Trade Name: 3DO PLA

Manufactured in: EU

Use Of Product: 3D printing
filament made of biodegradable
polymer composite.

3DO PLA Material Safety Data Sheet 1/5

Hazard Identification

Classification: No need for classification according to GHS criteria for this product

(according to Regulation (EC) No. 1272/2008 [CPL]).

Label Elements: None

Special advice on hazards: Burns are possible if you come into touch with a heated polymer.

In the event of a fire, hazardous vapours will be released.

Composition

Chemical characteristics: This material can generate Particulates Not Otherwise Classifiable (PNOC). The

Occupational Safety and Health Administration (OSHA) PEL/TWA for PNOC is 15

 $\,$ mg/m3 for total dust and 5 mg/m3 for the respirable fraction. The American

Conference of Governmental Industrial Hygienists (ACGIH) TLV/TWA for PNOC is 10

mg/m3 for inhalable particulates and 3 mg/m3 for respirable particulates.

Additional information: No harmful ingredients

First-aid measures

On skin contact Adverse effects are not expected from accidental skin contact following occupation

nal exposure. After contact with skin, wash immediately with plenty of water If skin irritation persists, call a physician Cool skin rapidly with cold water after contact

with hot polymer. DO NOT attempt to remove hot polymer from skin or contaminated

clothing as skin may be easily damaged. Call a physician immediately.

After inhalation Move to fresh air. Call a physician immediately.

On ingestion Drink water as a precaution. Never give anything by mouth to an unconscious per-

son Do not induce vomiting without medical advice Call a physician immediately.

On eyes contact Rinse immediately with plenty of water,

also under the eyelids, for at least 15 minutes.

Call a physician immediately.



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Fire-fighting measures

Fire extinguishing media: Foam. Water. Carbon dioxide (CO2). Dry chemical. Alcohol resistant foams are

preferred if available. General-purpose synthetic foams (including AFFF) or protein

foams may function, but much less effectively.

Special exposure hazards: Burning produces obnoxious and toxic fumes Aldehydes, Carbon monoxide (CO),

carbon dioxide (CO2).

Special protective equipment: As in any fire, wear self-contained breathing apparatus pressure-demand,

MSHA/NIOSH (approved or equivalent) and full protective gear. Under fire

conditions: Cool containers / tanks with water spray Water mist may be used to cool closed containers Fine dust dispersed in air may ignite. Risks of ignition followed by

flame propagation or secondary explosions shall be prevented by avoiding

accumulation of dust, e.g. on floors and ledges.

Accidential release measures

Personal precautions: Use suitable protective clothing. Avoid eye contact and inhalation of dusts. Keep

ignition sources away

Methods for cleaning: Sweep up material and place in a container, risk of slipping. Avoid ingress of

material into drainage systems.

Handling and storage

Handling Avoid contact with molten polymer. Avoid generation of dust

and electros- tatic charge.

Storage Protect against moisture and UV radiation. Store cool and keep packaging closed

when not in use. Avoid sources of ignition.



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3DO PLA Material Safety Data Sheet 3/5

Personal protection

Technical safety measures With suitable ventilation the threshold limits assumably will not be reached. Avoid

electrostatic charge by use of grounding cables.

heat protection gloves. In case of dust formation wear mask with particle filter.

Work hygiene No eating or drinking during working. Avoid contact of hotmaterial with the skin.

Avoid breathing dust and vapours.

Phisical and chemical properties

Form: Filament
Color: Colored

Melting range: 180-200 °c

Oxidising properties: Not self igniting / flammable

Density: 1.22g/cm³

Stability and reactivity

Stability The product is stable at recommended storage contidions.

Conditions to be avoided Avoid extreme heat and all sources of ignition.

Thermal decomposition > 250 °c

Substances to be avoided Strong oxidizing agents.

tetrahydrofurane, low molecular weight oligomers.



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Toxological information

Local irritation Dust can cause irritation of eyes, respiratory organs and skin. After ingestion

stomach pain or nausea are possible.

Other remarks Based on our state of knowledge and experience no injurious health effects are

expected if product is properly handled for the designated use.

Ecological information

Ecotoxical effects No negative ecological effects known at the present state of knowledge, test results

are not available. Due to insolubility in water most probably not hazardous to aquatic

organisms.

Toxicity Ec50/72h/algae > 1100 mg/l

Biological degradation Product is biodegradable, in accordance with en 13432.

Bioaccumulation Due to its consistency and insolubility in water biological accumulation is not

expected.

Disposal considerations

Product Generation of waste should be minimised, check possibility for recycling. Waste

product can be incinerated or dumped together with domestic waste in compliance

with local authority requirements.



Trade Name: 3DO PLA
Manufactured in: EU
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filament made of biodegradable

polymer composite.

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Transport information

Transport regulations Not classified as hazardous under transport regulations adr, adnr, rid, icao/iata,

imdg/ggvsee.

Regulatory information

Chemical safety assessment Not applicable

U.S. Regulations Sara 313 title iii: not listed tsca inventory list: listed

Japanese inventory (encs): listed

Australia (aics): listed

Korean chemical inventory: listed

Phillipines (piccs) inventory: contact natureworks for additional information. Taiwan

chemical substance inventory (tcsi): listed

China inventory of existing chemical substances list: listed

Other information

This data is based on the current state of our information and experience. This safety data sheet describes our product in terms of safety requirements. Preceding data is not applicable as a warranty of product properties. It is the responsibility of the recipient to observe the existing legal regulations for the use of this product.

