

MATERIAL DATA SAFETY SHEET

Issued in Australia by Bilby 3D Pty Ltd.

The attached Material Data Safety Sheet has been prepared by the manufacturer outside Australia.

In accordance with Australia WHS regulations the following Australian contact details apply

Section 1: AUSTRALIAN COMPANY DETAILS

In Australia the product is imported and distributed by:

Bilby 3D Pty Ltd

Mailing Address : PO Box 62 BEGA NSW 2550

Head Office Address : 452 Wyndham Lane Kanoona NSW 2550

Contact Phone: 1800 847 333

Section 2: AUSTRALIAN EMERGENCY CONTACT

Emergency Contact

In the event of an emergency please contact:

Poisons Information Centre 24 hour Telephone Advice Line on 13 11 26

Section 3: AUSTRALIAN ISSUE DATA

Date of Issue : 1 March 2020

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Revision Date: 04/11/2016

SDS Number: RF160

Version: 1.0

Product identifier

Product name : BILBY 3D ABSI (ABS Industrial)

Product code : ABSI

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet Guangzhou Yousu 3D Technology Co. Ltd. 4th Floor, Building B, Chuangtian Industrial Park, Lanshan Village, Xiancun Town, ZengCheng District, Guangzhou, Guangdong, China	Emergency telephone number +86-020-32093406
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Identified use : Plastics which can be used for 3D printing

GHS Classification

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

GHS label elements

Hazard Statement: None required

Precautionary Statement: None

Signal word: None

Pictogram: None

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 and 8 for additional information.

Hazardous components

Chemical name and CAS	Content %	OSHA Exposure Limits	ACGIH Exposure Limits
Acrylonitrile Butadiene Styrene, (CAS No.:9003-56-9)	≤100	None	None

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Acrylonitrile (CAS No.:107-13-1)	≤0.1	None	None
Butadiene (CAS No.:106-99-0)	≤0.1	None	None
Styrene (CAS No.:100-42-5)	≤0.1	None	None

- If inhaled : Essentially no fumes will be released from heated material, if respiratory irritation occurred immediately remove a person to fresh air and consult a doctor.
- In case of skin contact : Contact with heated material, rinse the skin with water and soap for at least 15 minutes. If symptoms persist, consult a doctor.
- In case of eye contact : Contact with material, rinse opened eye for at least 15 minutes with plenty of water. If symptoms persist, consult a doctor.
- If swallowed : Drink water as a precaution. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Call a physician immediately.
- Notes to physician : Treat symptomatically.
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- Suitable extinguishing media : Foam, Water, Carbon dioxide (CO₂), Dry chemical, Alcohol resistant foams are preferred if available. General-purpose synthetic foams (including AFFF) or protein foams may function, but much less effectively.
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Burning produces hydrogen cyanide (HCN), acrylonitrile (AN), [styrene](#) (SM), carbon monoxide (CO), carbon dioxide (CO₂), Nitric oxide (NO).
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
Remove the flammability.

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- Under fire conditions : Cool containers / tanks with water spray. Water mist may be used to cool closed containers. Fine dust dispersed in air may ignite. Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges.
- Special protective equipment for firefighters : As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

≥400°C

Autoignition temperature

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Avoid contact with skin and eyes. Avoid dust formation. Remove all sources of ignition. Sweep up to prevent slipping hazard.
- Environmental precautions : Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

- Methods and materials for containment and cleaning up : Clean up promptly by scoop or vacuum. Sweep up and shovel into suitable containers for disposal.

- Advice on safe handling : Use personal protective equipment. Avoid contact with skin and eyes. Low hazard for usual industrial or commercial handling. Workers should be protected from the possibility of contact with molten material during fabrication. Avoid dust formation. If small particles are generated during further processing, handling, or by other means, combustible dust concentrations in air may form.

- Conditions for safe storage : Keep cool and dryplace. No special restrictions on storage with other products.

- Materials to avoid : Avoid fire , dust and electrostatic.

Exposure measures :

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Provide appropriate exhaust ventilation at places where dust is formed.

Engineering measures : Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Provide appropriate exhaust ventilation at places where dust is formed.

Personal protective equipment

Respiratory protection : Respirator must be worn if exposed to dust. Wear respirator with dust filter. Consult an industrial hygiene professional prior to respirator selection and use. Use a positive-pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

Eye protection : Safety glasses with side-shields. Goggles.

Skin and body protection : Impervious clothing.

Breath protection : Use a mask when printing.

Physical state : Solid
Odour : None
Diameter : 1.75/2.85mm
Softening temperature : 104°C
Molecular weight : 100,000~200,000
Density : 1.04g/cm³
Water solubility : Insoluble

Reactivity : None expected under conditions of normal use.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Product will not undergo hazardous polymerization.
Conditions to avoid : High temperature and fire.

Incompatible materials : Oxidizing agents, Strong bases, Organic solvent
Hazardous Burning produces hydrogen cyanide (HCN),
decomposition products acrylonitrile (AN), [styrene](#) (SM), carbon monoxide (CO), carbon dioxide (CO2), Nitric oxide (NO).

Information on likely routes of exposure : Inhalation
Skin contact
Eye Contact
Ingestion

Acute toxicity

There were no target organ effects noted following ingestion or dermal exposure in animal studies.

Skin corrosion/irritation/

Decomposition of smoke and gas may be irritating to eyes, skin and respiratory system.

Serious eye damage/eye irritation

Product dust may be irritating to eyes, skin and respiratory system. Resin particles, like other inert materials, are mechanically irritating to eyes..

Respiratory or skin sensitisation

Product dust may be irritating to eyes, skin and respiratory system.

Germ cell mutagenicity

Not mutagenic in AMES Test..

Carcinogenicity

None of the components of this product are listed as carcinogens by IARC, NTP, or OSHA.

Reproductive toxicity

No data is available on the product itself

STOT - single exposure

There were no target organ effects noted following ingestion or dermal exposure in animal studies.

STOT - repeated exposure

There were no target organ effects noted following ingestion or dermal exposure in

animal studies.

Aspiration toxicity

Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough. Burning produces irritant fumes.

Further information

Carcinogenicity:

IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : EC50/72h/algae > 1100 mg/L

Persistence and degradability

Unlikely degradable under industrial composting conditions

Disposal method

General advice : In accordance with local and national regulations. Should not be released into the environment. Do not contaminate ponds, waterways or ditches with chemical or used container. Contact manufacturer.

Contaminated packaging : Empty remaining contents. Do not re-use empty containers. Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal.

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International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIAR Y HAZARDS	PACKIN G GROUP	MARINE POLLUTAN T / LTD. QTY.
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U.S. DOT - ROAD

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant	no
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SARA 311/312 Hazards : No SARA Hazards

SARA 313 Component(s) : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory
 DSL : All components of this product are on the Canadian DS
 AUSTR : On the inventory, or in compliance with the

ENCS	inventory : On the inventory, or in compliance with the inventory
KECL	: On the inventory, or in compliance with the inventory
PHIL	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

Further information

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Further information

To the best of our knowledge, the information herein is accurate, However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. All material may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.