

Issuing Date 19-Nov-2021

Revision Date 19-Nov-2021

Revision Number 1

## Section 1: Identification: Product identifier and chemical identity

### Product identifier

**Product Name** MB-SDS-ABS-R-NRL  
**Product Code(s)** MB-SDS-ABS-R-NRL UE U NAT  
**PN (Part Number)** 375-0070

### Other means of identification

**Pure substance/mixture** Mixture

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

**Recommended Use** 3D Printing  
**Uses advised against** Do not use in printers where temperatures exceed 350°C

### Details of manufacturer or importer

#### Manufacturer

MakerBot Industries LLC  
One MetroTech Center, 21st Floor  
Brooklyn, NY 11201  
USA  
1 347 334 6800

#### Importer

Alloys  
40 Koornang Rd  
Scoresby VIC 3179, Australia  
PH 03 9415 8888  
FAX 03 9415 8889

#### Importer

TCL Hofmann  
VIC - Braeside  
150 Woodlands Drive  
Braeside VIC 3195  
Australia  
Phone: +613 8586 2900  
Fax: +613 9580 8322

For further information, please contact

**E-mail address** info@Stratasys.com

### Emergency telephone number

Emergency telephone number +61 2 8014 4558 - Australia - English Language response

## Section 2: Hazard(s) identification

### GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Label elements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

### Other hazards which do not result in classification

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.

### Section 3: Composition and information on ingredients, in accordance with Schedule 8

#### Substance

Not applicable

#### Mixture

Chemical name	CAS No	Weight-%
Non-hazardous ingredients	Proprietary	Balance

### Section 4: First aid measures

#### Description of first aid measures

<b>Inhalation</b>	No hazards which require special first aid measures. Move to fresh air in case of accidental inhalation of vapours or decomposition products. Get medical attention.
<b>Eye contact</b>	No hazards which require special first aid measures. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.
<b>Skin contact</b>	No hazards which require special first aid measures. If skin irritation or rash occurs: Get medical advice/attention.
<b>Ingestion</b>	IF SWALLOWED. Rinse mouth thoroughly with water. Get immediate medical advice/attention.

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

**Symptoms** Molten material may cause thermal burns.

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

**Note to physicians** Treat symptomatically.

### Section 5: Firefighting measures

#### Suitable Extinguishing Media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

#### Specific hazards arising from the chemical

**Specific hazards arising from the chemical** No information available.

#### 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**

<b>Personal precautions</b>	Ensure adequate ventilation.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.

**Environmental precautions**

<b>Environmental precautions</b>	See Section 12 for additional Ecological Information.
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**Methods and material for containment and cleaning up**

<b>Methods for containment</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Methods for cleaning up</b>	Pick up and transfer to properly labelled containers.

**Precautions to prevent secondary hazards**

<b>Prevention of secondary hazards</b>	Handle in accordance with good industrial hygiene and safety practice.
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**Section 7: Handling and storage, including how the chemical may be safely used****Precautions for safe handling**

<b>Advice on safe handling</b>	Handle in accordance with good industrial hygiene and safety practice.
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**Conditions for safe storage, including any incompatibilities**

<b>Storage Conditions</b>	Keep tightly closed in a dry and cool place.
<b>Incompatible materials</b>	None known based on information supplied.

**Section 8: Exposure controls and personal protection**

**Note:** No hazards are expected under normal use. Avoid generation of dust particles.

**Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

<b>Engineering controls</b>	Showers Eyewash stations Ventilation systems.
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**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	No special protective equipment required.
<b>Skin and body protection</b>	When handling hot material, use heat resistant gloves.
<b>Respiratory protection</b>	Minimise dust generation and accumulation. Wear respiratory protection.
<b>Environmental exposure controls</b>	No information available.

**Section 9: Physical and chemical properties**

**Information on basic physical and chemical properties**

<b>Physical state</b>	Solid
<b>Appearance</b>	Monofilament
<b>Odour</b>	Slight.
<b>Colour</b>	Natural colour
<b>Odour threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	No data available	None known
<b>Melting point / freezing point</b>	160 °C	
<b>Boiling point / boiling range</b>	No data available	None known
<b>Flash point</b>	No data available	None known
<b>Evaporation rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit:</b>	No data available	
<b>Lower flammability limit</b>	No data available	
<b>Vapour pressure</b>	No data available	None known
<b>Vapour density</b>	No data available	None known
<b>Relative density</b>	No data available	None known
<b>Water solubility</b>	Insoluble in water	
<b>Solubility(ies)</b>	No data available	None known
<b>Partition coefficient</b>	No data available	None known
<b>Autoignition temperature</b>	No data available	None known
<b>Decomposition temperature</b>	>350 °C	
<b>Kinematic viscosity</b>	No data available	None known
<b>Dynamic viscosity</b>	No data available	None known

**Other information**

<b>Softening point</b>	> 100 °C
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Liquid Density</b>	No information available
<b>Bulk density</b>	No information available
<b>Particle Size</b>	No information available
<b>Particle Size Distribution</b>	No information available

<b>Section 10: Stability and reactivity</b>
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**Reactivity**

**Reactivity** Stable under recommended storage conditions.

**Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**Conditions to avoid**

**Conditions to avoid** None known based on information supplied.

**Incompatible materials**

**Incompatible materials** None known based on information supplied.

**Hazardous decomposition products**

**Hazardous decomposition products** Burning produces obnoxious and toxic fumes. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Aldehydes.

**Section 11: Toxicological information****Acute toxicity****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

**Symptoms** No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

**Unknown acute toxicity** 10 % of the mixture consists of ingredient(s) of unknown toxicity  
 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity  
 10 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity  
 10 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 10 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour)  
 10 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

*See section 16 for terms and abbreviations*

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Respiratory or skin sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

## Section 12: Ecological information

### Ecotoxicity

**Ecotoxicity** The environmental impact of this product has not been fully investigated

### 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

### Disposal methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Not applicable.

## Section 14: Transport information

**ADG** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

**Transport in bulk according to Annex II of MARPOL 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

##### Australia

See section 8 for national exposure control parameters

**International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AIIC</b>	Complies

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**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  
**AIIC** - Australian Inventory of Industrial Chemicals

**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: Any other relevant information****Prepared By**

TSCA;  
[http://iaspub.epa.gov/sor\\_internet/registry/substreg/searchandretrieve/searchbylist/search.d](http://iaspub.epa.gov/sor_internet/registry/substreg/searchandretrieve/searchbylist/search.d)  
 IECSC; <http://cciss.cirs-group.com/>  
 EU Regulation 1272/2008  
 TOMES-LOLI®; <http://www.rightanswerknowledge.com/loginRA.asp>  
 UN Recommendations on the transport of dangerous goods 19th Edition  
 IARC Monographs on the Evaluation of Carcinogenic Risks to Humans;  
<http://monographs.iarc.fr>  
 ECHA CHEM;  
<http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>  
 OECD SIDS; <http://webnet.oecd.org/Hpv/UI/Search.aspx>  
 EPA; <http://www.epa.gov/iris>  
 EPISUITE Program ver.4.1  
 NIOSH (The National Institute for Occupational Safety and Health)  
 ACGIH (American Conference of Governmental Industrial Hygienists)  
 Waste Control Act enforcement regulation attached [1]  
 National chemicals information systems; <http://ncis.nier.go.kr>  
 Korea National Fire Agency-Korea dangerous material inventory management system;  
<http://hazmat.mpss.kfi.or.kr/material.do>  
 Korea Ministry of Employment and Labor Public Notice No. 2020-130  
 Korea Ministry of Employment and Labor Public Notice No. 2020-48

**Revision Date**

19-Nov-2021

**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
C	Carcinogen		

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**End of Safety Data Sheet**