

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## Capture enhancement reagent



Version	Revision Date:	SDS Number:	Date of last issue: 2016/10/27
1.13	2019/12/17	100000010878	Date of first issue: 2015/09/22

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Capture enhancement reagent  
Substance name : Capture enhancement reagent  
7037  
Chemical nature : Liquid

#### Manufacturer or supplier's details

Company : Menarini Silicon Biosystems, Inc.

Address : 3401 Masons Mill Rd #100  
Huntingdon Valley, PA  
19006 USA

Telephone : 1 (800) 381-4929

**Emergency telephone number** : **US : (303)-389-1805**  
**International: +1 (303)-389-1805**

E-mail address : Us-info@siliconbiosystems.com  
Responsible/issuing person

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

Recommended use : Assay reagent

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

<b>Appearance</b>	: liquid
<b>Colour</b>	: clear
<b>Odour</b>	: No data available

Not a hazardous substance or mixture.

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

#### Physical and chemical hazards

Not classified based on available information.

#### Health hazards

Not classified based on available information.

#### Environmental hazards

Not classified based on available information.

#### Other hazards which do not result in classification

None known.

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## Capture enhancement reagent



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Date of first issue: 2015/09/22

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
sodium azide	26628-22-8	$\geq 0.1$ - $< 0.25$

### 4. FIRST AID MEASURES

If inhaled : If breathed in, move person into fresh air.  
Consult a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with plenty of water.  
If symptoms persist, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 5 minutes.  
Remove contact lenses.  
If eye irritation persists, consult a specialist.

If swallowed : If swallowed, rinse mouth with water (only if the person is con-  
scious).  
Call a physician immediately.

Most important symptoms and effects, both acute and delayed : No information available.

Notes to physician : Treat symptomatically.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-  
cumstances and the surrounding environment.

Specific hazards during fire-  
fighting : No information available.

Specific extinguishing meth-  
ods : No information available.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-  
tive equipment and emer- : In the event of an accidental release the emergency response  
team must respond based on a risk assessment and use per-

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gency procedures                      sonal protective equipment as appropriate.

Environmental precautions      :    Should not be released into the environment.

Methods and materials for containment and cleaning up      :    Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers.  
Small spills: Gently cover the spill with an absorbent towel or pad.  
Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposal considerations".

### 7. HANDLING AND STORAGE

#### Handling

Advice on protection against fire and explosion      :    No data available

Advice on safe handling              :    To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.

Avoidance of contact                  :    Oxidizing agents

#### Storage

Conditions for safe storage          :    To maintain product quality, do not store in heat or direct sunlight. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.

Recommended storage temperature      :    2 - 8 °C

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sodium azide	26628-22-8	MAC	0.3 mg/m <sup>3</sup>	GBZ 2.1-2007
		C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH
		C	0.29 mg/m <sup>3</sup> (Sodium azide)	ACGIH

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**Engineering measures** : All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

### Personal protective equipment

**Respiratory protection** : Engineering controls should always be the primary method of controlling exposures.  
If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present.  
No personal respiratory protective equipment normally required.

**Eye/face protection** : No special precautions required.

**Skin and body protection** : No special precautions required.

**Hand protection**

**Remarks** : Disposable gloves

**Protective measures** : The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : liquid  
**Colour** : clear  
**Odour** : No data available

## 10. STABILITY AND REACTIVITY

**Reactivity** : None reasonably foreseeable.  
**Chemical stability** : Stable under recommended storage conditions.  
**Possibility of hazardous reactions** : No dangerous reaction known under conditions of normal use.  
**Conditions to avoid** : To avoid thermal decomposition, do not overheat.  
**Incompatible materials** : Oxidizing agents

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## Capture enhancement reagent



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Hazardous decomposition products : None known.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

##### Components:

##### **sodium azide:**

Acute oral toxicity : LD50 (Rat): 27 mg/kg

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

No data available

#### Reproductive toxicity

No data available

#### STOT - single exposure

No data available

#### STOT - repeated exposure

No data available

#### Repeated dose toxicity

No data available

#### Aspiration toxicity

No data available

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **sodium azide:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.7 mg/l  
Exposure time: 96 h

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## Capture enhancement reagent



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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 4.2 mg/l  
Exposure time: 96 h

Toxicity to algae : IC50: 272 mg/l

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 38.5 mg/l

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : In accordance with National, Federal, State and Local regulations.

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

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## 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

### National Regulations

#### GB 6944/12268

Not regulated as a dangerous good

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## Capture enhancement reagent



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### 15. REGULATORY INFORMATION

#### National regulatory information

**Restricted to professional users.**

**Law on the Prevention and Control of Occupational Diseases**

### 16. OTHER INFORMATION

#### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Date format : yyyy/mm/dd  
Numbers 123,456.78

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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CN / EN



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## PBS/Biotin



Version	Revision Date:	SDS Number:	Date of last issue: 2016/10/27
1.13	2019/12/17	100000010966	Date of first issue: 2015/09/22

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PBS/Biotin  
Substance name : PBS/Biotin  
7044  
Chemical nature : Liquid

#### Manufacturer or supplier's details

Company : Menarini Silicon Biosystems, Inc.

Address : 3401 Masons Mill Rd #100  
Huntingdon Valley, PA  
19006 USA

Telephone : 1 (800) 381-4929

Emergency telephone number : **US : (303)-389-1805**  
**International: +1 (303)-389-1805**

E-mail address : Us-info@siliconbiosystems.com  
Responsible/issuing person

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

Recommended use : Assay reagent

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

<b>Appearance</b>	: liquid
<b>Colour</b>	: clear
<b>Odour</b>	: odourless

Not a hazardous substance or mixture.

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

#### Physical and chemical hazards

Not classified based on available information.

#### Health hazards

Not classified based on available information.

#### Environmental hazards

Not classified based on available information.

#### Other hazards which do not result in classification

None known.

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## PBS/Biotin



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Date of first issue: 2015/09/22

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
sodium azide	26628-22-8	$\geq 0.1$ - $< 0.25$

### 4. FIRST AID MEASURES

If inhaled : If breathed in, move person into fresh air.  
Consult a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with plenty of water.  
If symptoms persist, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 5 minutes.  
Remove contact lenses.  
If eye irritation persists, consult a specialist.

If swallowed : If swallowed, rinse mouth with water (only if the person is con-  
scious).  
Call a physician immediately.

Most important symptoms and effects, both acute and delayed : No information available.

Notes to physician : Treat symptomatically.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-  
cumstances and the surrounding environment.

Specific hazards during fire-  
fighting : No information available.

Specific extinguishing meth-  
ods : No information available.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-  
tive equipment and emer- : In the event of an accidental release the emergency response  
team must respond based on a risk assessment and use per-

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## PBS/Biotin



Version 1.13      Revision Date: 2019/12/17      SDS Number: 100000010966      Date of last issue: 2016/10/27  
Date of first issue: 2015/09/22

gency procedures                      sonal protective equipment as appropriate.

Environmental precautions      :    Should not be released into the environment.

Methods and materials for containment and cleaning up      :    Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers.  
Small spills: Gently cover the spill with an absorbent towel or pad.  
Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposal considerations".

### 7. HANDLING AND STORAGE

#### Handling

Advice on protection against fire and explosion      :    No data available

Advice on safe handling              :    To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.

Avoidance of contact                  :    None known.

#### Storage

Conditions for safe storage          :    To maintain product quality, do not store in heat or direct sunlight. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.

Recommended storage temperature      :    2 - 8 °C

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sodium azide	26628-22-8	MAC	0.3 mg/m <sup>3</sup>	GBZ 2.1-2007
		C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH
		C	0.29 mg/m <sup>3</sup> (Sodium azide)	ACGIH

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## PBS/Biotin



Version	Revision Date:	SDS Number:	Date of last issue: 2016/10/27
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**Engineering measures** : All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

### Personal protective equipment

**Respiratory protection** : Engineering controls should always be the primary method of controlling exposures.  
If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present.  
No personal respiratory protective equipment normally required.

**Eye/face protection** : No special precautions required.

**Skin and body protection** : No special precautions required.

**Hand protection**

**Remarks** : Disposable gloves

**Protective measures** : The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : liquid

**Colour** : clear

**Odour** : odourless

## 10. STABILITY AND REACTIVITY

**Reactivity** : None reasonably foreseeable.

**Chemical stability** : Stable under recommended storage conditions.

**Possibility of hazardous reactions** : No dangerous reaction known under conditions of normal use.

**Conditions to avoid** : To avoid thermal decomposition, do not overheat.

**Incompatible materials** : None known.

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## PBS/Biotin



Version	Revision Date:	SDS Number:	Date of last issue: 2016/10/27
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Hazardous decomposition products : None known.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

##### Components:

##### **sodium azide:**

Acute oral toxicity : LD50 (Rat): 27 mg/kg

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

No data available

#### Reproductive toxicity

No data available

#### STOT - single exposure

No data available

#### STOT - repeated exposure

No data available

#### Repeated dose toxicity

No data available

#### Aspiration toxicity

No data available

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **sodium azide:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.7 mg/l  
Exposure time: 96 h

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according to GB/T 16483 and GB/T 17519

## PBS/Biotin



Version	Revision Date:	SDS Number:	Date of last issue: 2016/10/27
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Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 4.2 mg/l  
Exposure time: 96 h

Toxicity to algae : IC50: 272 mg/l

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 38.5 mg/l

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No data available

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : In accordance with National, Federal, State and Local regulations.

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

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## 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

### National Regulations

#### GB 6944/12268

Not regulated as a dangerous good

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## PBS/Biotin



Version	Revision Date:	SDS Number:	Date of last issue: 2016/10/27
1.13	2019/12/17	100000010966	Date of first issue: 2015/09/22

### 15. REGULATORY INFORMATION

#### National regulatory information

**Restricted to professional users.**

**Law on the Prevention and Control of Occupational Diseases**

### 16. OTHER INFORMATION

#### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Date format : yyyy/mm/dd  
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#### Disclaimer

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## PBS/Biotin



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CN / EN



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## Anti-EpCAM ferrofluid



Version	Revision Date:	SDS Number:	Date of last issue: 2016/11/15
1.11	2019/12/17	100000010880	Date of first issue: 2015/09/21

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Anti-EpCAM ferrofluid  
Substance name : Anti-EpCAM ferrofluid  
7036  
Chemical nature : Liquid

#### Manufacturer or supplier's details

Company : Menarini Silicon Biosystems, Inc.

Address : 3401 Masons Mill Rd #100  
Huntingdon Valley, PA  
19006 USA

Telephone : 1 (800) 381-4929

**Emergency telephone number** : **US : (303)-389-1805**  
**International: +1 (303)-389-1805**

E-mail address : Us-info@siliconbiosystems.com  
Responsible/issuing person

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

Recommended use : Assay reagent

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

<b>Appearance</b>	: liquid
<b>Colour</b>	: brown
<b>Odour</b>	:

Not a hazardous substance or mixture.

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

#### Physical and chemical hazards

Not classified based on available information.

#### Health hazards

Not classified based on available information.

#### Environmental hazards

Not classified based on available information.

#### Other hazards which do not result in classification

None known.

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## Anti-EpCAM ferrofluid



Version 1.11      Revision Date: 2019/12/17      SDS Number: 100000010880      Date of last issue: 2016/11/15  
Date of first issue: 2015/09/21

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Anti-EpCAM mouse mAb conjugated to Ferrofluid	Not Assigned	< 0.1

### 4. FIRST AID MEASURES

If inhaled : If breathed in, move person into fresh air.  
Consult a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off immediately with plenty of water.  
If symptoms persist, call a physician.  
Wash contaminated clothing before re-use.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 5 minutes.  
Remove contact lenses.  
If eye irritation persists, consult a specialist.

If swallowed : If swallowed, rinse mouth with water (only if the person is con-  
scious).  
Call a physician immediately.

Most important symptoms and effects, both acute and delayed : No information available.

Notes to physician : Treat symptomatically.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-  
cumstances and the surrounding environment.

Specific hazards during fire-fighting : No information available.

Specific extinguishing meth-ods : No information available.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

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according to GB/T 16483 and GB/T 17519

## Anti-EpCAM ferrofluid



Version 1.11      Revision Date: 2019/12/17      SDS Number: 100000010880      Date of last issue: 2016/11/15  
Date of first issue: 2015/09/21

- Personal precautions, protective equipment and emergency procedures : In the event of an accidental release the emergency response team must respond based on a risk assessment and use personal protective equipment as appropriate.
- Environmental precautions : Should not be released into the environment.
- Methods and materials for containment and cleaning up : Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers.  
Small spills: Gently cover the spill with an absorbent towel or pad.  
Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposal considerations".

### 7. HANDLING AND STORAGE

#### Handling

- Advice on protection against fire and explosion : No data available
- Advice on safe handling : To avoid thermal decomposition, do not overheat. Avoid inhalation, ingestion and contact with skin and eyes. Use personal protective equipment as required.
- Avoidance of contact : None known.

#### Storage

- Conditions for safe storage : To maintain product quality, do not store in heat or direct sunlight. Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up. Keep refrigerated.
- Recommended storage temperature : 2 - 8 °C

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Anti-EpCAM mouse mAb conjugated to Ferrofluid	Not Assigned	PBOEL-HHC	2	J&J OEL/PBOEL HHC
Further information: J&J has a hazard banding notation: PBOEL HHC. This substance is classified by J&J as being PBOEL HHC 2.				

# SAFETY DATA SHEET

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	This means that the OEL is estimated to be from 20 to 100 µg/m <sup>3</sup>
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**Engineering measures** : All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

### Personal protective equipment

**Respiratory protection** : Engineering controls should always be the primary method of controlling exposures.  
If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present.  
No personal respiratory protective equipment normally required.

**Eye/face protection** : No special precautions required.

**Skin and body protection** : No special precautions required.

**Hand protection**

Remarks : Disposable gloves

**Protective measures** : The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : brown

pH : 7.5

Solubility(ies)  
Water solubility : soluble

## 10. STABILITY AND REACTIVITY

Reactivity : None reasonably foreseeable.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

# SAFETY DATA SHEET

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## Anti-EpCAM ferrofluid



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Conditions to avoid : To avoid thermal decomposition, do not overheat.

Incompatible materials : None known.

Hazardous decomposition products : None known.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

No data available

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

No data available

#### Reproductive toxicity

No data available

#### STOT - single exposure

No data available

#### STOT - repeated exposure

No data available

#### Repeated dose toxicity

No data available

#### Aspiration toxicity

No data available

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

No data available

#### Persistence and degradability

No data available

#### Bioaccumulative potential

No data available

#### Mobility in soil

No data available

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## Anti-EpCAM ferrofluid



Version	Revision Date:	SDS Number:	Date of last issue: 2016/11/15
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### Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : In accordance with National, Federal, State and Local regulations.

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

## 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

Not regulated as a dangerous good

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

### National Regulations

#### GB 6944/12268

Not regulated as a dangerous good

## 15. REGULATORY INFORMATION

### National regulatory information

Restricted to professional users.

Law on the Prevention and Control of Occupational Diseases

## 16. OTHER INFORMATION

### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada);

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ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Date format : yyyy/mm/dd  
Numbers 123,456.78

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## Dilution buffer



Version	Revision Date:	SDS Number:	Date of last issue: 2016/10/27
1.12	2019/12/17	100000010879	Date of first issue: 2015/09/22

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Dilution buffer  
Substance name : Dilution buffer  
7039  
Chemical nature : Liquid

#### Manufacturer or supplier's details

Company : Menarini Silicon Biosystems, Inc.

Address : 3401 Masons Mill Rd #100  
Huntingdon Valley, PA  
19006 USA

Telephone : 1 (800) 381-4929

Emergency telephone number : **US : (303)-389-1805**  
**International: +1 (303)-389-1805**

E-mail address : Us-info@siliconbiosystems.com  
Responsible/issuing person

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

Recommended use : Assay reagent

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance	: liquid
Colour	: clear
Odour	: odourless

Not a hazardous substance or mixture.

#### GHS Classification

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

#### Physical and chemical hazards

Not classified based on available information.

#### Health hazards

Not classified based on available information.

#### Environmental hazards

Not classified based on available information.

#### Other hazards which do not result in classification

None known.



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## Dilution buffer



Version 1.12      Revision Date: 2019/12/17      SDS Number: 100000010879      Date of last issue: 2016/10/27  
Date of first issue: 2015/09/22

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
sodium azide	26628-22-8	$\geq 0.1$ - $< 0.25$

### 4. FIRST AID MEASURES

If inhaled : If breathed in, move person into fresh air.  
Consult a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with plenty of water.  
If symptoms persist, call a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 5 minutes.  
Remove contact lenses.  
If eye irritation persists, consult a specialist.

If swallowed : If swallowed, rinse mouth with water (only if the person is con-  
scious).  
Call a physician immediately.

Most important symptoms and effects, both acute and delayed : No information available.

Notes to physician : Treat symptomatically.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local cir-  
cumstances and the surrounding environment.

Specific hazards during fire-  
fighting : No information available.

Specific extinguishing meth-  
ods : No information available.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec-  
tive equipment and emer- : In the event of an accidental release the emergency response  
team must respond based on a risk assessment and use per-

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## Dilution buffer



Version 1.12      Revision Date: 2019/12/17      SDS Number: 100000010879      Date of last issue: 2016/10/27  
Date of first issue: 2015/09/22

gency procedures                      sonal protective equipment as appropriate.

Environmental precautions      :    Should not be released into the environment.

Methods and materials for      :    Large spills: Dam up. Soak up with inert absorbent material.  
containment and cleaning up      Keep in properly labelled containers.  
   Small spills: Gently cover the spill with an absorbent towel or  
   pad.  
   Large spills + Small spills: Keep in suitable, closed containers  
   for disposal. Treat recovered material as described in the sec-  
   tion "Disposal considerations".

### 7. HANDLING AND STORAGE

#### Handling

Advice on protection against      :    No data available  
fire and explosion

Advice on safe handling            :    To avoid thermal decomposition, do not overheat.  
   Avoid inhalation, ingestion and contact with skin and eyes.  
   Use personal protective equipment as required.

Avoidance of contact                :    Oxidizing agents

#### Storage

Conditions for safe storage        :    To maintain product quality, do not store in heat or direct sun-  
   light.  
   Store in original container.  
   Keep containers tightly closed in a dry, cool and well-  
   ventilated place.  
   Keep away from heat and sources of ignition.  
   Keep locked up.  
   Keep refrigerated.

Recommended storage tem-      :    2 - 8 °C  
perature

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control param- eters / Permissible concentration	Basis
sodium azide	26628-22-8	MAC	0.3 mg/m <sup>3</sup>	GBZ 2.1-2007
		C (Vapour)	0.11 ppm (Hydrazoic acid)	ACGIH
		C	0.29 mg/m <sup>3</sup> (Sodium azide)	ACGIH

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**Engineering measures** : All personal protective equipment should be based on a risk assessment. Consult a Environment Health Safety expert if necessary.

### Personal protective equipment

**Respiratory protection** : Engineering controls should always be the primary method of controlling exposures.  
If respiratory protective equipment is needed for certain activities, the type as well as the corresponding protection factor will depend upon the risk assessment and air concentrations, hazards, physical and warning properties of substances present.  
No personal respiratory protective equipment normally required.

**Eye/face protection** : No special precautions required.

**Skin and body protection** : No special precautions required.

**Hand protection**

**Remarks** : Disposable gloves

**Protective measures** : The type of protective equipment must be selected based on the Environmental Health and Safety risk assessment. Consult a Environmental Health and Safety expert if necessary.

**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : liquid

**Colour** : clear

**Odour** : odourless

**pH** : 7.5

**Solubility(ies)**  
**Water solubility** : soluble

## 10. STABILITY AND REACTIVITY

**Reactivity** : None reasonably foreseeable.

**Chemical stability** : Stable under recommended storage conditions.

**Possibility of hazardous reactions** : No dangerous reaction known under conditions of normal use.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519

## Dilution buffer



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Conditions to avoid : To avoid thermal decomposition, do not overheat.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : None known.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

##### Components:

##### sodium azide:

Acute oral toxicity : LD50 (Rat): 27 mg/kg

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

No data available

#### Reproductive toxicity

No data available

#### STOT - single exposure

No data available

#### STOT - repeated exposure

No data available

#### Repeated dose toxicity

No data available

#### Aspiration toxicity

No data available

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **sodium azide:**

- |   |   |  |
|---|---|--|
| Toxicity to fish                                    | : | LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.7 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia pulex (Water flea)): 4.2 mg/l<br>Exposure time: 96 h             |
| Toxicity to algae                                   | : | IC50: 272 mg/l   |
| Toxicity to bacteria                                | : | EC50 (Photobacterium phosphoreum): 38.5 mg/l                                   |

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

No data available

### **Mobility in soil**

No data available

### **Other adverse effects**

No data available

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## 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

- |                        |   |  |
|------------------------|---|--|
| Waste from residues    | : | In accordance with National, Federal, State and Local regulations.                             |
| Contaminated packaging | : | Empty containers should be taken to an approved waste handling site for recycling or disposal. |
- 

## 14. TRANSPORT INFORMATION

### **International Regulations**

#### **UNRTDG**

Not regulated as a dangerous good

#### **IATA-DGR**

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

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

Not applicable for product as supplied.

### National Regulations

#### GB 6944/12268

Not regulated as a dangerous good

## 15. REGULATORY INFORMATION

### National regulatory information

Restricted to professional users.

Law on the Prevention and Control of Occupational Diseases

## 16. OTHER INFORMATION

### Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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CN / EN