Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name
ABS Ivory
ABS M30 Ivory
ABS 30
ABS 30 Natural
P430 ABS Ivory
P430L ABS Ivory
P430XL Ivory

Product Code(s)
SDS-000001 EN Z IVY

PN (Part Number)
311-20000 311-20018 333-60300 333-90300 340-21200 345-10005 345-42005 350-80100
355-02110 355-08110 360-50110 CQ703A

Other means of identification

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended Use Additive manufacturing

Uses advised against No information available

Details of the supplier of the safety data sheet

Importer
Objective3D Ltd
BDO Taranaki Limited
10 Young Street
New Plymouth, New Plymouth 4310
New Zealand
Phone: +64 9 801 0380

For further information, please contact

Contact Point Product Safety Department
E-mail address info@Stratasys.com
Emergency telephone number
Emergency Telephone +64 9 929 1483 - New Zealand - English Language response

Section 2: HAZARDS IDENTIFICATION

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

Label elements

----------------------------------------
Other hazards
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
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/INFORMATION ON INGREDIENTS

Substance
Not applicable

Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylonitrile butadiene styrene polymer</td>
<td>9003-56-9</td>
<td>80-100</td>
</tr>
<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 physician.

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 physician 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 physicians
Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

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 labeled 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

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

Oxidizing agent. Strong bases.

Section 8: EXPOSURE CONTROLS/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.

Biological occupational exposure limits  Not applicable.

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  Minimize 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>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
<td>None known</td>
</tr>
<tr>
<td>Appearance</td>
<td>Monofilament</td>
<td>None known</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Color</td>
<td>Characteristic</td>
<td>None known</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td>None known</td>
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<tr>
<td>pH</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt;380 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td>None known</td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.02 - 1.07</td>
<td>None known</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Insoluble in water</td>
<td>None known</td>
</tr>
<tr>
<td>Solubility(ies)</td>
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<td>None known</td>
</tr>
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<td>Partition coefficient</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
<td>None known</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>&gt;350 °C</td>
<td>None known</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
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<td>None known</td>
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<tr>
<td>Dynamic viscosity</td>
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<td>None known</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
<td>None known</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
<td>None known</td>
</tr>
</tbody>
</table>

**Other Information**
Section 10: STABILITY AND REACTIVITY

Reactivity

None under normal use conditions.

Chemical 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 Oxidizing agent. Strong bases.

Hazardous decomposition products

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO2). Aldehydes.

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

Unknown acute toxicity

No information available

100% of the mixture consists of ingredient(s) of unknown acute oral toxicity
100% of the mixture consists of ingredient(s) of unknown acute dermal toxicity
100% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
100% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
100% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylonitrile butadiene styrene polymer</td>
<td>&gt;5000 mg/kg rat</td>
<td>&gt;2000 mg/kg rabbit</td>
<td>-</td>
</tr>
</tbody>
</table>

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.

Sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>New Zealand</th>
<th>IARC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylonitrile butadiene styrene polymer - 9003-56-9</td>
<td></td>
<td>IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans</td>
</tr>
</tbody>
</table>

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

STOT - repeated exposure

No information available.

Aspiration hazard

No information available.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity

The environmental impact of this product has not been fully investigated

Unknown aquatic toxicity

1% of the mixture consists of component(s) of unknown hazards to the aquatic environment.
Persistence and degradability

Persistence and degradability
No information available.

Bioaccumulative potential

Bioaccumulation
Not likely to bioaccumulate.

Mobility

Mobility in soil
No information available.

Mobility
No information available.

Other adverse effects

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

**Road transport**

**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**

**New Zealand**

**Exposure Limits**
See Section 8 for any applicable Tolerable Exposure or Environmental Exposure Limits

**Certified handlers, tracking and controlled substance licence requirements**
• Certified handlers are required for some substances. This includes for substances requiring a controlled substance licence, including Class 1 explosives, vertebrate toxic agents (9.3A, B, C), and certain fumigants. Class 6.1A and 6.1B substances such as
pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information.

- Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured Please check the Health and Safety at Work Act 2015 for further information.
- Controlled substance licences are required to possess certain class 1 (explosive) and class 6 (vertebrate toxic agents or fumigants) substances. See Part 7 of the Health and Safety at Work Regulation 2017 for more information.

International Inventories

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Complies</th>
</tr>
</thead>
<tbody>
<tr>
<td>NZIoC</td>
<td></td>
</tr>
<tr>
<td>TSCA</td>
<td></td>
</tr>
<tr>
<td>DSL/NDSL</td>
<td></td>
</tr>
<tr>
<td>EINECS/ELINCS</td>
<td></td>
</tr>
<tr>
<td>ENCS</td>
<td></td>
</tr>
<tr>
<td>IECSC</td>
<td></td>
</tr>
<tr>
<td>KECL</td>
<td></td>
</tr>
<tr>
<td>PICCS</td>
<td></td>
</tr>
<tr>
<td>AICS</td>
<td></td>
</tr>
</tbody>
</table>

Legend:

- NZIoC - New Zealand Inventory of Chemicals
- 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: OTHER INFORMATION

Revision Date 18-Dec-2019

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

Legend

<table>
<thead>
<tr>
<th>Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWA (time-weighted average)</td>
</tr>
<tr>
<td>TWA</td>
</tr>
<tr>
<td>Ceiling</td>
</tr>
<tr>
<td>Maximum limit value</td>
</tr>
<tr>
<td>C</td>
</tr>
<tr>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

STEL (Short Term Exposure Limit)

Disclaimer
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End of Safety Data Sheet