



MATERIAL SAFETY DATA

EDITION: 6 DATE: DECEMBER 2004

1. PRODUCT

NAME: **weber.tec force EP bonding adhesive** (enforce bonding adhesive)

Chemical Nature

A two component liquid adhesive based on a Bisphenol A/F epoxy resin and a modified aliphatic polyamine hardener.

Manufacturer

Weber

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

EMERGENCY TELEPHONE NUMBER. 08703 330070

2. COMPOSITION

Resin component contains Bisphenol A/F Resin with Av. MW < 700 and 1,6-hexanediol diglycidyl ether CAS No.16096-31-4. Contains epoxy constituents. See information supplied by the manufacturer.

EEC Symbol: Xi

N R Phrases: 36/38,43,51/53

Hardener component contains 3-aminomethyl-3,5,5-trimethylcyclohexylamine (30-60%) CAS No. 2855-13-2 and benzyl alcohol (30-60%) CAS No. 100-51-6

EEC Symbol: C

R Phrases: 20/21/22, 34,43, 52/53

3. HAZARDS IDENTIFICATION

Resin Component

Irritating to eyes and skin May cause sensitisation by skin contact Toxic to aquatic organisms, may cause long-term effect on the aquatic environment

Hardener Component

Harmful by inhalation, in contact with skin and if swallowed Causes burns May cause sensitisation by skin contact Harmful to aquatic organisms, may cause long-term adverse effects in 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.

EYE CONTACT:

Rinse immediately with water for at least 15 minutes. Get 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:

Seek medical attention instantly. Immediately rinse mouth repeatedly with water. If swallowing has occurred the affected person should drink copious amount of water.

5. FIRE-FIGHTING MEASURES

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

Toxic fumes may be given off of carbon monoxide. Fire fighters should wear self-contained breathing apparatus

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. Ensure adequate ventilation.

7. HANDLING AND STORAGE

Handling

Resin: Irritant, sensitising. Hardener: Corrosive, harmful by inhalation, in contact with skin and if swallowed and 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

None.

Respiratory Protection

Not normally necessary. Work in well ventilated area. Wear suitable vapour mask if working in confined spaces.

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 liquids. The flash points of both the resin and hardener components are above 100 °C.

10. STABILITY AND REACTIVITY

Thermal Decomposition Temperature: Above 200 °C.

Materials to avoid: Strong acids and alkalis and strong oxidizing agents.

Hazardous Decomposition Products: If the materials are involved in a 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)

Isophoronediamine

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

Skin Sensitisation in Guinea pigs:

Both resin and hardener may cause sensitisation by skin contact.

Skin and Eye irritation tested on rabbits: Resin component: Irritant.

Hardener Component: Corrosive.

12. ECOLOGICAL INFORMATION

Prevent contamination of soil, drains or surface water. No other specific information available.

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 **weber.tec force EP bonding adhesive** 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)
Class 9

Hardener Component: RID/ADR: Class 8 IMDG-Code: Class 8 IATA: Class 8 Packing Group: III Keep from freezing UN No.: 2289 Isophoronediamine Flash Point: >100 C.

15. REGULATORY INFORMATION

Resin Component

Symbol: Xi (Irritant) & N (Dangerous for the environment)

Contains: Bisphenol A epoxy resin with average MW <700. 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

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in 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 (Corrosive)

Contains: 3-aminomethyl-3,5,5-trimethylcyclohexylamine (30-60%) CAS No. 2855-13-2 and benzyl alcohol (30-60%) CAS No. 100-51-6

R Phrases:

R20/2122 Harmful by inhalation, in contact with skin and if swallowed.

R34 Causes burns

R43 May cause sensitisation by skin contact.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in 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.

S28 After contact with skin, rinse immediately with plenty of water

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.