

# **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

## MATERIAL SAFETY DATA SHEET

Bilby 3D Pty Ltd  
PO BOX 62, BEGA NSW 2550 Ph 1800 847 333 www.bilby3d.com.au

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### Product identifier

Product name : Bilby ABS  
Product code ABS175<colour><weight>

### Recommended use of the chemical and restrictions on use

<b>Details of the supplier of the safety data sheet</b> Guangzhou Yousu 3D Technology Co. Ltd. 4th Floor, Building B, Chuangtian Industrial Park, Lanshan Village, Xiancun Town, ZengCheng District, Guangzhou, Guangdong, China	<b>Emergency telephone number</b> +86-020-32093406
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Identified use : Thermoplastics 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.

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**Hazardous components**

Chemical name and CAS	Content %	OSHA Exposure Limits:	ACGIH Exposure Limits:
Acrylonitrile-Butadiene-Styrene Copolymer (CAS No: 9003-56-9)	>98	None	None
Additive	<2	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.
- Suitable extinguishing media : Foam, Water, Carbon dioxide (CO<sub>2</sub>), 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.

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- Hazardous combustion products : Burning produces obnoxious and toxic fumes, hydrogen cyanide (HCN), acrylonitrile (AN), [styrene](#) (SM), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), Nitric oxide (NO).
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.  
Remove the flammability.
- 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.
- 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.

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Conditions for safe storage : Store at cool, ventilated cool and ventilated place. No special restrictions on storage with other products.

Materials to avoid : No special precautions required.

### Exposure limits :

None established. This material can generate Particulates Not Otherwise Classifiable (PNOC). The Occupational Safety and Health Administration (OSHA) PEL/TWA for PNOC is 15 mg/m<sup>3</sup> for total dust and 5 mg/m<sup>3</sup> for the respirable fraction. The American Conference of Governmental Industrial Hygienists (ACGIH) TLV/TWA for PNOC is 10 mg/m<sup>3</sup> for inhalable particulates and 3 mg/m<sup>3</sup> for respirable particulates.

**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.

Hygiene measures : Observe good industrial hygiene practices.  
Avoid contact with skin, eyes and clothing.

Physical state : Solid

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Odour : None  
Diameter : 1.75/2.85mm  
Autoignition temperature : 466°C  
Explosion limits : 45g/m<sup>3</sup>  
Flash point : 404°C  
Upper explosion limit : 7×10<sup>5</sup>pa  
Lowest ignition energy : 3.6mJ

Maximum explosion pressure rise : 3.2×10<sup>7</sup>pa/s  
Density : 1.05g/cm<sup>3</sup>  
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.

Incompatible materials : Oxidizing agents, Strong bases  
Hazardous decomposition products : Burning produces obnoxious and toxic fumes, hydrogen cyanide (HCN), acrylonitrile (AN), [styrene](#) (SM), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), 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/

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

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### **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.

## **Ecotoxicity**

### **Product:**

Ecotoxicology Assessment

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

### **Persistence and degradability**

Inherently biodegradable under industrial composting conditions

### **Bioaccumulative potential**

Not expected to bioconcentrate or bioaccumulate.

## **Disposal methods**

General advice : In accordance with local and national regulations.  
Should not be released into the environment. Do

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not contaminate ponds, waterways or ditches with chemical or used container. Contact manufacturer.

Contaminated packaging

: Empty containers should be transported/delivered using a registered waste carrier to local recyclers for disposal.

**International transport regulations**

**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / 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** : This material does not contain any chemical  
**Component(s)SARA** components with known CAS numbers that exceed  
**313** 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  
DSL  
AUSTR : On the inventory, or in compliance with the  
inventory  
ENCS : 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), KECL (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

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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.