

# SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation



Version: 2.0

Revision Date: 07.04.2011

Superseded date: 30.01.2008

## DOW CORNING(R) 4 ELECTRICAL INSULATING COMPOUND

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

**1.1 Product name** DOW CORNING(R) 4 ELECTRICAL INSULATING COMPOUND

**1.2 Identified uses** Semiconductors

**Uses advised against** None known.

**1.3 Company Supplier** Force Products Ltd

Stock House, Seymour Road

Nuneaton, Warwickshire , CV11 4LB

**E-mail address (Safety Data Sheet)**

Sales@forceproducts.co.uk

**1.4 Emergency Phone Number**

Dow Corning (Barry U.K. 24h)

Tel: +44 1446732350

### 2. HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture**

According to EU Directives 67/548/EEC or 1999/45/EC:

Not hazardous.

**2.2 Label elements**

Labelling according to EEC Directive

No special packaging or labelling requirements.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical characterization:** Inorganic compound

According to EU Directives 67/548/EEC or 1999/45/EC:

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Boric Acid	10043-35-3	233-139-2		0.14	T, Toxic for reproduction - category 2. R60 R61

According to Regulation (EC) No. 1272/2008:

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Boric Acid	10043-35-3	233-139-2		0.14	Reproductive toxicity (Oral): Category 1B H360FD

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

CLP classifications are based on all current available data including from known international organizations. These classifications are subject to revision as more information becomes available.

### 4. FIRST AID MEASURES

#### 4.1 Description of First Aid Measures:

<b>On contact with eyes</b>	No first aid should be needed.
<b>On skin contact</b>	No first aid should be needed.
<b>If inhaled</b>	No first aid should be needed.
<b>On ingestion</b>	No first aid should be needed.

### 5. FIRE-FIGHTING MEASURES

<b>5.1 Suitable extinguishing media</b>	On large fires use dry chemical, foam or water spray (fog). On small fires use carbon dioxide (CO <sub>2</sub> ), dry chemical or water spray. Water can be used to cool fire exposed containers.
<b>Unsuitable extinguishing media</b>	None known.
<b>5.2 Hazards during fire fighting</b>	None known.

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### Hazardous Combustion Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

### 5.3 Special protective equipment/procedures

A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear proper protective equipment.

### 6.2 Environmental precautions

Do not allow large quantities to enter drains or surface waters.

### 6.3 Methods and materials for containment and cleaning up

Scrape up and place in a container fitted with a lid. The spilled product produces an extremely slippery surface.

## 7. HANDLING AND STORAGE

### 7.1 Advice on safe handling

Avoid eye contact. General ventilation is recommended. Do not empty into drains.

### 7.2 Advice on storage

Do not store with oxidizing agents.

### 7.3 Specific uses

Refer to technical data sheet available on request.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Name	CAS-No.	Exposure Limits
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None of the components have assigned exposure limits.

### 8.2 Exposure controls

#### Engineering Controls

Ventilation : Refer to Section 7.1

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### Personal protection equipment

<b>Respiratory protection</b>	This product cannot normally be inhaled.
<b>Hand protection</b>	Gloves are not normally required.
<b>Eye/face protection</b>	Safety glasses should be worn.
<b>Skin protection</b>	Protective equipment is not normally necessary.
<b>Hygiene measures</b>	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
<b>Additional information</b>	These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.
<b><u>Environmental exposure controls</u></b>	Refer to section 6 and 12.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Form</b>	Grease
<b>Colour</b>	Translucent white
<b>Odour</b>	Very little
<b>Flash point</b>	100 °C (Closed Cup)
<b>Explosive properties</b>	No
<b>Specific Gravity</b>	> 1
<b>Oxidizing properties</b>	No

The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	None known.
<b>10.2 Stability</b>	Stable under normal usage conditions.
<b>10.3 Possibility of hazardous reactions</b>	None known.
<b>10.4 Conditions to avoid</b>	None established.
<b>10.5 Materials to avoid</b>	Can react with strong oxidising agents.
<b>10.6 Hazardous decomposition products</b>	Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely

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burned carbon compounds. Formaldehyde.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity:

On contact with eyes	May cause temporary discomfort.
On skin contact	No adverse effects are normally expected.
If inhaled	No adverse effects are normally expected.
On ingestion	No adverse effects are normally expected.

#### Chronic toxicity:

On skin contact	No adverse effects are normally expected.
If inhaled	No adverse effects are normally expected.
On ingestion	No adverse effects are normally expected.

#### Toxicokinetics, metabolism and distribution

No specific information is available.

#### Other Health Hazard Information

This product contains (a) powder(s) hazardous by inhalation. This is not relevant to the current physical form of the product, which is not in a respirable form.

Based on product test data.

Based on test data from similar products.

### 12. ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity effects

No adverse effects on aquatic organisms are predicted.

#### 12.2 Persistence and degradability

Solid material, insoluble in water. No adverse effects are predicted.

#### 12.3 Bioaccumulation

No bioaccumulation potential.

#### 12.4 Release to waters / Mobility in soil

Fate and effects in waste water treatment plants:

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No adverse effects on bacteria are predicted.

### 13. DISPOSAL CONSIDERATIONS

#### Product and packaging disposal

Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

### 14. TRANSPORT INFORMATION

#### Road / Rail (ADR/RID)

Not subject to ADR/RID.

#### Sea transport (IMDG)

Not subject to IMDG code.

#### Air transport (IATA)

Not subject to IATA regulations.

### 15. REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### AICS

All ingredients listed, exempt or notified.

##### DSL

All ingredients listed or exempt.

##### IECSC

All ingredients listed or exempt.

##### EINECS

All ingredients listed, exempt or notified (ELINCS).

##### ENCS/ISHL

All ingredients listed, exempt or notified.

##### KECL

All ingredients listed, exempt or notified.

##### PICCS

All ingredients listed, exempt or notified.

##### TSCA

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

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### 16. OTHER INFORMATION

This product safety data sheet was prepared in compliance with article 31 and Annex II of the EU REACH Regulation as well as its relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the Dow Corning product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Dow Corning Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH Regulation.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Dow Corning shall not be held responsible for any defect in the product covered by this SDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local Dow Corning supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary - even for the same product - between different countries, reflecting the different compliance requirements. Should you have any question, please refer to your local Dow Corning supplier.

Source of information: Internal data and publically available information

**R60** May impair fertility., **R61** May cause harm to the unborn child.

**H360FD** May damage fertility. May damage the unborn child.,

