

Weicon GmbH

Revision date: 28.10.2009

Revision no.:

1,00

Plastic-Metal HB 300 Resin

7619-0026

## **1. Product and Company Identification**

### **Commercial product name**

Plastic-Metal HB 300 Resin

### **Further trade names**

10450-2

### **Chemical characterization ( Mixture )**

Epoxy resin based on bisphenol A and bisphenol F

### **Company/undertaking identification**

#### **Manufacturer**

Weicon GmbH

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## **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.

Harmful in contact with skin.

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
25068-38-6	epoxy resin (number average molecular weight <= 700), reaction product: bisphenol-A-(epichlorhydrin)	10 - 25 %
9003-36-5	Epoxidharz	10 - 25 %
28804-47-9	methyl toluenesulphonate	2.5 - 10 %

## **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.

Keep warm and calm injured person.

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. Do not use solvents or thinners.

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**

Never give anything by mouth to an unconscious person.

Summon a doctor immediately.

**Advice to physician**

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

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**5. Fire Fighting Measures**

**Suitable extinguishing media**

Alcohol-resistant foam.

Dry powder

Carbon dioxide

Water mist

**Unsuitable extinguishing media**

Full water jet

**Special hazards arising from the chemical**

Fire may produce:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

**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.

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**6. Accidental Release Measures**

**Personal precautions**

Use personal protective clothing.

In case of vapour formation use respirator.

Ensure adequate ventilation.

**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.

**Additional information**

After taking up the material dispose according to regulation.

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**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.

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**Advice on protection against fire and explosion**

Pay attention to general rules of internal fire prevention.

Keep away from sources of ignition - No smoking.

**Storage****Requirements for storage rooms and vessels**

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

Protect from heat/overheating.

Protect from direct solar radiation.

**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****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 viton, Minimum coat thickness 0,7 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove &lt;Vitoject 890&gt; 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

**Skin protection**

Protective clothing

**9. Physical and Chemical Properties****Appearance**

Form: Highly viscous

Color: Grey

Odor: Characteristic

**Important health, safety and environmental information**

Test method

**Changes in the physical state**

Flash point: 200 °C

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Density (at 20 °C):	2.1 g/cm <sup>3</sup>
Water solubility: (at 20 °C)	Insoluble
Viscosity / dynamic: (at 20 °C)	22000 - 24000 mPa·s

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## 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.

Nitrous oxides (NO<sub>x</sub>)

### Possibility of Hazardous Reactions

Will not occur

### Additional information

No decomposition if stored and applied as directed.

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## 11. Toxicological Information

### Corrosive and irritant effects

Irritates mucous membranes.

Irritating to eyes and skin.

### Sensitizing effects

Sensitization through skin contact possible.

### Empirical data on effects on humans

Sensitization through skin contact possible.

Irritates mucous membranes.

Irritating to eyes and skin.

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

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## 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.

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## 13. Disposal Considerations

### Advice on disposal

Remove in accordance with local official regulations.

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

Empty containers may be recycled. Otherwise dispose of in accordance with applicable 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

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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 &gt; 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 &gt; 5 kg or 5 L.

**Air transport**

UN/ID number: 3082

ICAO/IATA-DGR: 9

Hazard label: 9



ICAO packing group: III

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**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.)*