

PC-ABS v0 · 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 PC-ABS v0

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

Styrene-acrylonitrile-butadiene - copolymer

CAS-No. / EC No.

24936-68-3

Product use

Monofilament for FFF 3D Printing

REACH Registration No.

-

Contens (%)

-

Chemical name

Polycarbonate

CAS-No. / EC No.

9003-56-9

Product use

Monofilament for FFF 3D Printing

REACH Registration No.

-

Contens (%)

-

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.

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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 (CO₂)

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

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.

Section 9. Physical & Chemical Properties

Appearance

Monofilament, spool

Physical State

Solid

Odor

Slight

pH

Not available

Melting point/freezing point

Not available

Initial Boiling Point/Boiling Ranges

220 - 230 °C (428 - 446 °F)

Flash point

Not available

Evaporating Rate

Not available

Flammability (solid, gas)

Not available

Upper/Lower Flammability or explosive limits

Not available

Vapour pressure

Not available

Solubility

Insoluble

Vapour density (Air=1)

Not available

Relative density

Not available

Partition coefficient of n-octanol/water

Not available

Autoignition Temperature

Not available

Decomposition Temperature

>450 °C (> 842 °F)

Viscosity

Not available

Explosive properties

Not explosive

Oxidising properties

Not oxidising

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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

Not available

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Section 12. Ecological Information

immediately.

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.
Not likely, due to the form of the product.

Ingestion

Persistence and Degradability
Biodegradable in industrial composting facilities.
Most important symptoms and effects, both acute and delayed
Exposure may cause temporary irritation, redness, or discomfort.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically

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

This document has undergone significant changes and should be reviewed in its entirety.

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.