

## ABS · Safety Data Sheet

In accordance with paragraph (d) of 29 CFR 1910.1200:2012 Regulation (EU) No. 1907/2006

### Section 1. Chemical Product and Company identification

**Product Name**

Smart3D ABS

**Importer**

Industry Supplies, Inc.  
2035 Sunset Lake Road Newark, Delaware 19702 USA.  
Email: support@smart3d.tech  
USA Emergency Poison Control Hot Line (24/7): 1 (800) 222-1222 or call your LOCAL POISON CONTROL CENTER

### Section 2. Hazards Identification

**Classification of the substance or mixture**

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

**Classification according to Regulation (EC) No 1272/2008 as amended**

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

**Hazard summary**

Not available

**Label elements**

**Label according to Regulation (EC) No. 1272/2008 as amended**

**Hazard pictograms**

None

**Signal word**

None

**Hazard statements**

The mixture does not meet the criteria for classification

**Precautionary statements**

**Prevention**

Not available

**Response**

Not available

**Storage**

Not available

**Disposal**

Not available

**Supplemental label information**

None

**Other hazards**

Not a PBT or vPvB substance or mixture

### Section 3. Composition

**Chemical name**

Acrylonitrile Butadiene Styrene resin

**CAS-No. / EC No.**

9003-56-9

**Product use**

Monofilament for FFF 3D Printing

**REACH Registration No.**

-

**Contens (%)**

90-100

**Other components below reportable levels**

1-<3 %

**Composition comments** The full text for all H-statements is displayed in section 16.

### Section 4. First-Aid Measures

**General information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Skin contact**

If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn. Do not peel polymer from the skin.

**Inhalation**

Not likely, due to the form of the product. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

**Eye contact**

Not likely, due to the form of the product. If hot product contacts eye, flush with water for at least 15 minutes and seek medical attention immediately.

**Ingestion**

Not likely, due to the form of the product.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically

**Most important symptoms and effects, both acute and delayed**

Exposure may cause temporary irritation, redness, or discomfort.

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### Section 5. Fire-fighting measures

#### General fire hazards

No unusual fire or explosion hazards noted

#### Extinguishing media Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire

#### Specific hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

#### Advice for firefighters

##### Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### Special fire fighting procedures

Move containers from fire area if you can do so without risk

#### Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials

### Section 6. Accidental Release Measures

#### Personal Precautions, Protective Equipment and Emergency procedures

##### For non-emergency personnel

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

##### For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

#### Environmental Precautions

Avoid discharge into drains, water courses or onto the ground.

#### Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see section 13 of the SDS.

#### Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

### Section 7. Handling and Storage

#### Precautions for safe handling

Observe good industrial hygiene practices.

#### Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### Specific end use(s)

Not available.

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### Section 8. Exposure Controls / Personal Protection

#### Control parameters

##### Occupational exposure limits

No exposure limits noted for ingredient(s).

##### Biological limit values

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

##### Recommended monitoring procedures

Follow standard monitoring procedures.

##### Derived no effect levels (DNELs)

Not available

##### Predicted no effect concentrations (PNECs)

Not available

#### Exposure controls

##### Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

##### Individual protection measures, such as personal protective equipment

##### General information

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Skin protection

- Hand protection

Wear appropriate chemical resistant gloves.

#### Other

Wear suitable protective clothing.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary

#### Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### Environmental exposure controls

Environmental manager must be informed of all mayor releases.

### Section 9. Physical & Chemical Properties

#### Appearance

Monofilament, spool

#### Vapour pressure

Not available

#### Physical State

Solid

#### Solubility

Not available

#### Odor

Slight

#### Vapour density (Air=1)

Not available

#### pH

Not available

#### Relative density

Not available

#### Melting point/freezing point

>100 °C (>212 °F)

#### Partition coefficient of n-octanol/water

Not available

#### Initial Boiling Point/Boiling Ranges

Not available

#### Autoignition Temperature

Not available

#### Flash point

Not available

#### Decomposition Temperature

>300 °C (> 572 °F)

#### Evapourating Rate

Not available

#### Viscosity

Not available

#### Flammability (solid, gas)

Not available

#### Explosive properties

Not explosive

#### Upper/Lower Flammability or explosive limits

Not available

#### Oxidising properties

Not oxidising

#### Density

1.04g/cm<sup>3</sup>

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### Section 10. Stability & Reactivity

#### Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

#### Chemical stability

Material is stable under normal conditions

#### Possibility of hazardous reaction

No dangerous reaction known under conditions of normal use.

#### Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.

#### Incompatible materials

Strong oxidising agents

#### Hazardous decomposition products

No hazardous decomposition products are known.

### Section 11. Toxicological information

#### General information

Occupational exposure to the substance or mixture may cause adverse effects

#### Information on likely routes of exposure

##### Inhalation

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

##### Ingestion

May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

##### Eye/Skin

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

#### Symptoms

Exposure may cause temporary irritation, redness, or discomfort.

#### Information on toxicological effects

##### Acute toxicity

Not known

##### Skin corrosion/irritation

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

##### Serious eye damage/eye irritation

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

##### Respiratory sensitisation

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

#### Skin sensitisation

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

#### Germ cell mutagenicity

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

#### Carcinogenicity

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

#### Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Not listed.

#### Reproductive toxicity

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

#### Specific target organ toxicity - single exposure

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

#### Specific target organ toxicity - repeated exposure

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

#### Aspiration hazard

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

#### Mixture versus substance information

No information available.

#### Other information

This product has no known effect on human health

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### Section 12. Ecological Information

#### Toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

#### Persistence and Degradability

No data is available on the degradability of any ingredients in the mixture.

#### Bioaccumulative Potential

##### Partition coefficient n-octanol/water (log Kow)

Not available.

#### Bioconcentration factor (BCF)

Not available.

#### Mobility in soil

No data available

#### Results of PBT and vPvB assessment

Not a PBT or vPvB substance or mixture.

#### Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component

### Section 13. Disposal Considerations

#### Waste treatment methods

##### Residual waste

Dispose of in accordance with local regulations

#### Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### EU waste code

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company

#### Disposal methods/information

Collect and reclaim or dispose in sealed containers at licensed waste disposal site

#### Special precautions

Dispose in accordance with all applicable regulations

### Section 14. Transport Information

#### ADR

14.1. - 14.6.: Not regulated as dangerous goods

#### RID

14.1. - 14.6.: Not regulated as dangerous goods.

#### ADN

14.1. - 14.6.: Not regulated as dangerous goods.

#### IATA

14.1. - 14.6.: Not regulated as dangerous goods.

#### IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

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

Not applicable.

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### Section 15. Regulatory Information

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

##### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed

##### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed

##### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed

##### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Not listed

##### Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

##### National regulations

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

##### Chemical safety assessment

No Chemical Safety Assessment has been carried out.

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### Section 16. Other Information

**List of abbreviations**

Not available

**References**

Not available

**Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**Full text of any H-statements not written out in full under Sections 2 to 15**

None

**Revision information**

None

**Training information**

Follow training instructions when handling this material

**Disclaimer:**

This safety data sheet (SDS) is issued based on the latest reference, data etc currently available. The information in this SDS has been carefully assessed, but no guarantee is given for its accuracy. We cannot anticipate all conditions under which this product may be used. It is the user's responsibility to take appropriate safety measures for handling.