Ultimaker

Safety data sheet PP

1. Identification of the substance/preparation and of the company

1.1 Trade name

1.2 Use of the product 3D-Printer filament

1.3 Supplier Ultimaker

(Watermolenweg 2, 4191PN, Geldermalsen, The Netherlands)

Emergency phone number In case of toxicological emergency contact your doctor

2. Hazards identification according to regulation (EC) No 1272/2008 and GHS

2.1 Classification of the substance or mixture Not classified

2.2 Label elements

Labelling Not applicable

2.3 Other hazards This product is physiologically inactive and there is no

hazardous effect to human health.

3. Composition/information on ingredients

3.1 Composition Not applicable

3.2 Mixture Poly(ethylene-co-propylene) - CAS 9010-79-1

4. First aid measures

4.1 Description of first aid measures General advice: If you feel unwell, seek medical advice

(show the label where possible). Never give anything by

mouth to an unconscious person.

Inhalation In case of inhalation of gases released from molten

filament, move person into fresh air.

Skin contact Wash with soap and water. Seek medical attention if

symptoms occur. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, do not try to peel it off and seek for medical attention, if necessary, for removal and treatment

of the burns.

Eye contact Any material that contacts the eye should be washed out

immediately with water. If easy to do, remove contact lenses. Seek medical attention if symptoms persist. If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. Seek medical

attention immediately.

Ingestion Not probable. Seek medical advice in case ingestion

occurs.

Note to physician Treat symptomatically.

4.2 Most important symptoms and effects, both acute

and delayed

Burns should be treated as thermal burns. The material will come off as healing occurs; therefore immediate removal

from skin is not necessary.

4.3 Indication of any immediate medical attention and

special treatment needed

No data available

5. Firefighting measures

Material can accumulate static charges which may cause

an electrical spark (ignition source). Use proper bonding

and/or grounding procedures.

5.1 Extinguishing mediaCarbon dioxide (CO₂), water spray, dry-chemical powder.

Unsuitable extinguishing media: not known.

5.2 Special hazards arising from the substance or mixture Burning produces obnoxious and toxic fumes: carbon

oxides (CO_x), hydrocarbons, oxidized hydrocarbons,

acetaldehyde.

5.3 Advice for firefighters

Use self-contained breathing apparatus and full protective

clothing.

6. Accidental release measures

6.1 Personal precautions, protective equipment and

emergency procedures

Avoid breathing gases released from molten filament. Ensure adequate ventilation, especially in confined areas.

6.2 Environmental precautionsNo data available

6.3 Methods and materials for containment and cleaning

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Allow molten material to solidify. Dispose waste and residue in accordance with local regulations.

6.4 Reference to other sections

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with molten material

7.2 Conditions for safe storage, including any

incompatibilities

Product should be stored in a dry and cool place at temperatures between -20 to +30 °C and below 50 %

relative humidity. Avoid direct sunlight.

7.3 Specific end use(s) Filament for 3D printing

8. Exposure controls/personal protection

8.1 Control parameters (*)

None

DNEL: No data available

PNEC: No data available

8.2 Exposure controls

Eye protection Use safety glasses for prolongated stare at printing

Skin and body protection Good practices suggest to minimize skin contact. When

material is heated, wear gloves to protect against thermal

burns

Respiratory protection If engineering controls do not maintain airborne

concentrations below recommended exposure limits (when applicable) or to an acceptable level (in countries where exposure limits have not been established) an approved respirator must be worn. Respirator type: air-purifying respirator with an appropriate government approved (where applicable) air purifying filter, cartridge or canister. Contact a health and safety professional or manufacturer for specific

information

Hand protection Follow good industrial hygiene practices

Hygiene measures Follow good industrial hygiene practices

Engineering measures Good general ventilation (typically 10 air changes per hour)

is recommended. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls that maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain

airborne levels to an acceptable level

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Filament
Color Natural
Odor Slight
Flash point -

Ignition temperature - Thermal decomposition $> 300 \, ^{\circ}\mathrm{C}$

Auto-ignition temperature < 400 °C (Estimation)

Melting point/range 123-165 °C
Density 0.89 g/cm³
Water solubility Insoluble

Solubility in other solvents Slightly soluble in organic solvents

9.2 Other information

10. Stability Stable under recommended storage conditions

10.1 Reactivity This product is stable if stored and handled as indicated

10.2 Chemical stability

This product is stable if stored and handled as indicated

10.3 Possibility of hazardous reactions No decomposition or hazardous reactions if stored and

applied as directed

10.4 Conditions to avoid Print temperatures above 300 °C (at standard printing

speeds).

10.5 Incompatible materials Strong oxidizing agents

10.6 Hazardous decomposition products See 5.2

11. Toxicological information

11.1 Information on toxicological effects

Principle routes of exposure Eye contact, skin contact, inhalation, ingestion

Acute toxicity None (rats)

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization No data available

Reproductive toxicity

No data available

Carcinogenicity No data available

12. Ecological information

12.1 Toxicity No data available

12.2 Persistence and degradability

No data available

12.3 Bio accumulative potential No data available

12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment No data available

12.6 Other adverse effects No data available

13. Disposal considerations

13.1 Waste treatment methods

In accordance with local and national regulations

14. Transport information

ADR
RID
Not regulated as dangerous goods
Not regulated as dangerous goods
IATA
Not regulated as dangerous goods
Not regulated as dangerous goods
Not regulated as dangerous goods

Special precautions for user Keep away from strong oxidizers and sources of ignition

15. Regulatory information

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

US Regulations:

Sara 313 title III
TSCA inventory list
OSHA hazard category
CERCLA
WHMIS
State right-to-know requirements

Other inventories:

Canada DSL inventory list REACH/EU EINIECS NEHAPS Japan (ECL/MITI) Australia (AICS) Korean toxic substances control act (ECL) Philippines inventory (PICCS) Chinese chemical inventory (IECSC) -

15.2 Chemical safety assessment

A chemical Safety Assessment has not been carried out for this product

16. Other information

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