



Safety Data Sheet

(SDS)

Product name	DS-7402H BS
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1. Chemical product and enterprise logo

A. Name of product: DS-7402H BS

B. Recommended use of the product and the limitation on use

☐ Recommended use : lass Fabric Reinforced Epoxy Bonding Sheet

☐ Limitation on use : N/A

C. Producer and supplier: Doosan Electronics

Name of producing company : Doosan Electronics

Address: 40, Doosan Road, Jeungpyungeup, Jeungpyungkun, Chungbuk, Korea

Phone: +82-43-820-8502

Name of Supplier Company: Doosan Electronics

Address: 40, Doosan Road, Jeungpyungeup, Jeungpyungkun, Chungbuk, Korea

Phone: +82-43-820-8502

2. Hazard overview

A. Classification of harmfulness. danger

- ☐ Physical danger : N/A
- ☐ Health harmfulness : N/A
- ☐ Environmental harmfulness : N/A

B. Warning sign items including preventive measure phrases

- ☐ Pictorial symbol: N/A
- ☐ Signal language: N/A
- ☐ Harmfulness.Danger Phrases: N/A
- ☐ Preventive measure phrases
- Prevention: Keep away from heat.spark.flame.high temperature – No smoking
- Earth, join container and accommodating facilities.
- Use explosion-preventive electricity.ventilation.illumination equipment
- Put on protective gloves. protective clothes.protective glasses. protective face mask
- Avoid inhaling dust.fume.mist.vapor.spray
- Treat only outdoors or in the place ventilation is good
- Response: In case of fire use ... to extinguish fire.
- If you inhaled move to the place with fresh air and rest yourself with a posture you can easily breath
- If you feel discomfort see your doctor (go to the hospital).
- Store : Preserve the container tightly sealed in the place with good ventilation.
- Preserve tightly sealed.
- Disposal : Dispose the contents. Container following the details clarified in the related laws.

C. Other harmfulness.danger not included in the criteria of classification of harmfulness.danger

Cas number	Health	Fire	Response
☐ 065997-17-3 :	-	-	-
☐ Cured Epoxy resin :	-	-	-
☐ Amorphous Silica & Boehmite mixture	-	-	-

3. Ingredient/composition information

Name of chemical	Usual name and other names	CAS Number / Identification number	Content(%)
Glass cloth	-	65997-17-3	15 – 60
Cured Epoxy resin	-	Trade Secret	20 – 65
Amorphous Silica & Boehmite mixture	-	Trade Secret	5 – 40

4. First-aid measures

A. Eye exposure

Call a doctor and get medical advice/attention

Remove contact lenses, if the victim wears one and it is easy to take out.

Immediately flush eyes with plenty of water for at least 15 minutes.

When washing, open the eyelids and wash the eyeballs thoroughly.

B. Skin exposure

Call a doctor and get medical advice/attention

Remove/Take off immediately all contaminated clothing.

Flush and wash with plenty of cold or lukewarm water and soap, etc.

Obtain medical attention if appearance changes or pain occurs.

C. Inhalation

Call a doctor and get medical advice/attention

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

D. Ingestion

Call a doctor and get medical advice/attention

E. The most major symptom/influence of acute and chronic illness

No data available

F. First aid and the matters that require attention of doctors

Let the medical staffs know of the contaminated situations so that they too could take appropriate protective measures.

5. Fire safety measures**A. Appropriate (inappropriate) fire extinguisher**

☐ Appropriate fire extinguisher : Powder fire extinguishing chemicals. Carbon dioxide. Water spray. General foam

☐ Inappropriate fire extinguisher : Water

B. Particular harmfulness generated from chemicals

☐ Risk of fire and explosion : There is a danger of fire.

C. Protective equipment to put on when extinguishing fire and preventive measures

Put on protective garment which can protect the whole body.

6. Leak Emergency Treatment**A. Measures and protective equipments necessary to protect human body**

Take measures of isolation of exposed area and control the access of people except for the concerned persons.

For future disposal collect and dispose leaked materials to appropriate container.

Move it to the place of good ventilation.

Follow the OSHA respiration protective equipment regulation (29 CFR 1910.134) or European Standard EN 149.

Keep distance of more than 25 ~ 50m from the leaking point and control the entry of people except for the concerned persons.

Put on Self-Contained Breathing Apparatus (SCBA Apparatus)

B. Measures necessary to protect environment

☐ Atmosphere No materials available

☐ Earth : No materials available

☐ Under water : No materials available

C. Method of purification or removal

☐ In case of leaking a little amount No materials available

☐ In case of leaking large amount Escape at least 50m opposite to the direction of 1st wind.

7. Operation, Disposal and Storage**A. Safe treatment method :**

Treat only in the place with good ventilation

Minimize the generation and accumulation of dust.

Avoid inhaling of dust and direct skin contact.

Remove contaminated clothes and wash them before reuse.

B. Method of safe storage :

Avoid direct contacting the air.

Preserve it in a tightly sealed container.

Avoid contact with mixture-prohibited material.

Store in cool and dry place.

Store in a place of good ventilation.

8. Exposure Control and Individual Protection

A. Standard of exposure of chemicals and biological standard of exposure etc.

☐ Domestic regulation

	65997-17-3	Cured Epoxy resin	Amorphous Silica & Boehmite mixture
TWA	No data available	No data available	No data available
STEL	No data available	No data available	No data available

☐ ACGIH Regulations

	65997-17-3	Cured Epoxy resin	Amorphous Silica & Boehmite mixture
TLV-TWA	No data available	No data available	No data available
STEL	No data available	No data available	No data available

☐ OSHA Regulations

	65997-17-3	Cured Epoxy resin	Amorphous Silica & Boehmite mixture
TLV-TWA	No data available	No data available	No data available
STEL	No data available	No data available	No data available

☐ NIOSH Regulations

	65997-17-3	Cured Epoxy resin	Amorphous Silica & Boehmite mixture
TLV-TWA(10 hours)	No data available	No data available	No data available
STEL	No data available	No data available	No data available

☐ Biological exposure standard

: No data available

B. Appropriate engineering management

Install local ventilation apparatus and manage to maintain suitable controlled wind speed.

Confirm whether the work process is appropriate for allowed standard and exposure standard of the Ministry of Employment and Labor.

Install sealed facilities or local ventilation apparatus.

C. Personal Protective Apparatus

☐ Protection of respiratory organ : Put on respiratory protective apparatus certified by Korea Occupational Safety and Health Agency

☐ Eye protection : Install emergency washing facilities (shower-type) and eyes washing facilities so that the workers can easily use.

Put on goggles for chemicals described in eyes, face protection regulation (29 CFR 1910.133) of OSHA or EN166.

Put on protective goggle to protect the eyes from scattering materials.

☐ Hands protection : Put on anti-chemical protective gloves to avoid direct contact of chemicals with the hands.

☐ Body protection : Put on anti-chemical protective garment which can prevent skin exposure.

9. Physical and Chemical Properties

구분	Characteristics		
	65997-17-3	Cured Epoxy resin	Amorphous Silica & Boehmite mixture
A. Appearance	No data available	No data available	No data available
B. Smell	No data available	No data available	No data available
C. Smell Value	No data available	No data available	No data available
D. pH	No data available	No data available	No data available
E. Melting point/Freezing point	>500 °C	No data available	No data available

F. Boiling point/boiling point extent	>1000 degree C at 1013 hPa	No data available	No data available
G. Flashing point	No data available	No data available	No data available
H. Evaporating rate	No data available	No data available	No data available
I. Flammability (solid, gas)	No data available	No data available	No data available
J. Ignition highest/lowest value	No data available	No data available	No data available
K. Steam pressure	No data available	No data available	No data available
L. Solubility	No data available	No data available	No data available
M. Vapor density	No data available	No data available	No data available
N. Specific gravity	No data available	No data available	No data available
O. n-octanol/water distribution coefficient	No data available	No data available	No data available
P. Spontaneous ignition temperature	No data available	No data available	No data available
Q. Decomposition temperature	No data available	No data available	No data available
R. Viscosity	No data available	No data available	No data available
S. Molecular weight	No data available	No data available	No data available

10. Stability and Reactivity

- A. Chemical stability :** Stable in normal temperature and pressure
- B. Possibility of harmful response :** No polymerization
- C. Condition to avoid :** Avoid contact with mixture-prohibited material.
- D. Material to avoid :** Water
- E. Harmful material generated when decomposing :** No data

11. Toxicological Information

A. Information on highly possible exposure route

- ☐ Inhaling through respiratory organ
: No data
- ☐ Taking through the mouth
: No data
- ☐ Skin contact
: No data
- ☐ Eyes contact
: No data

B. Delayed, acute and chronic influence by short-term and long-term exposure

- ☐ Acute toxicity:
- Through the mouth: No data available within the extent of selected DATABASE
 - Through the skin : No data available within the extent of selected DATABASE
 - Inhaling : No data available within the extent of selected DATABASE
- ☐ Skin corrosiveness/ stimulation: No data available within the extent of selected DATABASE
- ☐ Severe eyes damage/Stimulation: No data available within the extent of selected DATABASE
- ☐ Respiratory organ hypersensitiveness: No data available within the extent of selected DATABASE
- ☐ Skin hypersensitiveness: No data available within the extent of selected DATABASE
- ☐ Carcinogenic: No data available within the extent of selected DATABASE
- ☐ Reproductive cell mutagenicity: No data available within the extent of selected DATABASE
- ☐ Reproductive toxicity: No data available within the extent of selected DATABASE
- ☐ Target organ whole body toxicity (1 time expos No data available within the extent of selected DATABASE
- ☐ Target organ whole body toxicity (repeated exp No data available within the extent of selected DATABASE
- ☐ Inhale harmfulness : No data available within the extent of selected DATABASE

- C. Numerical measure of toxicity (acute toxicity assumed values) :** No data

12. Ecological Information

A. Aquatic and land animal ecological toxicity:

- ☐ Fishes : No data available
- ☐ Crustacean : No data available
- ☐ Algal : No data available

B. Residual and resolvability:

- ☐ Residual : No data available
- ☐ Resolvability: No data available

C. Living organism condensability:

- ☐ Biodegradability : No data available
- ☐ Condensability : No data available

D. Soil movability:

No data available

E. Other harmful influence:

No data available

13. Waste Disposal

A. Method of disposal

Dispose the content container following the regulation in case indicated in the waste management law.

B. Matters that require attention when disposing(including the method of disposing contaminated container and packing)

Please consider the matters that require attention in case indicated in the waste management law.

14. Transport Information

Glass cloth

A. UN number : No data available

B. UN optimal shipping name : No data available

C. Degree of danger in transportation : No data available

D. Container grade : No data available

E. Marine pollution material : No data available

F. Special safety measures necessary, or necessary for user to know about the transportation or means of transportation :

- ☐ Kinds of emergency measures in case of fire: F-G
- ☐ Kinds of emergency measures in case of leakin S-G

15. Toxicological Information

Glass cloth

A. Regulation by Industry Safety and Health Law : Not applicable

B. Regulation by Harmful Chemical Material Management Law : Not applicable

C. Regulation by Dangerous Material Safety Management Law : Not applicable

D. Regulation by Waste Management Law : Designated Waste

E. Other regulation by domestic and foreign laws :

- ☐ Residual organic pollution material management law: Not applicable
- ☐ EU Classification Information
- Determined classification result: No data available
- Danger phrase: No data available
- Prevention measure phrase: No data available
- ☐ US management Information
- ‘– OSHA Regulation: Not Applicable
- ‘– CERCLA 103 Regulation (40CFR302.4) : Not Applicable
- ‘– EPCRA 302 Regulation (40CFR355.30) : Not Applicable
- ‘– EPCRA 304 Regulation (40CFR355.40) : Not Applicable
- ‘– EPCRA 313 Regulation (40CFR372.65) : Not Applicable

☐ Rotterdam Agreement Material:	Not Applicable
☐ Stockholm Agreement material :	Not Applicable
☐ Montreal Protocol material :	Not Applicable

16. Other information

A. Source of the material :

OECD Screening Information Data Set(<http://webnet.oecd.org/hpv/UI/Search.aspx>)

European chemical Substances Information System(ECB-ESIS)(<http://ecb.jrc.it/esis>)

International Uniform Chemical Information Database(IUCLID)(<http://ecb.jrc.it/esis>)

National Library of Medicine(NLM)(<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM>)

National Library of Medicine/Hazardous Substances Data Bank(NLM/HSDB)(<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>)

International Chemical Safety Cards (ICSC)(<http://www.ilo.org/public/english/protection/safework/cis/products/icsc/dtasht/index.htm>)

National Emergency Management Agency(<http://www.nema.kr/hazmat/main/main.jsp>)

Chemical Substances Hazard Assessment Report/Initial Risk Assessment Report(http://www.safe.nite.go.jp/english/sougou/view/TotalSrchlInput_en.faces)

NITE(http://www.safe.nite.go.jp/ghs/h18_list.html)

The ECOTOXicology database (ECOTOX)(http://cfpub.epa.gov/ecotox/quick_query.htm)

Akron University(<http://ull.chemistry.uakron.edu/erd/>)

Emergency Response Guidebook(2008)

International Agency for Research on cancer(IARC)(<http://monographs.iarc.fr/ENG/Classification/index.php>)

B. The first date of making : March 28 2011

C. Number of Amendment and the last date of amendment : 7/ November 13, 2025

D. Others

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