👭 UltiMaker

PP

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations SDS ID: UM00010 Issue date: 12/6/2023 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form Name Trade name CAS-No.	: Substance : EthylenePropylenecopolymers : PP : 9010-79-1
1.2. Recommended use and restriction	s on use
Use of the substance/mixture Restrictions on use	 3D-Printer filament This product must not be used in applications other than those identified above, without first seeking advice of the supplier
1.3. Supplier	
US Responsible Party MakerBot Industries, LLC c/o UltiMaker 55 Water St, Fl 51, New York, NY 10041 Tel +1 347 334 6800 product-compliance@ultimaker.com 1.4. Emergency telephone number	Supplier UltiMaker Watermolenweg 2 Geldermalsen, 4191 PN - The Netherlands T +31 (0) 88 383 4000 (9 AM - 5 PM CET) Product-Compliance@Ultimaker.com
Emergency number	: +1 347 334 6800

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

Other hazards not contributing to the	:	Risk of thermal burns on contact with molten product.
classification		

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2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Name CAS-No. : EthylenePropylenecopolymers : 9010-79-1

		Conc. (% w/w)
EthylenePropylenecopolymers	CAS-No.: 9010-79-1	

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	 If you feel unwell, seek medical advice (show the label where possible). Remove victim to fresh air and keep at rest in a position comfortable for breathing. Wash skin with plenty of water and soap. Burns caused by molten material must be treated clinically. Take off contaminated clothing. In case of contact with molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove molten product from skin because skin will tear easily.
First-aid measures after eye contact First-aid measures after ingestion	 Rinse eyes with water as a precaution. In the event of contact with molten product: Immediately flush eyes thoroughly with water for at least 15 minutes. Get immediate medical advice/attention. Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effe	ects (acute and delayed)
Symptoms/effects Symptoms/effects after skin contact	No acute and delayed symptoms and effects are observed.Risk of thermal burns on contact with molten product.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measur	es			
5.1. Suitable (and unsuitable) exting	juishing media			

Suitable extinguishing media

: Use extinguishing media appropriate for surrounding fire: Water spray, Dry powder, Foam, Carbon dioxide.

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Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.	
5.2. Specific hazards arising from the che	emical	
Explosion hazard	: Material can accumulate some static charge during transfer. Prevent build-up of electrostatic charges (e.g, by grounding).	
Hazardous decomposition products in case of fire	: Under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon monoxide, Hydrocarbons, Aldehydes.	
5.3. Special protective equipment and pr	recautions for fire-fighters	
Precautionary measures fire Protection during firefighting	 Do not allow run-off from fire-fighting to enter drains or water courses. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 	

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel	
Protective equipment	: Wear recommended personal protective equipment. Refer to section 8.2. Remove contaminated clothing and shoes.
Emergency procedures	: None in particular. In molten state: Do not breathe vapors. Ventilate spillage area. Avoid contact with skin, eyes and clothing.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up		
Methods for cleaning up	: Sweep up and put in a closed container for disposal. If melted: allow liquid to solidify before taking it up.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		

No additional information available

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. In molten state: Do not breathe vapors. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

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Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, including	g any incompatibilities
Storage conditions	: To guarantee the quality and properties of the product: Store in a well-ventilated place. Store in original container. Keep container tightly closed to avoid moisture absorption and contamination.
Incompatible materials	: Strong oxidizing agents.
Storage temperature	: -4 – 86 °F (Relative air humidity: <50%)

: Keep away from heat, sparks and flames. Keep out of direct sunlight.

Ventilation conditions (1 printer): Provide a good standard of general ventilation, not less

than 2 air changes per hour (assumes a room volume of: 30 m³).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Heat-ignition

EthylenePropylenecopolymers (90	10-79-1)
No additional information available	
EthylenePropylenecopolymers (90	10-79-1)
No additional information available	
8.2. Appropriate engineering contr	ols
Appropriate engineering controls	: Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit.

: Avoid release to the environment.

Environmental exposure controls

8.3. Individual protection measures/Personal protective equipment

Hand protection:						
None under normal conditions. Use insulated gloves when handling this material hot						
Type Material Permeation Thickness (mm) Penetration						
In molten state: Chemically resistant protective gloves, Heat- resistant	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.35			
Eye protection:						
None under normal use.	In molten state: Wear ey	e protection				

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Туре	Use	Characteristics	
Safety glasses with side shields	In molten state		
Skin and body protection:			
None under normal use. In molten state: Wear	suitable protective clothing		
Туре			
Long sleeved protective clothing			
Respiratory protection:			
None under normal use. In molten state: In cas	e of insufficient ventilation, wear	suitable respiratory equipment	
Device	Filter type	Condition	
Air-Purifying Respirator (APR), disposable	Type B/P2		

Thermal hazard protection:

Risk of thermal burns on contact with molten product. Hazardous vapors may be released. In molten state: Use respiratory protection/heat resistant gloves.

Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Wash hands immediately after handling the product. Take off contaminated clothing and wash before reuse.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Filament.
Color	: Natural
Odor	: Slight
Odor threshold	: No data available
рН	: No data available
Melting point	: 257 – 329 °F
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Particle size distribution	: Not applicable
Relative density	: No data available
Density	: 0.89 g/cm ³
Solubility	: Water: Insoluble
	Organic solvent:Slightly soluble
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: > 752 °F

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Decomposition temperature	: > 572 °F
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

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10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Printing process: Avoid temperature above 572°F.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon monoxide, Hydrocarbons, Acetaldehyde.

SECTION 11: Toxicological information				
11.1. Information on toxicological effects				
Acute toxicity (oral)	: Not classified			
Acute toxicity (dermal)	: Not classified			
Acute toxicity (inhalation)	: Not classified			
Skin corrosion/irritation	: Not classified			
Serious eye damage/irritation	: Not classified			
Respiratory or skin sensitization	: Not classified			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: The filament product itself (mixture) is not carcinogenic			
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IARC group	3 - Not classifiable			

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Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable
Symptoms/effects	: No acute and delayed symptoms and effects are observed.
Symptoms/effects after skin contact	: Risk of thermal burns on contact with molten product.

SECTION 12: Ecological inform	ation
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2. Persistence and degradabili	ty
EthylenePropylenecopolymers (9	9010-79-1)
Persistence and degradability	No additional information available.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Regional waste regulation Product/Packaging disposal recommendations	Dispose of in accordance with relevant local regulations.Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT TDG		IMDG	ΙΑΤΑ
14.1. UN number			
Not regulated for transport			

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DOT	TDG	IMDG	ΙΑΤΑ	
14.2. Proper Shipping Name				
Not applicable	Not applicable Not applicable Not applicable			
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

No additional information available

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15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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minimise exposure.

Abbreviations and acronyms	
CAS-No.	Chemical Abstract Service number
CAS	Chemical Abstract Service number
DOT	Department of Transport
ED	Endocrine disrupting properties
EN	European Standard
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
TDG	Transportation of Dangerous Goods

Indication of changes: Not applicable.

SDS US (GHS HazCom 2012) - RHDHV

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.