

# SAFETY DATA SHEET

Issuing Date 03-Aug-2020 Revision Date 03-Aug-2020 **Revision Number** 2.01

# 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

311-20000 311-20018 333-60300 333-90300 340-21200 345-10005 345-42005 350-80100 PN (Part Number)

355-02110 355-08110 360-50110 207003-0001 340-41200

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

**Product Safety Department Contact Point** 

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 Harmonised System (GHS)

Label elements

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#### 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

<u>Mixture</u>

Chemical name	CAS No	Weight-%
Acrylonitrile butadiene styrene polymer	9003-56-9	80-100
Non-hazardous ingredients	Proprietary	Balance

## **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: FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media** 

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

Unsuitable extinguishing media None known.

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Specific hazards arising from the chemical

Specific hazards arising from the

None known.

chemical

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.

Use personal protection recommended in Section 8. For emergency responders

**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.

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

Precautions to prevent secondary hazards

Prevent dust cloud. Avoid dust accumulation in enclosed space. May form combustible dust Prevention of secondary hazards

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

Use personal protection equipment. Avoid contact with skin and eyes, when handling Advice on safe 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/PERSONAL PROTECTION

Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational

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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** 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

Physical state Solid

AppearanceMonofilamentOdourNo data available.ColourCharacteristic

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pHNo data availableNone knownMelting point / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone known

Flash point >380 °C

Evaporation rateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability limit: No data available Lower flammability limit No data available

Vapour pressureNo data availableNone knownVapour densityNo data availableNone known

Relative density 1.02 - 1.07 Water solubility Insoluble in water

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone known

Decomposition temperature >350 °C

Kinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone known

**Explosive properties**No information available. **Oxidising properties**No information available.

Other information

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Softening pointNo information availableMolecular weightNo information available

VOC Content (%) negligible

Liquid DensityNo information availableBulk densityNo information availableParticle SizeNo information availableParticle Size DistributionNo information available

# **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** 

Hazardous decomposition products Carbon monoxide. Carbon dioxide (CO2). Aldehydes. Burning produces obnoxious and

toxic fumes.

## 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.

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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 (vapour)

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

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Acrylonitrile butadiene styrene	>5000 mg/kg rat	>2000 mg/kg rabbit	-
polymer			

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.

**Sensitisation** 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.

Chemical name	New Zealand	IARC
Acrylonitrile butadiene styrene polymer - 9003-56-9		Group 3

IARC (International Agency for

Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

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.

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Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

**Bioaccumulation** No information available.

**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

National regulations

**New Zealand** 

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

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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**

Complies **NZIoC TSCA** Complies Complies **DSL/NDSL** Complies **EINECS/ELINCS ENCS** Complies Complies **IECSC** Complies **KECL** Complies **PICCS** Complies **AICS** 

#### 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

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

## **Section 16: OTHER INFORMATION**

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#### **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 Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

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C Carcinogen

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**End of Safety Data Sheet**