

Security Data Sheet (ASA)

Co-polymer Kibilac ABS

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	Co-polymer Kibilac ASA
Commercial name	Eolas Prints ASA

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	Acrylonitrile-Styrene-Acrylate copolymer
CAS number	26299-47-8
EC number	Not applicable
IUPAC number	Not applicable
Index number under Regulation (CE) 1272/2008	Not available

Composition

CAS Number	Name	Content
26299-47-8	Acrylonitrile-Styrene-Acrylate copolymer	>97 %
-	Additives	≤ 3 %

Additional information:

Preparation does not contain dangerous substances above limits that need to be mentioned in this section according to applicable legislation

	Registration No.
Acrylonitrile	01-2119474195-34-0045
Styrene	01-2119457861-32-0006
	01-2119457861-32-0007
	01-2119457861-32-0057
	01-2119457861-32-0065
	01-2119457861-32-0081
Pentaerythritol stearate (PETS)	01-2119971071-44-0006
Butyl acrylate	01-2119453155-43-0017

4 - First aid

In case of inhalation	Thermal degradation vapours: Oxygen therapy, if necessary In case of gases evolving from melted resin, move subject to fresh air. 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 equipment	Small fires: CO ₂ , powder extinguisher and water
	Big fires: foam extinguisher and water spray for cooling fire-exposed surfaces
Inappropriate extinguishing equipment	Pressurized water jets (could help the fire to 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	<p>Stop the leak if it is safe to do so</p> <p>Be aware of the materials and conditions to be avoided</p> <p>Do not touch or step on spilled material</p> <p>Pellets or powder remained on ground may cause slipping</p>
Emergency personnel	<p>Extinguish all ignition sources</p> <p>Ventilate the area</p> <p>Prevent dust clouds from forming</p>

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
Fire prevention measures	Use caution when the temperature is high Prevent from fire around handling area
Environmental protection measures	Not available
Measures to prevent the generation of dust and aerosols	Maintain good housekeeping standards to prevent accumulation of dust. To avoid dust explosion resulting from the existence of powder, electrostatics eliminators and grounding should be fixed to such equipment as air transferring pipes, bag filters and hoppers. Use electrically conductive filters for bag filters.
General occupational hygiene advice	Not available

Safe storage conditions

Technical measures and storage conditions	Protect from direct sunlight, rain and violent temperature fluctuation Fire is inhibited around storage area
Packaging materials	Not available
Requirements for storage rooms and storage vessels	Use a closed container for storage The storage place should be cool and dry

8 – Exposure controls/personal protection

Control parameters

Components with occupational exposure limits	Contains no substances with occupational 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 substance/mixture to prevent exposure during identified uses	Use local exhaust ventilation or other engineering controls to maintain airborne vapour exposure concentrations below the limit value Install eyes washer and shower in the place of operation
Structural measures to prevent exposure	Not available
Organisational measures to prevent exposure	Not available
Technical measures to prevent exposure	Not available

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 2 (EN 149)

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	Off-white
Odour	No smell
Odour threshold	None

Other properties

ph.	Not applicable
Melting point/freezing point	Not determined
Initial boiling point and boiling range	Not applicable
Flash point	404°C
Explosive properties	Not explosive
Combustion properties	No
Vapour pressure	Not applicable
Density	1,07 g/cm ³ at 25°C
Solubility	negligible
Water solubility	Insoluble
n-octanol/water (log KOW)	Not applicable
Viscosity	Not applicable
Vapour density	Not applicable
Evaporation rate	Not available
Auto-ignition temperature	466°C (ASTM E 659)
Decomposition temperature	>300°C

10 – Stability and reactivity

Reactivity	Non-reactive under normal handling and storage conditions
Chemical stability	Stable under normal temperature and pressure conditions
Possibility of dangerous reactions	-
Conditions to be avoided	Avoid excessive heat, flames, and all sources of ignition
Incompatible materials	Not applicable
Hazardous decomposition products	Not applicable

11 – Toxicological Information

Acute toxicity	Ingestion: No specific effect Dust ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea
	Skin contact: No specific effect Molten material will cause burns
	Inhalation: No specific 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

Toxicity

No data available

Persistence and Degradability

No data available

- Bio accumulative potential: To avoid bioaccumulation plastics should not be disposed in the sea or in other water environments.
- Mobility in soil: No data available
- Results PBT & vPvB assessment: According to the revised Annex XIII of regulation (EC) 1907/2006 and (EC) 253/2011: No information available on the product as such
- Other adverse effects: Do not allow to enter groundwater, surface water or drains

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.
- Inadequate incineration may generate toxic gases such as CO, HCN, AN and SM

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 considered environmentally hazardous based on available data
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
NOEC = No Observed Effect Concentration
LC (50) = Lethal Concentration 50

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>
- European Chemicals Agency: <http://echa.europa.eu/>

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.

****Disclaimer:** The product and technical information provided in this datasheet is correct to the best of our knowledge. The information given is provided as a guidance for good use, handling and processing and is not to be considered as a



quality specification. The information only relates to the specific product and the material properties.