper explosion limit / Upper flammability limit	:	Not applicable.
Lower explosion limit / Lower flammability limit	:	The minimum explosive concentration (MEC) for polymer dust varies according to particle size distribution.
Flash point	:	No Data Available.
Decomposition temperature	:	Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed.
рН	:	Not applicable.
Viscosity Viscosity, dynamic	:	Not applicable.
Solubility(ies) Water solubility	:	Insoluble.
Partition coefficient: n- octanol/water	:	No Data Available.
Vapor pressure	:	Not applicable.
Density	:	< 1 g/cm3
Relative vapor density	:	Not applicable.
9.2 Other information		
Explosives	:	No Data Available.
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Oxidi	zing properties	: Not	considered	an oxidizing agent.
Self-i	gnition	: >3	: > 300 °C	
Evap	oration rate	: Not applicable.		
SECTION	N 10: Stability and I	eactivity		
10.2 Cher	ctivity nown reactivity hazard nical stability e under normal conditi			
	sibility of hazardous in Irdous reactions		ne known.	
	ditions to avoid litions to avoid		bid contact v en flame.	vith strong oxidizers, excessive heat, sparks or
	mpatible materials rials to avoid	: Ma	terial may b	e softened by some hydrocarbons.
	ardous decompositio	-		ns.
SECTION	N 11: Toxicological	informati	on	
11.1 Infor	mation on hazard cla	sses as de	fined in Re	gulation (EC) No 1272/2008
Acut	e toxicity			
Com	ponents:			
1-Pro	opene, Polymer with	Ethene:		
Acute	e oral toxicity	: Ass icity		ne substance or mixture has no acute oral tox-
Acute	e inhalation toxicity		essment: Th toxicity	e substance or mixture has no acute inhala-
Acute	e dermal toxicity	: Ass toxic		e substance or mixture has no acute dermal

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Skin	corrosion/irritation		
<u>Com</u>	oonents:		
1-Pro	pene, Polymer with	Ethene:	
Resul	t	: No skin irritatio	on
Serio	us eye damage/eye	irritation	
<u>Com</u>	oonents:		
1-Pro	pene, Polymer with	Ethene:	
Rema	arks	: Mechanical irr	itation is possible.
Resp	iratory or skin sens	itization	
Com	oonents:		
1-Pro	pene, Polymer with	Ethene:	
Resul	t	: Did not cause	sensitization on laboratory animals.
Germ	cell mutagenicity		
<u>Comp</u>	oonents:		
			lable data, the classification criteria are not me
Carci	nogenicity		
<u>Comp</u>	oonents:		
	pene, Polymer with		
Carcii ment	nogenicity - Assess-	: No evidence o	f carcinogenicity in animal studies.
Repro	oductive toxicity		
Com	oonents:		
1-Pro	pene, Polymer with	Ethene:	
Repro sessn	oductive toxicity - As- nent	: Based on avai	lable data, the classification criteria are not me
STOT	-single exposure		
<u>Com</u>	oonents:		
1-Pro	pene, Polymer with	Ethene:	
Asses	ssment	: The substance	e or mixture is not classified as specific target

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		organ toxicant	, single exposure.
STOT	F-repeated exposure)	
Com	ponents:		
1-Pro	pene, Polymer with	Ethene:	
Asses	ssment		e or mixture is not classified as specific target , repeated exposure.
Aspir	ration toxicity		
Com	ponents:		
	ppene, Polymer with spiration toxicity class		
1.2 Infor	mation on other haz	ards	
Endo	crine disrupting pro	operties	
Prod	uct:		
Asses	ssment	ered to have e REACH Article	e/mixture does not contain components consid- indocrine disrupting properties according to a 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at or higher.

12.1 Toxicity

Components:

1-Propene,	Polymer	with	Ethene:
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aquatic invertebrates (Chron-		
Toxicity to daphnia and other	:	Remarks: No toxicity at the limit of solubility.
Toxicity to fish (Chronic tox- icity)	:	Remarks: No toxicity at the limit of solubility.
Toxicity to microorganisms	:	Remarks: No toxicity at the limit of solubility.
Toxicity to algae/aquatic plants	:	Remarks: No toxicity at the limit of solubility.
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No toxicity at the limit of solubility.
Toxicity to fish	:	Remarks: Aquatic toxicity is unlikely due to low solubility.



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ic tox	icity)		
Ecoto	oxicology Assessme	ent	
	aquatic toxicity	: Not classifie	d
Chror	nic aquatic toxicity	: Not classifie	d
Toxic	oxicity Data on Soil : Not expected to adsorb on soil.		
12.2 Persi	istence and degrada	bility	
<u>Com</u>	ponents:		
1-Pro	pene, Polymer with	Ethene:	
Biode	egradability	: Remarks: Th	ne polymer is too large to be bioavailable.
12.3 Bioa	ccumulative potentia	al	
Com	ponents:		
1-Pro	pene, Polymer with	Ethene:	
Bioac	cumulation	: Remarks: Th	nis material is not expected to bioaccumulate.
2.4 Mobi	lity in soil		
Com	ponents:		
1-Pro	pene, Polymer with	Ethene:	
Mobil	ity	: Remarks: no	o data available
12.5 Resu	Its of PBT and vPvB	assessment	
Prod	uct:		
Asses	ssment	to be either	nce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or ent and very bioaccumulative (vPvB) at levels of ner.
12.6 Endo	ocrine disrupting pro	perties	
Prod	uct:		
Asses	ssment	ered to have REACH Artic	ce/mixture does not contain components consid e endocrine disrupting properties according to cle 57(f) or Commission Delegated regulation 100 or Commission Regulation (EU) 2018/605 a % or higher.
12.7 Othe	r adverse effects		
	uct:		

Product:

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	Additio mation	nal ecological infor-	:		on this product. However, birds, fish and eat pellets which may obstruct their intesti-
	Compo	onents:			
	1-Propene, Polymer with Ethene:		e:		
	Enviror pathwa	nmental fate and lys	:	This material is no	ot volatile and insoluble in water.
	Additio mation	nal ecological infor-	:	Ecotoxicity is exp solubility of polym	ected to be minimal based on the low water lers.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible. Recycle if possible.

SECTION 14: Transport information

14.1 UN number

Not regulated for transport

14.2 UN proper shipping name

Not regulated for transport

14.3 Transport hazard class(es)

Not regulated for transport

14.4 Packing group

Not regulated for transport

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

No special precautions required.

14.7 Maritime transport in bulk according to IMO instruments



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Not applicable

SECTION 15: Regulatory information

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

Other international regulations

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.

15.2 Chemical safety assessment

No information available.



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SECTION 16: Other information

Full text of H-Statements

Full text of other abbreviations

US (ACGIH)	:	US (ACGIH)
US (ACGIH) / TWA	:	Time weighted average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

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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