

## Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015) Issue date: 11/10/2023 Version: 1.0

## **SECTION 1: Identification**

#### 1.1. Product identifier

Product form : Substance

Name : Ethylene propylene copolymer

Trade name : PP

CAS-No. : 9010-79-1

#### 1.2. Recommended use and restrictions on use

Recommended use : 3D-Printer filament

Restrictions on use : This product must not be used in applications other than those identified above, without first

seeking advice of the supplier

### 1.3. Supplier

#### Supplier

UltiMaker

Watermolenweg 2 Geldermalsen, 4191 PN

The Netherlands

T+31 (0) 88 383 4000 (9 AM - 5 PM CET)

Product-Compliance@Ultimaker.com

### 1.4. Emergency telephone number

Emergency number : +31 (0) 88 383 4000

(during office hours: 9 AM - 5 PM CET)

## **SECTION 2: Hazard identification**

### 2.1. Classification of the substance or mixture

### Classification (GHS CA)

Not classified

## 2.2. GHS Label elements, including precautionary statements

## **GHS CA labelling**

No labelling applicable

#### 2.3. Other hazards

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

## 2.4. Unknown acute toxicity (GHS CA)

No additional information available

### **SECTION 3: Composition/information on ingredients**

## 3.1. Substances

Name : Ethylene propylene copolymer

CAS-No. : 9010-79-1 EC-No. : 618-455-4



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Name	Chemical name/Synony ms	Product identifier	Conc. (% w/w)	Classification (GHS CA)
Ethylene propylene copolymer	-	CAS-No.: 9010-79-1		Not classified

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 after inhalation

First-aid measures after skin contact

- : Remove person to fresh air and keep 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

: 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.

First-aid measures after ingestion

: Call a poison center or a doctor if you feel unwell.

First-aid measures general

: If you feel unwell, seek medical advice (show the label where possible).

#### 4.2. Most important symptoms and effects (acute and delayed)

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.

#### 4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

## **SECTION 5: Fire-fighting measures**

#### 5.1. Suitable extinguishing media

Suitable extinguishing media

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

## 5.2. Unsuitable extinguishing media

Unsuitable extinguishing media

: Do not use a solid water stream as it may scatter and spread fire.

## 5.3. Specific hazards arising from the hazardous product

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.

## 5.4. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Precautionary measures fire

: Do not allow run-off from fire-fighting to enter drains or water courses.

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#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions, Protective Equipment and Emergency Procedures : Avoid contact with skin, eyes and clothing. In molten state: Do not breathe vapours. Wear recommended personal protective equipment. Refer to section 8.2. Remove contaminated clothing and shoes. Ventilate spillage area.

### 6.2. Methods and materials 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.

#### 6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

### **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 vapours. Avoid

contact with skin, eyes and clothing. Wear personal protective equipment.

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 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.

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

Storage temperature : -20 - 30 °C (Relative air humidity: <50%)

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

No additional information available

### 8.2. Appropriate engineering controls

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. 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).

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

None under normal conditions. Use insulated gloves when handling this material hot

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Туре	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 eye protection

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

#### Type

Long sleeved protective clothing

#### Respiratory protection:

None under normal use. In molten state: In case of insufficient ventilation, wear suitable respiratory equipment

#### Thermal hazard protection:

Risk of thermal burns on contact with molten product. Hazardous vapours may be released. In molten state: Wear 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.
Colour : Natural
Odour : Slight

Odour threshold No data available No data available рΗ Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : No data available Melting point : 125 - 165 °C Freezing point Not applicable Boiling point No data available Flash point Not applicable : > 400 °C Auto-ignition temperature : > 300 °C Decomposition temperature : Non flammable Flammability (solid, gas) Vapour pressure : No data available Relative vapour density at 20°C : No data available Relative density : No data available Density : 0.89 g/cm<sup>3</sup>

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Solubility : Water: Insoluble

Organic solvent: Slightly soluble

Partition coefficient n-octanol/water (Log Pow) : No data available Viscosity, kinematic : Not applicable Explosive limits : Not applicable Particle size distribution : Not applicable

#### 9.2. Other information

No additional information available

## **SECTION 10: Stability and reactivity**

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

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.

Conditions to avoid : None under recommended storage and handling conditions (see section 7). Printing process:

Avoid temperature above 300°C.

Incompatible materials : Strong oxidizing agents.

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.

Hardening time: : No additional information available

#### **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 Not classified Reproductive toxicity Not classified STOT-single exposure Not classified STOT-repeated exposure Not classified Aspiration hazard Not classified

#### Ethylene propylene copolymer (9010-79-1)

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 information**

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

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Hazardous to the aquatic environment, long-term

: Not classified

(chronic)

### 12.2. Persistence and degradability

### Ethylene propylene copolymer (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

Ozone : Not classified

## **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Regional waste regulation

: Dispose of in accordance with relevant local regulations.

Waste treatment methods

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations

Empty containers should be taken for recycling, recovery or waste in accordance with local

regulation.

## **SECTION 14: Transport information**

In accordance with Transportation of Dangerous Goods / Department of Transport / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es	3)		
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

## 14.6. Special precautions for user

#### **TDG**

Not regulated

#### DOT

Not regulated

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#### **IMDG**

Not regulated

#### **IATA**

Not regulated

### 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. National regulations

#### Ethylene propylene copolymer (9010-79-1)

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2. International regulations

#### Ethylene propylene copolymer (9010-79-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### **SECTION 16: Other information**

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#### Indication of changes:

Not applicable.

Training advice : Ensure staff are informed of and trained on the nature of exposure and basic actions to minimise exposure.

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
CAS	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	

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Abbreviations and acronyms:		
vPvB	Very Persistent and Very Bioaccumulative	
PBT	Persistent Bioaccumulative Toxic	
SDS	DS Safety Data Sheet	

Safety Data Sheet (SDS), Canada

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.