

Weicon GmbH

Revision date: 22.10.2009

Revision no.:

1,00

Plastic-Metal Ceramic BL Resin

7619-0013

1. Product and Company Identification

Commercial product name

Plastic-Metal Ceramic BL Resin

Further trade names

10400-2

Chemical characterization (Mixture)

Resin for a two-component epoxy adhesive.

Company/undertaking identification

Manufacturer

Weicon GmbH

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D-48157 Münster

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Internet: www.weicon.de

Responsible for the safety data sheet: sds@gbk-ingelheim.de

2. Hazards Identification

Route(s) of Entry

Skin and eye contact, inhalation and ingestion.

Signs and Symptoms of Exposure

CAUTION !

May cause eye/skin irritation.

May cause sensitization by skin contact

OSHA Hazard Communication: This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

Carcinogenicity (NTP): not listed

Carcinogenicity (IARC): not listed

Carcinogenicity (OSHA): not listed

3. Composition/Information on Ingredients

Hazardous components

CAS No.	Components	Quantity
409-21-2	Silicon carbide	40 - 55 %
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	20 - 28 %
9003-36-5	Epoxidharz	4 - 10 %
2425-79-8	1,4-bis(2,3 epoxypropoxy)butane, butanedioldiglycidyl ether	2 - 8 %
7631-86-9	silicon oxide	1 - 5 %

4. First Aid Measures

General information

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

After inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

In the event of symptoms refer for medical treatment.

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After contact with skin

Wash off immediately with soap and plenty of water.

Consult a doctor if skin irritation persists.

After contact with eyes

Rinse eyes immediately with large amounts of water for several minutes, especially under the eyelids.

Seek medical treatment by eye specialist.

After ingestion

If swallowed give water to drink.

Summon a doctor immediately.

Advice to physician

In the event of pulmonary irritation treat initially with dexamethasone metered-dose aerosol.

5. Fire Fighting Measures

Suitable extinguishing media

Foam, carbon dioxide (CO₂), dry chemical, water-spray.

Unsuitable extinguishing media

Full water jet

Special hazards arising from the chemical

Fire may produce:

Carbon monoxide (CO)

Carbon dioxide (CO₂)

Protective equipment and precautions for firefighters

A self contained breathing apparatus should be worn in fire conditions.

Additional information

Cool containers at risk with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

6. Accidental Release Measures

Personal precautions

Use personal protective clothing.

In case of vapour formation use respirator.

Ensure adequate ventilation.

Keep away sources of ignition.

Environmental precautions

Clean contaminated surface thoroughly.

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

Methods for cleaning up/taking up

Take up with absorbent material.

Shovel into suitable container for disposal.

7. Handling and Storage

Handling

Advice on safe handling

Keep in closed original container.

Use only in thoroughly ventilated areas.

Avoid contact with skin, eyes and clothing.

When using, do not eat, drink or smoke.

Advice on protection against fire and explosion

Pay attention to general rules of internal fire prevention.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

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Further information on handling

Open and handle container with care.

Storage**Requirements for storage rooms and vessels**

Keep container tightly closed in a dry, cool and well-ventilated place.

Recommended storage temperature: room temperature.

Advice on storage compatibility

Incompatible with:

Oxidizing agents, Amines, Acids and bases.

Further information on storage conditions

Do not store together with animal feedstuffs.

Do not store together with food.

8. Exposure Controls/Personal Protection**Exposure limit values****Exposure limits**

CAS No.	Components	ppm	mg/m ³	fib/cc	Category	Origin
7631-86-9	Silica, amorphous	-	6		TWA (8 h)	REL
409-21-2	Silicon carbide (resp)	-	5		TWA (8 h)	REL
	Silicon carbide Respirable fraction	-	5		TWA (8 h)	PEL

Additional advice on limit values

Contains epoxy compounds. Observe the instructions of the manufacturer

Occupational exposure controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Do not inhale gases/vapours/aerosols.

When using, do not eat, drink or smoke.

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothes before re-use.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

Hand protection

Protective gloves resistant to chemicals made off nitrile, Minimum coat thickness 0.4 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril 735> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection

Tightly fitting goggles

Safety Shoes

Skin protection

Protective clothing

9. Physical and Chemical Properties**Appearance**

Form: Pasty

Color: Blue

Odor: Mild

Important health, safety and environmental information

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	Test method
pH-Value (at 20 °C):	approx. 7 1:1 in water
Changes in the physical state	
Melting point:	>200 °C
Boiling point:	>200 °C
Flash point:	150 °C
Vapour pressure: (at 20 °C)	<0,0001 hPa
Density (at 25 °C):	1.95 g/cm ³
Water solubility: (at 20 °C)	Insoluble
Viscosity / dynamic: (at 25 °C)	55000 - 80000 mPa·s

10. Stability and Reactivity

Stability

Stable

Conditions to avoid

To avoid thermal decomposition, do not overheat.

Keep away from heat.

Materials to avoid

Reactions with strong acids and alkalis.

Reactions with strong oxidizing agents.

Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Possibility of Hazardous Reactions

Will not occur

Additional information

No decomposition if stored and applied as directed.

11. Toxicological Information

Acute toxicity

LD50/oral = >5000 mg/kg Rat

Corrosive and irritant effects

Skin irritation: Irritant Rabbit

Eye irritation : Irritant Rabbit eye

Sensitizing effects

Sensitization through skin contact possible.

Sensitization skin (guinea pig): Sensitizing

Empirical data on effects on humans

If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

12. Ecological Information

Further information

Do not discharge product unmonitored into the environment.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Product is not allowed to be discharged into aquatic environment.

13. Disposal Considerations

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Advice on disposal

Remove in accordance with local official regulations.

Where possible recycling is preferred to disposal.

If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packagings are to be treated like the product itself.

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

14. Transport Information**US DOT 49 CFR 172.101****Proper shipping name**

Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy Resin)

ID Number: 3082

Hazard Class or Division: 9

Packing group: III

Label: 9

Land transport (ADR/RID)

UN number: 3082

ADR/RID class: 9

Classification Code: M7

Warning plate

Hazard-no.: 90

Hazard label: 9



ADR/RID packing group: III

Limited quantity: LQ27

Description of the goods

Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy Resin)

Other applicable information

Transport category: 3

Tunnel restriction code: E

Additional label with symbol "fish and tree" according to subsection 5.2.1.8.3. ADR for single packagings and inner packagings with > 5 kg or 5 L.

Marine transport

UN number: 3082

IMDG code: 9

Hazard label: 9



IMDG packing group: III

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cont. epoxy resin)

Other applicable information

Additional label with symbol "fish and tree" according to subsection 5.2.1. IMDG Code for single packagings and inner packagings with > 5 kg or 5 L.

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Air transport

UN/ID number: 3082

ICAO/IATA-DGR: 9

Hazard label: 9



ICAO packing group: III

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cont. epoxy resin)

Other applicable information

Additional label with symbol "fish and tree" according to subsection 7.1.6.3. IATA/DGR for single packagings and inner packagings with > 5 kg or 5 L.

15. Regulatory Information**U.S. Regulations****National Inventory TSCA**

All of the components are listed on the TSCA inventory.

SARA

To the best of our knowledge this product contains no toxic chemicals subject to the supplier notification requirements of Section 313 of the Superfund Amendments and Reauthorization Act (SARA/EPCRA) and the requirements of 40 CFR Part 372.

16. Other Information**Hazardous Materials Information Label (HMIS)**

Health: 2

Flammability: 1

Physical Hazard: 0

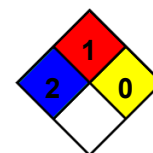
NFPA Hazard Ratings

Health: 2

Flammability: 1

Reactivity: 0

Unique Hazard:

**Other data**

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)