

1. PRODUCT IDENTIFICATION

1.1 PRODUCT IDENTIFIER

TRADE NAME Extrudr PLA NX1

1.2 MANUFACTURER

ADRESS FD3D GmbH/Extrudr

Höchsterstraße 81 A-6972 Fußach

EMAIL info@extrudr.eu

1.3 USE OF PRODUCT

A biocompound, which can be used for, suitable for 3D printing filament

2. 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 Danger of burns in contact with hot polymer.

Hazardous vapours in case of burning.

3. 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



4. FIRST-AID MEASURES

ON SKIN CONTACT Adverse effects are not expected from accidental skin

> contact following occupational 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 person 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 immedia-

tely

5. FIRE-FIGHTING MEASURES

SUITABLE 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.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS Use suitable protective clothing. Avoid eye contact and

inhalation of dusts. Keep ignition sources away.

METHODS FOR CLEANING UP Sweep up material and place in a container, risk of slip-

ping. Avoid ingress of material into drainage systems.

2. HANDLING AND STORAGE

HANDLING Avoid contact with molten polymer. Avoid generation of

dust and electrostatic charge.

Protect against moisture and UV radiation. Store cool and

keep packaging closed when not in use. Avoid sources of

ignition.



8. PERSONAL PROTECTION

TECHNICAL SAFETY MEASURES With suitable ventilation the threshold limits assumably

will not be reached. Avoid electrostatic charge by use of

grounding cables.

PERSONAL SAFETY EQUIPMENT Use adequate safety equipment, e.g. protective clothing,

eye protection glasses, heat protection gloves. In case of

dust formation wear mask with particle filter.

WORK HYGIENE No eating or drinking during working. Avoid contact of hot

material with the skin. Avoid breathing dust and vapours.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM Filament

COLOR colored

MELTING RANGE 150-180°C

OXIDISING PROPERTIES not self igniting / flammable

DENSITY 1.22 g/cm³

10. STABILITY AND REACTIVITY

STABILITY The product is stable at recommended storage conditions.

CONDITIONS TO BE AVOIDED Avoid exposure to extreme heat and all sources of ignition.

Thermal decomposition > 250 °C.

SUBSTANCES TO BE AVOIDED Strong oxidising agents.

HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide, aldehydes, acetic acid,

tetrahydrofurane, low molecular weight oligomers.

11. TOXICOLOGICAL 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.



12. 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.

13. DISPOSAL CONSIDERATIONS

PRODUCT Generation of waste should be minimised, check possi-

bility for recycling. Waste product can be incinerated or dumped together with domestic waste in compliance with

local authority requirements.

14. TRANSPORT INFORMATION

TRANSPORT REGULATIONS Not classified as hazardous under transport regulations

ADR, ADNR, RID, ICAO/IATA, IMDG/GGVSee.

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION

No information available

15.2 CHEMICAL SAFETY ASSESSMENT

Not applicable

Regulatory requirements are subject to change and may differ between locations. It is the User's responsibility to ensure that all activities comply with all federal, state or provincial and locals laws and regulations. The following specific information is made for the purpose of complying with numerous national, federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

15.3 U.S. REGULATIONS

Sara 313 title III: Not Listed

TSCA Inventory List: Listed



15.4 INTERNATIONAL INVENTORIES

Canada DSL Inventory List: Listed

REACH/EU EINECS List: Components are in compliance with and/or are 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

16. 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.

