



**1 Identification**

- **Product identifier**
- **Trade name: Casting Epoxy Part A**
- **Application of the substance / the mixture** Epoxy binder
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
E4E Epoxy  
654 W. Main St  
Palmyra, Pa 1707 8  
  
Tel.: (717) 645-7567
- **Information department:** see section 16
- **Emergency telephone number:** Chemtrec 800-424-3000  
National Capital Poison Center, Washington DC - 24h - Emergency Call: +1 800 222 1222

**2 Hazard(s) identification**

- **Classification of the substance or mixture**  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.
- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labeling:**  
bis[4-(2,3-epoxypropoxy)phenyl]propane  
Hydrogenated Bisphenol-A-Epoxy resin  
Bisphenol F- Epoxyresin  
Hexanedioldiglycidyl ether
- **Hazard statements**  
Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.
- **Precautionary statements**  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves / eye protection / face protection.  
If on skin: Wash with plenty of water.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Take off contaminated clothing and wash it before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.  
Specific treatment (see on this label).  
If eye irritation persists: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

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Trade name: **Casting Epoxy Part A**

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- **Classification system:**
- **HMIS-ratings (scale 0 - 4)**

HEALTH	2	Health = 2
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients**

- **Chemical characterization: Mixtures**
- **Description:** Epoxy resin formulation with a bisphenol-A liquid resin base

· **Dangerous components:**

1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	25-50%
30583-72-3	Hydrogenated Bisphenol-A-Epoxy resin Skin Sens. 1, H317	10-25%
	Bisphenol F- Epoxyresin Skin Irrit. 2, H315; Skin Sens. 1, H317	10-25%
16096-31-4	Hexanedioldiglycidyl ether Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	10-25%

· **Additional information:**

CAS: 9003-36-5 Bisphenol-F Epoxyresin  
For the wording of the listed hazard phrases refer to section 16.

**4 First-aid measures**

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Take affected persons into fresh air and keep quiet.  
Seek medical treatment in case of complaints.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Seek immediate medical advice.
- **Information for doctor:** No particular measures are known - treat according to symptoms.
- **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**5 Fire-fighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet

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- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Do not allow to penetrate the ground/soil.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections** Clean the accident area carefully.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	39 mg/m <sup>3</sup>
30583-72-3	Hydrogenated Bisphenol-A-Epoxy resin	30 mg/m <sup>3</sup>

· **PAC-2:**

1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	430 mg/m <sup>3</sup>
30583-72-3	Hydrogenated Bisphenol-A-Epoxy resin	330 mg/m <sup>3</sup>

· **PAC-3:**

1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	2,600 mg/m <sup>3</sup>
30583-72-3	Hydrogenated Bisphenol-A-Epoxy resin	2,000 mg/m <sup>3</sup>

**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling**  
The usual precautionary measures for handling chemicals must be observed.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store only in the original receptacle.  
Keep containers securely closed and dry, store frost-free.  
Provide floor trough without outlet.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

**8 Exposure controls/personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.
- **Breathing equipment:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Recommended filter device for short term use:**



Combination filter A-P2

- **Protection of hands:**



Plastic gloves

Only use chemical-protective gloves with CE-labeling of category III.  
To minimize the wetness in the glove due to perspiration changing of gloves during a shift is required.

Check the permeability prior to each anewed use of the glove.  
Preventive skin protection by use of skin-protecting agents is recommended.

- **Material of gloves**  
Nitrile rubber, NBR  
Fluorocarbon rubber (Viton)  
Recommended thickness of the material:  $\geq 0.5$  mm  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Not suitable are gloves made of the following materials:**  
Strong gloves  
Leather gloves
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

**9 Physical and chemical properties**

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**  
Form: Fluid  
Color: Yellowish
- **Odor:** Characteristic
- **Odor threshold:** Not determined.

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· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	>200 °C (>392 °F)
· <b>Flash point:</b>	>100 °C (>212 °F)
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Density at 23 °C (73.4 °F):</b>	1.12 g/cm <sup>3</sup> (9.346 lbs/gal) (ISO 2811-2)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
<b>Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic at 25 °C (77 °F):</b>	920 mPas (ISO 3219)
<b>Kinematic:</b>	Not determined.
· <b>Other information</b>	No further relevant information available.

**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Reacts with strong oxidizing agents, alkali, amines and acids
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** strong oxidizing agents
- **Hazardous decomposition products:**  
none, if stored and handled correctly.  
in the event of fire:  
toxic gases and vapours

**11 Toxicological information**

- **Information on toxicological effects**
  - **Acute toxicity:**
  - **LD/LC50 values that are relevant for classification:**
- |   |      |                    |
|---|------|--------------------|
| <b>1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane</b> |      |                    |
| Oral  | LD50 | 15,000 mg/kg (rat) |
| Dermal  | LD50 | 23,000 mg/kg (rab) |

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**30583-72-3 Hydrogenated Bisphenol-A-Epoxy resin**

Oral	LD50	>5,300 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rab)

**Bisphenol F- Epoxyresin**

Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)

**16096-31-4 Hexanedioldigycidyl ether**

Oral	LD50	8,500 mg/kg (rat)
Dermal	LD50	>4,900 mg/kg (rab)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

1675-54-3	bis[4-(2,3-epoxypropoxy)phenyl]propane	3
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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information**

· **Toxicity**

· **Aquatic toxicity:**

**1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane**

Bakterientoxizität (Bacteria toxicity)	100 mg/l (Pseudomonas putida)
Daphnientoxizität (Daphnia toxicity)	1.8 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h))
Algtoxizität (Algae toxicity)	11 mg/l (Scenedesmus capricornutum) (EC50(72h))
Fischtoxizität (Fish toxicity)	2 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (LC50(96h))

**Bisphenol F- Epoxyresin**

Daphnientoxizität (Daphnia toxicity)	2.55 mg/l (Daphnia magna (Wasserfloh)) (LC50(48h))
Algtoxizität (Algae toxicity)	1.8 mg/l (Scenedesmus capricornutum) (LC50(72))
Fischtoxizität (Fish toxicity)	2.54 mg/l (Leuciscus idus) (EC50(96h))

**16096-31-4 Hexanedioldigycidyl ether**

Daphnientoxizität (Daphnia toxicity)	67 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h))
Algtoxizität (Algae toxicity)	23.1 mg/l (LC50(48h))
Fischtoxizität (Fish toxicity)	30 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (LC50(96h))

- **Persistence and degradability** No further relevant information available.
- **Other information:** The product is not easily biodegradable.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.

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**Trade name: Casting Epoxy Part A**

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- **Other information:** bioaccumulation possible
- **Ecotoxicological effects:** Not determined
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation:**  
For disposal, local regulations issued by the authorities must be observed. Dipose of liquid components at a suitable incineration plant. After curing, the product can be disposed of with household waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

· <b>UN-Number</b>	UN3082
· <b>DOT, ADR/RID/ADN, IMDG, IATA</b>	
· <b>UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (epoxy resin)
· <b>DOT</b>	
· <b>ADR/RID/ADN</b>	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O. S. (epoxy resin)
· <b>IMDG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O. S. (epoxy resin), MARINE POLLUTANT
· <b>IATA</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O. S.(epoxy resin)
· <b>Transport hazard class(es)</b>	
· <b>DOT, IMDG, IATA</b>	
· <b>Class</b>	9 Miscellaneous dangerous substances and articles
· <b>Label</b>	9
· <b>ADR/RID/ADN</b>	
· <b>Class</b>	9 (M6) Miscellaneous dangerous substances and articles

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**Trade name: Casting Epoxy Part A**

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· <b>Label</b>	9
· <b>Packing group</b> · <b>DOT, ADR/RID/ADN, IMDG, IATA</b>	III
· <b>Environmental hazards:</b>	Product contains environmentally hazardous substances: epoxy resin
· <b>Marine pollutant:</b>	Yes
· <b>Special marking (ADR/RID/ADN):</b>	Symbol (fish and tree)
· <b>Special marking (IATA):</b>	Symbol (fish and tree)
· <b>Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles
· <b>Hazard identification number (Kemler code):</b>	90
· <b>EMS Number:</b>	F-A,S-F
· <b>Stowage Category</b>	A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
· <b>Quantity limitations</b>	On passenger aircraft/rail: No limit On cargo aircraft only: No limit
· <b>Remarks:</b>	Special marking with the symbol (fish and tree).
· <b>ADR/RID/ADN</b>	
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXY RESIN), 9, III

**15 Regulatory information**

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

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· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **MAK (German Maximum Workplace Concentration)**

1675-54-3 bis[4-(2,3-epoxypropoxy)phenyl]propane 3A

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word Warning**

· **Hazard-determining components of labeling:**

bis[4-(2,3-epoxypropoxy)phenyl]propane  
Hydrogenated Bisphenol-A-Epoxy resin  
Bisphenol F- Epoxyresin  
Hexanedioldiglycidyl ether

· **Hazard statements**

Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.  
Wear protective gloves / eye protection / face protection.  
If on skin: Wash with plenty of water.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Take off contaminated clothing and wash it before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.  
Specific treatment (see on this label).  
If eye irritation persists: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

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Printing date 03/13/2020

Reviewed on 03/13/2020

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- **National regulations:**
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Changes made since last issue dated 02.10.2019 at the following points: \*

- **Department issuing SDS:**
- E4E Epoxy
- 654 W. Main St
- Palmyra, Pa 17078
- **Contact:** info@epoxydepotusa.com
- **Date of preparation / last revision** 03/13/2020 / -
- **Abbreviations and acronyms:**
- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- HMIS: Hazardous Materials Identification System (USA)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- NIOSH: National Institute for Occupational Safety
- OSHA: Occupational Safety & Health
- TLV: Threshold Limit Value
- PEL: Permissible Exposure Limit
- REL: Recommended Exposure Limit
- Skin Irrit. 2: Skin corrosion/irritation –Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation –Category 2A
- Skin Sens. 1: Skin sensitisation –Category 1
- **\* Data compared to the previous version altered.**