



## MATERIAL SAFETY DATA

EDITION: 11 DATE: February 2007

### 1. PRODUCT

NAME: **weber.tec EP injection resin** (epoxy plus injection resin)

#### Chemical Nature

Two-component epoxy resin system based on a Bisphenol A/F epoxy resin and benzyl alcohol containing a small quantity of special very fine siliceous fillers and a hardener based on a modified aliphatic polyamines.

#### Manufacturer

##### **Weber**

Saint-Gobain Weber Limited  
Dickens House  
Enterprise Way  
Flitwick  
Bedford.  
MK45 5BY.

EMERGENCY TELEPHONE NUMBER. 08703 330070

### 2. COMPOSITION

Resin component contains a blend of liquid epoxy Bisphenol A resin Av. MW < 700 CAS No.25068-38-6 and liquid epoxy Bisphenol F resin CAS No.9003-36-5 (60-90%) C12 - C14 monoglycidyl ether CAS No. 68081-84-5 (10-30%) and benzyl alcohol CAS No. 100-51-6 (<10%). Contains epoxy constituents. See information supplied by the manufacturer.

EEC Symbol: Xi, N R Phrases: 36/38, 43 & 51/53

Hardener component contains Trimethylhexamethylene diamine CAS No. 25620-58-0 (30-60%) and Isophoronediamine CAS No. 2855-13-2 (30-60%)

EEC Symbol: C, N R Phrases: 21/22, 34, 43 & 50/53

### 3. HAZARDS IDENTIFICATION

#### Resin Component

Irritating to eyes and skin

May cause sensitisation by skin contact

Toxic to aquatic organisms. May cause long-term adverse effects on the aquatic environment

Hardener Component

Harmful in contact with skin, eyes and if swallowed.

Causes burns

May cause sensitisation by skin contact.

Very toxic to aquatic organisms. May cause long-term adverse effects on the aquatic environment

**4. FIRST AID MEASURES**

SKIN CONTACT:	Wipe off excess with absorbent disposable paper towels. Wash with plenty of soap and water. Do not use organic solvents. Seek medical attention if any irritation persists.
EYE CONTACT:	Rinse immediately with water for at least 15 minutes. Seek medical attention immediately.
INHALATION:	Move affected person to fresh air. In case of irritation to respiratory system or mucous membrane or if symptoms persist seek medical attention
INGESTION:	Immediately rinse mouth repeatedly with water. If swallowing has occurred the affected person should drink 500 -800ml. of water. Seek medical attention promptly.

**5. FIRE FIGHTING MEASURES**

Suitable Extinguishers: Water mist, Carbon dioxide, Foam and Dry powder. Do not use high-pressure water jet extinguishers.

Exposure hazards

Do not release chemically contaminated water into drains, soil or surface water.

Sufficient measures must be taken to retain water used for extinguishing. Dispose of contaminated water and soil according to local regulations.

**6. ACCIDENTAL RELEASE MEASURES**Personal Precautions

Avoid contact with skin, eyes and clothing. Avoid breathing vapours. Avoid ignition sources.

Environmental Precautions

Prevent contamination of soil drains and surface water.

Methods for Cleaning

Take up with absorbent, dry inert material and place in a suitable and closable container for disposal according to local regulations.

**7. HANDLING AND STORAGE**Handling

Irritant, sensitising. Avoid vapour formation and ignition sources. Ensure good ventilation.

Do not eat or drink in workplace.

Storage

Store away from food and drink. Store in original undamaged containers securely closed.

Store at room temperature away from direct sunlight.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Technical Protective Measures

No special measures required

Exposure Limits

Resin and Hardener None

Respiratory Protection

Not normally necessary. Work in well ventilated area. Wear suitable vapour mask if working in confined spaces (i.e. respiratory equipment with suitable filter or self-contained respiratory apparatus)

Hand Protection

Wear suitable gloves (nitrile rubber)

Eye Protection

Wear suitable goggles or face protection

Skin Protection

Wear overalls and closed footwear.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Both resin and hardener components are low viscosity liquids with low volatility at normal temperatures.

Colour:	water white – pale straw
Boiling Point:	>200oC
Flash point:	both components >100oC.
Ignition temperature:	both components > 400oC
Vapour pressure:	both components at 20oC. <2millibar (calculated)
Solubility:	Resin component: Insoluble water Hardener component: partially miscible with water.

**10. STABILITY AND REACTIVITY**

Thermal Decomposition Temperature:	Above 200oC.
Materials to avoid:	Strong acids and alkalis and strong oxidizing agents.
Hazardous Decomposition Products:	If the materials are involved in fire hazardous oxides of carbon or nitrogen or other hazardous vapours may be released.

**11. TOXICOLOGICAL INFORMATION**

Bisphenol F epichlorohydrin resin MW<700	
LD50:	Oral 23800mg/kg (rat) Dermal >2000mg/kg (rabbit)

**Benzyl alcohol**

LD50: Oral 1610mg/kg (rat)  
 Dermal 2000mg/kg (rabbit) LC50/4h  
 Inhalative >1000mg/l (rat)

**Trimethylhexane-1,6-diamine**

LD50: Oral 910mg/kg (rat)

**Isophoronediamine**

LD50: Oral 1303mg/kg (rat)  
 Dermal 1840mg/kg (rabbit)

Skin Sensitisation in Guinea pigs: Liquid constituents of both resin and hardener may cause sensitisation by skin contact

Skin and Eye irritation tested on rabbits: The liquid constituent of resin component: Irritant.  
 The liquid constituent of hardener: Corrosive.

**12. ECOLOGICAL INFORMATION**

Prevent contamination of soil, drains or surface water. No other specific information available. (Refer to Section 15: R51/53 (resin) R50/53 (hardener)).

**13. DISPOSAL CONSIDERATIONS**

Incineration or landfill in accordance with local regulations. Contaminated packaging material should be disposed of identically to the product itself. For easy disposal any unmixed resin and hardener can be mixed and allowed to cure. Once fully cured Epoxy Plus Injection Resin can be disposed of as normal household waste. Uncontaminated packaging material should be treated as household waste or as recycling material.

**14. TRANSPORT INFORMATION**Resin Component:

UN No.: 3082 Environmentally Hazardous Liquid n.o.s. (Epoxy Resin)

Hardener Component:

UN No.: 2735 Amines, liquid, corrosive n.o.s.  
 (isophoronediamine/trimethylhexamethylenediamine)

Packaging Group: III R  
 ID/ADR: Class 8  
 IMDG-Code: Class 8  
 IATA: Class 8  
 Flash Point: >100oC.

**15. REGULATORY INFORMATION**Resin Component

Symbol: Xi, N

Contains: Bisphenol A/F epoxy resin with average MW <700, C12-C14 monoglycidyl ether and benzyl alcohol. Contains epoxy constituents. See information supplied by the manufacturer

R Phrases:  
 R36/38 Irritating to eyes and skin  
 R43 May cause sensitisation by skin contact  
 R52/53 Harmful to aquatic organisms. May cause long-term adverse effects on the aquatic environment

S Phrases:  
 S24 Avoid contact with skin  
 S28 After contact with skin, wash immediately with plenty of soap and water.  
 S37/39 Wear suitable gloves and eye/face protection.

#### Hardener Component

Symbol: C, N  
 Contains: Trimethylhexamethylene diamine and isophoronediamine

R Phrases:  
 R21/22 Harmful in contact with skin, eyes and if swallowed.  
 R34 Causes burns  
 R43 May cause sensitisation by skin contact.  
 R50/53 Very toxic to aquatic organisms. May cause long-term adverse effects on the aquatic environment

S Phrases:  
 S24 Avoid contact with skin  
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.  
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection  
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

### **16. OTHER INFORMATION**

The information supplied by the manufacturer on epoxy constituents is contained within this data sheet.

This safety sheet has been prepared in accordance with the provisions of the EC SDS Directive 91/155.