

Security Data Sheet (Recycle PET)

Recycle Co-polyester Polyethylene Terephthalate

In accordance with Commission Regulation (EU) 2015/830 of 28th May 2015 amending Regulation (EC) No 1907/2006, Annex II

1 - Identification of substances/mixtures and of the Company

Product

Name	Amorphous recycle co-polyester resin
Commercial name	Eolas Prints Recycle PET

Uses

Plastics for 3D printing (FFF/FDM) amongst others.

Supplier

Company	Eolas Prints S.L.
Address	Parque Empresarial Besaya D-14 39538 Reocín, Cantabria (Spain)
Telephone	+34 942735955
e-mail	info@eolasprints.com

Emergency phone (National Toxicologist Institute of Spain)

+34 915620420 (24h)



2 - Identification of risks

The substance is not classified as hazardous according to the Regulation (EC) No 1272/2008 (CLP/GHS) and the Directive 67/548/EEC

Label elements

Danger pictograms	Not applicable
Word of caution	Not applicable
Danger Warnings	Not applicable
Additional warning indications	Not applicable

Other risks

Hazards for people	Under normal conditions of use no danger to
	human health are noted
Environmental hazards	Under normal conditions of use, no
	environmental hazards are noted
	The product is completely recyclable
Physical-Chemical hazards	In case of thermal degradation, vapours or
	fumes are released
	Combustion, if exposed to flame

The risks of this product are related to its processing:

- The molten polymer may cause burns.
- Polymer dust may present a fire hazard in sufficient concentration and the presence of an ignition source.



3 - Composition, information on components

Product

Substance name	Co-polyester Polyethylene Terephthalate
CAS number	25038-59-9
EC number	Not applicable
IUPAC number	Not applicable
Index number under	Not available
Regulation (CE) 1272/2008	



4 - First aid

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In case of inhalation	Thermal degradation vapours: Oxygen therapy,
	if necessary
	Consult a doctor
After skin contact	In case of irritation caused by fine dust: rinse
	thoroughly with water until the irritation
	disappears
	Treat the affected area with cold water
	In case of adhesion due to melted product, do
	not try to remove the product
	Cool the area with water
	In case of burns, go to a hospital or medical
	centre for treatment
After eye contact	In case of irritation caused by fine dust: rinse
	thoroughly with water until the irritation
	disappears
	Visit an ophthalmologist
	In case of exposure to hot product splash:
	flush eyes with plenty of cold water
	In case of burns, go to a hospital or medical
	centre for treatment
In case of ingestion	Do not induce vomiting
	Seek medical help immediately



5 - Fire-fighting measures

Extinguishing equipment

Appropriate extinguishing	Small fires: CO2, powder extinguisher and
equipment	water
	Big fires: foam extinguisher and water spray for
	cooling fire-exposed surfaces
Inappropriate extinguishing	Pressurized water jets (could help the fire to
equipment	spread)

Specific hazards arising from the substance or mixture

- Complete combustion with excess O2 produces CO2 and water vapour.
- Partial combustion may produce CO, soot, aldehydes, and ketones.
- Dust may cause explosion mixed with air, initiated by a spark, flame or any ignition source.



6 - Accidental release measures

Personal precautions, protective equipment, and emergency procedures

Non-emergency personnel	Stop the leak if it is safe to do so Be aware of the materials and conditions to be avoided Do not touch or step on spilled material
Emergency personnel	Extinguish all ignition sources Ventilate the area Prevent dust clouds from forming

Environmental precautions

Avoid entry into sewers, drains, basements, or confined areas.

Methods and materials for containment and clean-up

- If little material has been spilled, pour plenty of water on the area. Collect with sand or other non-combustible absorbent material and place in containers for later disposal.
- If a lot of material has been spilled, contain the liquid spillage with a dike for later disposal.
- Using a clean shovel, shovel the material into a clean, dry container and cover loosely; remove containers from the spillage area.

Containment

If a lot of material has been spilled, contain the liquid spillage with a dike for later disposal.

Cleaning

- If little material has been spilled, pour plenty of water on the area. Scoop up with sand or other non-combustible absorbent material and place in containers for later disposal.
- Using a clean shovel, shove the material into a clean, dry container and cover loosely; remove containers from the spill area.

Reference to other sections

See also sections 8 and 13 of this Safety Data Sheet.



7 - Handling and storage

Precautions for safe handling

Protection measures	Be aware of materials and conditions to avoid Wash thoroughly after handling Work in accordance with engineering controls and use personal protective equipment
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Fire prevention measures	Use caution when the temperature is high
Environmental protection	Not available
measures	
Measures to prevent the	Not available
generation of dust and	
aerosols	
General occupational hygiene	Not available
advice	

Safe storage conditions

Technical measures and	Not available
storage conditions	
Packaging materials	Not available
Requirements for storage	Use a closed container for storage
rooms and storage vessels	The storage place should be cool and dry



8 - Exposure controls/personal protection

Control parameters

Components with	Contains no substances with occupational
occupational exposure limits	exposure limit values
Biological Limit Values	Not established
PNEC	The obligation to register under REACH
	Regulation (EC) No 1907/2006 does not apply
	to polymers
DNEL	The obligation to register under REACH
	Regulation (EC) No 1907/2006 does not apply
	to polymers

Appropriate engineering controls

Measures related to the	Use local exhaust ventilation or other
substance/mixture to prevent	engineering controls to maintain airborne
exposure during identified	vapour exposure concentrations below the
uses	limit value
Structural measures to	Not available
prevent exposure	
Organisational measures to	Not available
prevent exposure	
Technical measures to	Not available
prevent exposure	



Individual protection measures (personal protective equipment)

Eye/ face protection	Wear contour-fitting safety glasses (EN166)
Hand protection	Wear protective gloves (EN374): butyl rubber, thickness: 0.5 mm. (Wear time: > 8 hours) For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves Use heat resistant gloves when handling hot / molten product
Other protection measures	Wear heat-resistant protective clothing when handling hot/molten product
Respiratory protection	In case of inadequate ventilation wear respiratory protection. Full-piece or half-face respiratory protective equipment (with goggles) Particulate filter device, level 1 or 2 (EN 149) A special ventilation system is not required, as there are no VOC or other toxic materials produced during the process.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface, and ground water.



9 - Physical and chemical properties

Appearance

Physical state	Solid
Form	Pellets or Filament
Colour	Light transparent blue
Odour	No smell
Odour threshold	Not applicable

Other properties

ph.	Not applicable
Melting point/freezing point	>100°C/ Not applicable
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Explosive properties	If dust occurs
Combustion properties	No
Vapour pressure	No
Density	1,38 g/ml at 25°C
Solubility	negligible
Water solubility	Insoluble
n-octanol/water (log KOW)	Not applicable
Viscosity	Not applicable
Vapour density	Not applicable
Evaporation rate	Very low
Auto-ignition temperature	454°C (ASTM E 659)
Decomposition temperature	>250°C



10 - Stability and reactivity

Reactivity	Some of these materials can burn, but do not ignite easily
Chemical stability	Stable under normal temperature and pressure conditions
Possibility of dangerous reactions	Containers may explode when heated Fire may produce irritating and/or toxic gases Some liquids produce vapours that can cause dizziness or asphyxiation. Inhalation of the material can be harmful
Conditions to be avoided	Sources of ignition (heat, sparks, or flames)
Incompatible materials	Fuels
Hazardous decomposition products	Irritant and/or toxic gases



11 - Toxicological Information

Acute toxicity	Ingestion: No known effect
	Dust ingestion may cause gastrointestinal
	irritation, nausea, vomiting and diarrhoea
	Skin contact: No known effect
	Molten material will cause burns
	Inhalation: No known effect
	Dust from the product may be irritating to
	eyes, skin, and respiratory system
	Resin particles, like other inert materials, are
	mechanically irritating to the eyes
Germ cell mutagenicity	Not known to cause heritable genetic damage
Carcinogenicity	It does not contain any ingredients considered
	carcinogenic
Reproductive toxicity	Not known to cause birth defects or to have a
	deleterious effect on a developing foetus
	Not known to adversely affect reproductive
	organs and functions
STOT-single exposure	No known effect
STOT-repeated exposure	No known effect
Aspiration hazard	No known effect



12 - Ecological Information

- Contains no substances known to be hazardous to the environment.
- Inherently biodegradable under industrial composting conditions.
- Fully recyclable.
- Bio accumulative potential: No data available.



13 - Disposal considerations

- Dispose of contents/container in accordance with local/regional/national/international regulations.
- Sewage disposal-relevant information: Do not empty into drains.
- Waste treatment of containers/ packages: Handle contaminated packages in the same way as the substance itself.



14 - Transport information

NU number	Not applicable
Official NU transport designation	Not applicable
Transport hazard class	Not applicable
Packing group	Not applicable
Environmental hazards	Not applicable
Special precautions	In case of fire: Not applicable In case of escape: Not applicable
Transport in bulk in accordance with Annex II of Marpol 73/78 and the IBC Code	Not applicable



15 - Regulatory information

EU legislation and classification

Classification	Not regulated
Hazard identification codes	Not regulated
List of EU SVHCs	Not regulated
EU authorisation list	Not regulated
List of EU restrictions	Not regulated
EU BPR	Not regulated

Foreign regulatory information

Substance of the Rotterdam Convention	Not regulated
Substance of the Stockholm Convention	Not regulated
Substance of the Montreal protocol	Not regulated

Security assessment

No chemical safety assessment has been carried out by the supplier for this substance/mixture.



16 - Other information

Product Safety Data Sheet prepared according to Regulation (EU) 2015/830 (REACH), Annex II

Revised

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Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

CLP = Classification, Labelling and Packaging Regulation; Regulation (EC) No. 1272/2008

CAS No. = Chemical Abstracts Service number

EC No. = EINECS and ELINCS (see also EINECS and ELINCS)

EU = European Union

IARC = International Agency for Research on Cancer

NIOSH = National Institute for Occupational Safety and Health

NTP = National Toxicology Programme

OSHA = European Agency for Safety and Health at Work

PBT = Persistent, Bioaccumulate and Toxic Substance

REACH = Regulation on the Registration, Evaluation, Authorisation and Restriction

of Chemicals (Regulation (EC) No. 453/2010)

SVHC = Substances of Very High Concern

vPvB = very persistent and very bioaccumulate

MARPOL = International Convention for the Prevention of Pollution from Ships (IMO)

IBC = Intermediate Bulk Container

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

STOT = Specific target organ toxicity



Main bibliographical references and data sources

- Threshold Limit Values and Biological Exposure Indices of the American Conference of Governmental Industrial Hygienists. Governmental.
- NIOSH Pocket Guide: https://www.cdc.gov/niosh/npg/default.html
- National Toxicological Programme: https://ntp.niehs.nih.gov/data/index.html
- IARC monographs on the evaluation of carcinogenic risks to humans. http://monographs.iarc.fr
- EU CLP: https://echa.europa.eu/information-on-chemicals/cl-inventory-database
- TOMES-LOLI®: http://www.rightanswerknowledge.com/loginRA.asp

Classification and procedure used to derive the classification of mixtures according to Regulation (EC) No 1272/2008 (CLP)

Classification according to Regulation (EC) No 1272/2008 (CLP)	Not classified
Classification procedure	Not available

Consultancy

Do not handle until you have read and understood all safety precautions.

More information

This Safety Data Sheet (SDS) is based on the legal provisions of the REACH Regulation, as amended. Its contents are intended as a guide to handling the material in accordance with appropriate safety precautions. It is the responsibility of the addressees of this SDS to ensure that all persons who might use, handle, dispose of or come into contact with the material, it is the responsibility of the recipients of this SDS to ensure that all persons who might use, handle, dispose of, or come into contact with the product read and understand all the information contained herein. The information and instructions provided in this SDS are based on the current state of scientific and technological knowledge at the date of issue indicated. It should not be construed as any kind of guarantee of technical performance or suitability for specific applications, nor does it establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.

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