Section 1: Identification: Product identifier and chemical identity

Product identifier

Product Name
PLA Natural

Product Code(s)
SDS-400791 BE U NAT

PN (Part Number)
333-60131

Other means of identification

Pure substance/mixture
Mixture

Recommended use of the chemical and restrictions on use

Recommended Use
3D Printing

Uses advised against
No information available

Details of manufacturer or importer

Importer
Stratasys AP Limited
7/F, C-BONS International Center
108 Wai Yip Street, Kwun Tong
Kowloon Hong Kong
+852 3944 8888

For further information, please contact

E-mail address
info@Stratasys.com

Emergency telephone number

Emergency telephone number
++49 722 97772280 - Europe - Multi lingual response
++49 722 97772281 - Global – English Language response
++1 978 495 5580 - USA – Multi-lingual response
++85 2 975 70887 - Asia Pacific - Multi lingual response
++61 2 8011 4763 - Australia - Multi lingual response
++86 15626070595 - China - Chinese response

Section 2: Hazard(s) identification

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS)

Label elements

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS)
Other hazards
If small particles are generated during further processing, handling, or by other means, combustible dust concentrations in air may form.
See section 7 for more information
See section 8 for more information
No information available

Section 3: Composition and information on ingredients, in accordance with Schedule 8

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-hazardous ingredients</td>
<td>Proprietary</td>
<td>Balance</td>
</tr>
</tbody>
</table>

Section 4: First aid measures

Description of first aid measures

Inhalation
Remove to fresh air.

Eye contact
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.

Skin contact
Wash skin with soap and water when in contact with molten residues.

Ingestion
Drink plenty of water. Do not induce vomiting without medical advice. Call a doctor immediately.

Most important symptoms and effects, both acute and delayed

Symptoms
None known.

Indication of any immediate medical attention and special treatment needed

Note to doctors
Treat symptomatically.

Section 5: Firefighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media
Foam. Water. Carbon dioxide (CO2). Dry chemical. Alcohol resistant foam.

Unsuitable extinguishing media
None known.

Specific hazards arising from the chemical

Specific hazards arising from the chemical
None known.

Special protective actions for fire-fighters

Special protective equipment for fire-fighters
Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: Accidental release measures
Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment as required. Avoid contact with skin and eyes. Remove all sources of ignition. Sweep up to prevent slipping hazard.

For emergency responders
Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions
Do not flush into surface water or sanitary sewer system. Keep out of waterways.

Methods and material for containment and cleaning up

Methods for containment
Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Pick up and transfer to properly labelled containers.

Precautions to prevent secondary hazards

Prevention of secondary hazards
Prevent dust cloud. Avoid dust accumulation in enclosed space. May form combustible dust concentrations in air if small particles are generated during further processing, handling or by other means. Remove all sources of ignition.

Section 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling

Advice on safe handling
Use personal protection equipment. Avoid contact with skin and eyes, when handling melted filament. If small particles are generated during further processing, handling, or by other means, combustible dust concentrations in air may form. Use respirator.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials
Oxidising agent. Strong bases.

Section 8: Exposure controls and personal protection

Control parameters

Exposure Limits
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls
If dust is generated during further processing provide exhaust ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection
Goggles. Safety glasses with side-shields.

Skin and body protection
Impervious clothing.

Respiratory protection
Minimise dust generation and accumulation. Wear respiratory protection.

Environmental exposure controls
No information available.
Section 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
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</thead>
<tbody>
<tr>
<td>pH</td>
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<td>None known</td>
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<tr>
<td>Melting point / freezing point</td>
<td>150 - 180 °C</td>
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<tr>
<td>Boiling point / boiling range</td>
<td>No data available</td>
<td>None known</td>
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<tr>
<td>Flash point</td>
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<tr>
<td>Evaporation rate</td>
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<tr>
<td>Flammability (solid, gas)</td>
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<td>None known</td>
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<tr>
<td>Flammability Limit in Air</td>
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<td>None known</td>
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<td>Softening point</td>
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<tr>
<td>Liquid Density</td>
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</tr>
<tr>
<td>Bulk density</td>
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<td></td>
</tr>
<tr>
<td>Particle Size</td>
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<td></td>
</tr>
<tr>
<td>Particle Size Distribution</td>
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<tr>
<td>Relative density</td>
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<td>None known</td>
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<td>Water solubility</td>
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<tr>
<td>Solubility(ies)</td>
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<tr>
<td>Partition coefficient</td>
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<tr>
<td>Autoignition temperature</td>
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<tr>
<td>Decomposition temperature</td>
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<tr>
<td>Kinematic viscosity</td>
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<td>None known</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No data available</td>
<td>None known</td>
</tr>
</tbody>
</table>

Section 10: Stability and reactivity

Reactivity

Reactivity

None under normal use conditions.

Chemical stability

Stability

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

Possibility of hazardous reactions

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid
Conditions to avoid  Excessive heat. To avoid thermal decomposition, do not overheat.

Incompatible materials

Incompatible materials  Oxidising agent. Strong bases.

Hazardous decomposition products


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**Section 11: Toxicological information**

**Acute toxicity**

**Information on likely routes of exposure**

**Product Information**

- **Inhalation**
  Specific test data for the substance or mixture is not available.

- **Eye contact**
  Specific test data for the substance or mixture is not available.

- **Skin contact**
  Specific test data for the substance or mixture is not available.

- **Ingestion**
  Specific test data for the substance or mixture is not available

**Symptoms**

None known.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

- **ATEmix (oral)**
  5,051.00 mg/kg

- **ATEmix (dermal)**
  2,020.00 mg/kg

**Unknown acute toxicity**

- No information available
- 1E-08 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 1E-08 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 1E-08 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 1E-08 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)
- 1E-08 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

See section 16 for terms and abbreviations

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

- **Skin corrosion/irritation**
  No information available.

- **Serious eye damage/eye irritation**
  No information available.

- **Respiratory or skin sensitisation**
  No information available.

- **Germ cell mutagenicity**
  No information available.

- **Carcinogenicity**
  No information available.

- **Reproductive toxicity**
  No information available.

- **STOT - single exposure**
  No information available.

- **STOT - repeated exposure**
  No information available.
Aspiration hazard

Section 12: Ecological information

Ecotoxicity

Unknown aquatic toxicity

0.1 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

Persistence and degradability

No information available.

Bioaccumulative potential

Bioaccumulation

Not likely to bioaccumulate.

Mobility

Mobility in soil

No information available.

Other adverse effects

No information available.

Section 13: Disposal considerations

Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

Section 14: Transport information

ADG

Not regulated

IATA

Not regulated

IMDG

Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

Section 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
National regulations

Australia
See section 8 for national exposure control parameters

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSCA</td>
<td>Listed</td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td>Listed</td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td>Listed</td>
</tr>
<tr>
<td>ENCS</td>
<td>Listed</td>
</tr>
<tr>
<td>IECSC</td>
<td>Listed</td>
</tr>
<tr>
<td>KECL</td>
<td>Listed</td>
</tr>
<tr>
<td>PICCS</td>
<td>Listed</td>
</tr>
<tr>
<td>AICS</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

Section 16: Any other relevant information

Revision Date 26-Jan-2017

Revision Note
The symbol (*) in the margin of this SDS indicates that this line has been revised.

Key or legend to abbreviations and acronyms used in the safety data sheet

<table>
<thead>
<tr>
<th>Legend</th>
<th>Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA</td>
<td>TWA (time-weighted average)</td>
</tr>
<tr>
<td>Ceiling</td>
<td>Maximum limit value</td>
</tr>
<tr>
<td>C</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>STEL</td>
<td>STEL (Short Term Exposure Limit)</td>
</tr>
<tr>
<td>*</td>
<td>Skin designation</td>
</tr>
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</table>

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End of Safety Data Sheet