

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 03.18.2022

Page 1 of 8

Nylon 11

SECTION 1: Identification

Product identifier

Product name: Nylon 11

Product code: FLP11G01

Recommended use of the product and restriction on use

Relevant identified uses: For use in Formlabs Fuse Printers

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

Formlabs, Inc

35 Medford St

Suite 201 Somerville, MA 02143

+1 617 855 0762

sds@formlabs.com

Emergency telephone number:

1-800-424-9300 (24/7)

Medical emergency phone number:

13 11 26 (24/7)

SECTION 2: Hazard(s) identification

GHS classification: Not a hazardous substance or mixture

Label elements

Hazard pictograms: None

Signal Word: None

Hazard statements: None

Precautionary statements: None

Hazards not otherwise classified:

None

SECTION 3: Composition and information on ingredients

Identification	Name	Weight %
CAS number: 25587-80-8	Polyundecanamide	<100

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 03.18.2022

Page 2 of 8

Nylon 11

CAS number: 1333-86-4	Carbon Black	<1
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Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Not determined or not applicable.

After skin contact:

Not determined or not applicable.

After eye contact:

Not determined or not applicable.

After swallowing:

Not determined or not applicable.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Not determined or not applicable.

SECTION 5: Fire fighting measures

Extinguishing media

Suitable extinguishing media:

Not determined or not applicable.

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Not determined or not applicable.

Special protective equipment for firefighters:

Not determined or not applicable.

Special precautions:

Not determined or not applicable.

SECTION 6: Accidental release measures

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 03.18.2022

Page 3 of 8

Nylon 11

Personal precautions, protective equipment and emergency procedures:

Not determined or not applicable.

Environmental precautions:

Not determined or not applicable.

Methods and material for containment and cleaning up:

Not determined or not applicable.

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage precautions

Precautions for safe handling:

Not determined or not applicable.

Conditions for safe storage, including any incompatibilities:

Not determined or not applicable.

SECTION 8: Exposure controls and personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Australia	Carbon Black	1333-86-4	TWA: 3 mg/m ³
	Carbon Black	1333-86-4	TWA: 10 mg/m ³ (Nuisance dust, inhalable dusts)

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Not determined or not applicable.

Appropriate engineering controls:

Not determined or not applicable.

Personal protection equipment

Eye and face protection:

Not determined or not applicable.

Skin and body protection:

Not determined or not applicable.

Respiratory protection:

Not determined or not applicable.

General hygienic measures:

Not determined or not applicable.

SECTION 9: Physical and chemical properties

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 03.18.2022

Page 4 of 8

Nylon 11

Information on basic physical and chemical properties

Appearance	Black Powder
Odor	Odorless
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	> 842 °F (> 450 °C)
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

Thermal decomposition giving flammable, toxic and corrosive products: Carbon oxides Ammonia Hydrogen cyanide (hydrocyanic acid).

Conditions to avoid:

Store protected from moisture and heat.

Incompatible materials:

None known.

Hazardous decomposition products:

None known.

SECTION 11: Hazard information

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 03.18.2022

Page 5 of 8

Nylon 11

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Carbon Black	oral	LD50 Rat: >2000 mg/kg
	dermal	LD50 Rabbit: >3000 mg/kg

Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Species	Result
Carbon Black	Not applicable	Suspected of causing cancer by inhalation exposure route.

International Agency for Research on Cancer (IARC):

Name	Classification
Carbon Black	Group 2B
Polyundecanamide	Not Applicable

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 03.18.2022

Page 6 of 8

Nylon 11

Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Carbon Black	Fish LC50 Danio reruo: >1000 mg/L (96 h)
	Aquatic Plants EC50 Desmodesmus subspicatus: >10000 mg/L (48 h)

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data:

Name	Result
Carbon Black	Carbon black is an inorganic substance and will not be biodegraded by microorganisms.

Bioaccumulative potential

Product data: No data available.

Substance data:

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 03.18.2022

Page 7 of 8

Nylon 11

Name	Result
Carbon Black	Bioaccumulation is not expected to occur.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Results of PBT and vPvB assessment

Product data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance data:

PBT assessment:

Carbon Black	This substance is not PBT.
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vPvB assessment:

Carbon Black	This substance is not vPvB.
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Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

Contaminated packages:

Packaging material should be recycled or disposed of in accordance with federal, state, and local regulations.

SECTION 14: Transport information

Australian Dangerous Goods (ADG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 03.18.2022

Page 8 of 8

Nylon 11

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

Australia regulations

Australian Inventory of Chemical Substances (AICS): All ingredients are listed or exempt.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):

Ingredient Name	CAS	Schedules
Carbon Black	1333-86-4	Not Applicable

Additional information: Not determined.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This SDS was authored in accordance with the Australian Work Health and Safety Regulations and supplemented by the Australian Code of Practice on the Preparation of Safety Data Sheets for Hazardous Chemicals. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

Initial preparation date: 03.18.2022

End of Safety Data Sheet