

according to Regulation (EC) No. 1907/2006 (REACH)

PET-G various colours

Date of compilation: 14. 08. 2023 Revision: (date) -

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name PET-G various colours

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

Relevant identified uses

FDM 3D Printing

Consumer use (private households)

Professional use

Uses advised against

irrelevant

1.3 Details of the supplier of the safety data sheet

Supplier - business name Roffelsen Plastics B.V.

Street Lichttoren 32
Post code 5611 BJ
The city Eindhoven
State Netherlands

Telephone/fax number +31 (0) 492 59 2800 / -

Person responsible for the card post@roffelsen.com

E-mail post@roffelsen.com

Website: http://www.roffelsen3D.com

1.4 Emergency telephone number

Emergency information service +31 (0) 492 59 2800

This number is only available during the following office hours:

Mon-Fri 09:00 - 17:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Not required.

2.3 Other hazards

The hazards of this product are associated mainly with its processing. Molten polymer will produce thermal burns. Polymer dust may represent a fire hazard at sufficient concentrations in presence of ignition sources.

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The substance does not meet the criteria for PBT and vPvB in accordance with Annex XIII. The substance was not included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, and the substance is not a substance identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1 Substances:

not relevant

3.2 Mixture

Chemical identity	CAS	Hazard class(es)	Hazard	Labelling	Concentration
	EC	and category	statements	Codes of pictograms	
	Registration number	code(s)		and warning words	
PET-G	²⁵⁰³⁸⁻⁵⁹⁻⁹ Polymer	Not Classified	-	-	98 %
PET – colour concentrate; masterbatch (black, green, red, blue, orange)	Polymer	Not Classified	-	-	2 %

Full text of all classifications and hazard statements is given in the section 16.

Substance with an exposure limit in the working atmosphere

None

Substance with specific concentration limits / M-factors

None

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of accident: Contact a doctor or emergency department - bring the label or this safety data sheet.

Following inhalation

Move exposed person to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. Consult a physician after significant exposure.

Following skin contact

Cool skin rapidly with cold water after contact with molten polymer.

Do not peel polymer from the skin. Obtain medical attention.

Following eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.

Following ingestion

Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur and show the MSDS.

4.2 Most important symptoms and effects, both acute and delayed

No information available

4.3 Indication of any immediate medical attention and special treatment needed

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Notes to physician:

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments:

No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable

Use an extinguishing agent suitable to local circumstances and the surrounding environment. Example: Water Spray, Dry Chemical Powder and Carbon Dioxide.

Unsuitable

Do not use water, if fire is caused by an electrical short circuit.

5.2 Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide, acetaldehyde.

5.3 Advice for firefighters

Unusual fire and explosion hazards:

Powdered material may form explosive dust-air mixtures. High voltage static electricity build-up and discharge must be avoided when significant quantities of powdered material are present.

Special protective equipment for fire-fighters:

Wear self-contained breathing apparatus, protective clothing and headgear to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Put on appropriate personal protective equipment.

Spillages may be slippery. Clear up spillages.

The molten polymer may remain hot for some time due to low thermal conductivity. Use care when disposing of molten mass.

Do not breathe vapours or fumes that may be evolved during processing.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Vacuum or sweep up material and place in a container for recuperate or disposal. Avoid dust generation.

6.4 Reference to other sections

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See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures:

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene: Adequate ventilation and cleanliness must be employed in the processing area. Area should be controlled using good occupational hygiene practices. Accumulation of the dust may represent a fire and explosion hazard at sufficient concentrations. Remove ignition sources. Beware of electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers closed when not in use. Store in original container in a dry, cool and well-ventilated area, away from flame, ignition sources, direct sunlight or incompatible materials (see section 10). Maintain good housekeeping to control dust accumulations.

7.3 Specific end use(s)

Not Available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values:

No exposure limit value known

Relevant DNELs/DMELs/PNECs and other threshold levels:

No data available.

8.2 Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Provide for appropriate exhaust ventilation and dust collection at machinery. Provide exhaust ventilation at places where dust is formed.

Exposure controls

- individual protective measures

Hygiene measures:

Wash hands before eating and at the end of the working period. Eye/face protection: Not required under normal conditions of uses. Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields when working with molten material.

Skin protection

Hand protection:

Protective gloves are required when handling hot polymer.

Other skin protection:

Appropriate footwear and additional skin protection measures should be selected based on the task being perform and the risks involved and should be approved by a specialist before handling this product. A safety shower and washing facilities should be available.

Respiratory protection:

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Not required under normal conditions of uses. In the case of respirable dust and/or fumes, use self-contained breathing apparatus. If respirators are used, a program should be instituted to assure compliance with OSHA standard (OSHA Respiratory Protection Program Guidelines).

Thermal hazard:

not required

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Solid Pellets

Colour black, green, red, blue, orange

Odour odourless

Melting point/freezing point Not applicable

Boiling point or initial boiling point

and boiling range Not applicable
Evaporation rate Not applicable
Flammability Not applicable

Lower and upper explosion

limit Not applicable
Flash point Not applicable
Auto-ignition temperature Not applicable
Decomposition temperature Not applicable
pH Not applicable
Kinematic viscosity Not applicable
Solubility(ies) Insoluble in water

Partition coefficient

n-oktanol/water (log value) Not applicable
Vapour pressure Not applicable
Density ≥1,27 g/cm3
Relative vapour density Not applicable
Particle characteristics Not applicable

9.2 Other information

Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

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Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

No specific data.

10.5 Incompatible materials

Acetic Anhydride, acetone, aniline, benzene, chloroform, chromic acid, cyclohexanone, dimethylformamide, dioxane, ethyl acetate, phenol, tetrahydrofuran. Reactive with strong oxidizing agents, as well as strong acids and caustic will decompose polyester

10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide, acetaldehyde.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Classification according to GHS (1272/2008/EC, CLP)

Information on the likely routes of exposure:

Inhalation:

Combustion products may be irritant;

High concentration of dust may be irritant to the respiratory tract.

Ingestion:

Expected to be a low ingestion hazard.

Skin contact:

May cause physical abrasion in contact with skin. Molten polymer will adhere to the skin causing deep thermal burns.

Eve contact:

May cause physical abrasion in contact with eyes.

Acute toxicity

The product has not been tested.

The statements on toxicology have been derived from the properties of the individual component: SCHWARZ 30 PETG (3030 PETG):

LD50, oral >2000 mg/kg Rat

Skin corrosion/irritation

No known significant effects or critical hazards.

Serious eye damage/irritation

No known significant effects or critical hazards.

Respiratory or skin sensitisation

No known significant effects or critical hazards.

Germ cell mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

No known significant effects or critical hazards.

Reproductive toxicity

No known significant effects or critical hazards.

Specific target organ toxicity (STOT) - single exposure

No known significant effects or critical hazards.

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Specific target organ toxicity (STOT) - repeated exposure

No known significant effects or critical hazards.

Aspiration hazard

No known significant effects or critical hazards.

11.2 Information on other hazards:

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bio accumulative potential

Not available.

12.4 Mobility in soil

Insoluble in water

12.5 Results of PBT and vPvB assessment

Not available.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Methods of disposal:

Like most thermoplastics, the product can be recycled. Can be landfilled or incinerated, when in compliance with local regulations.

Hazardous waste:

Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging Methods of disposal:

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions:

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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SECTION 14: Transport information

14.1	UN number or ID number	Not applicable
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard class(es)	Not applicable
14.4	Packing group	Not applicable
14.5	Environmental hazards	Not applicable
14.6	Special precautions	
	for user	Not applicable

14.7 Maritime transport in bulk

according to IMO instruments Not applicable

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH):

Annex XIV:

List of Substances of Very High Concern for Authorization: None of the components are listed.

Annex XVII:

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: None of the components are listed.

Seveso Directive 2 012/18/EU (Seveso III)

No dangerous substance/hazard categories

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Not listed.

Water Framework Directive (WFD)

Not listed.

Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors, amending Regulation (EC) No 1907/2006 and repealing Regulation (EU) No 98/2013

Not listed.

Regulation on persistent organic pollutants (POP)

Not listed

National regulations (Netherlands)

SZW-lijst CMR effects

Not listed.

15.2 Chemical Safety Assessment

Not available

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de
	navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by

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Abbr.	Descriptions of used abbreviations	
	Inland Waterways)	
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)	
BOD	Biochemical Oxygen Demand	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
CMR	Carcinogenic, Mutagenic or toxic for Reproduction	
COD	Chemical oxygen demand	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DMEL	Derived Minimal Effect Level	
DNEL	Derived No-Effect Level	
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
EmS	Emergency Schedule	
ErC50 ≡ EC50	in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air	
IMDG	International Maritime Dangerous Goods Code	
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008	
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval	
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval	
LEL	Lower explosion limit (LEL)	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
ppm	Parts per million	
PNEC	Predicted No-Effect Concentration	

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Abbr.	Descriptions of used abbreviations
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods

Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Full text of all classifications and hazard statements none

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. For this product it is not legally required to provide an SDS under Article 31 of the REACH Regulation, because the product is not classified as hazardous. This document is prepared as a voluntary and additional service to provide general safety information.

End of safety data sheet

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