SAFETY DATA SHEET
EPO-TEK 320NC Part A

1. Identification

Product identifier
Product name  EPO-TEK 320NC Part A
Product number  320NC/A

Recommended use of the chemical and restrictions on use
Application  Adhesive.

Details of the supplier of the safety data sheet
Supplier  Epoxy Technology, Inc.
14 Fortune Drive
Billerica, MA 01821
USA
(978) 667-3805
(978) 663-9782
www.epotek.com, SDS@epotek.com

Emergency telephone number
Emergency telephone  +1 (800) 255-3924, +1 (813) 248-0585

2. Hazard(s) identification

Classification of the substance or mixture
Physical hazards  Not Classified
Health hazards  Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317
Environmental hazards  Aquatic Chronic 2 - H411

Label elements
Pictogram

Signal word  Danger

Hazard statements
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+P352 If on skin: Wash with plenty of water.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P501 Dispose of contents/ container in accordance with national regulations.
EPO-TEK 320NC Part A

Contains
Bisphenol A Diglycidyl Ether Resin, Reactive Diluent

Other hazards
Hazards not otherwise classified (HNOC)
Contains epoxy constituents. May produce an allergic reaction.

3. Composition/Information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol A Diglycidyl Ether Resin</td>
<td>10-30%</td>
</tr>
<tr>
<td>Classification</td>
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<tr>
<td>Skin Irrit. 2 - H315</td>
<td></td>
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<tr>
<td>Eye Irrit. 2 - H319</td>
<td></td>
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<tr>
<td>Skin Sens. 1 - H317</td>
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<tr>
<td>Aquatic Chronic 2 - H411</td>
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<tr>
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<tr>
<td>Reactive Diluent</td>
<td>10-30%</td>
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<tr>
<td>Classification</td>
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<tr>
<td>Acute Tox. 4 - H302</td>
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<tr>
<td>Acute Tox. 4 - H312</td>
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<tr>
<td>Acute Tox. 4 - H332</td>
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<tr>
<td>Skin Irrit. 2 - H315</td>
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<tr>
<td>Eye Dam. 1 - H318</td>
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<tr>
<td>Skin Sens. 1 - H317</td>
<td></td>
</tr>
</tbody>
</table>

The Full Text for all Hazard Statements are Displayed in Section 16.

4. First-aid measures

Description of first aid measures

General information
Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation
Move affected person to fresh air at once. Keep affected person warm and at rest. Get medical attention immediately.

Ingestion
Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately.

Skin Contact
Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

Eye contact
Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Most important symptoms and effects, both acute and delayed

Inhalation
Inhalation of dust during cutting, grinding or sanding operations involving this product may cause irritation of the respiratory tract. Gas or vapor in high concentrations may irritate the respiratory system.

Ingestion
May cause discomfort if swallowed.
Skin contact: Causes skin irritation. May cause sensitization by skin contact.

Eye contact: Causes serious eye irritation.

**Indication of immediate medical attention and special treatment needed**

Notes for the doctor: Treat symptomatically.

### 5. Fire-fighting measures

**Extinguishing media**


**Special hazards arising from the substance or mixture**

- **Hazardous combustion products**: Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2).

**Advice for firefighters**

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

- **Personal precautions**: Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Keep unnecessary and unprotected personnel away from the spillage.

- **Environmental precautions**: Do not discharge into drains or watercourses or onto the ground. Avoid release to the environment.

**Methods and material for containment and cleaning up**

- **Methods for cleaning up**: Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb in vermiculite, dry sand or earth and place into containers.

**Reference to other sections**

For personal protection, see Section 8.

### 7. Handling and storage

**Precautions for safe handling**

- **Usage precautions**: Handle all packages and containers carefully to minimize spills. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes.

- **Advice on general occupational hygiene**: Do not eat, drink or smoke when using this product. Wash promptly if skin becomes contaminated. Wash after use and before eating, smoking and using the toilet. Wash contaminated clothing before reuse. Use appropriate skin cream to prevent drying of skin.

**Conditions for safe storage, including any incompatibilities**

- **Storage precautions**: Store at room temperature. Keep container tightly sealed when not in use.

- **Specific end uses(s)**: The identified uses for this product are detailed in Section 1.2.

### 8. Exposure Controls/personal protection

**Ingredient comments**: No exposure limits known for ingredient(s).
EPO-TEK 320NC Part A

Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate general and local exhaust ventilation.

Eye/face protection
Wear tight-fitting, chemical splash goggles or face shield.

Hand protection
It is recommended that chemical-resistant, impervious gloves are worn.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures
Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

Respiratory protection
If ventilation is inadequate, suitable respiratory protection must be worn.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance
Paste.

Color
Black.

Odor
Mild.

Flash point
> 93°C

Evaporation rate
< BuAc

Other information
None.

10. Stability and reactivity

Reactivity
The following materials may react with the product: Strong oxidizing agents.

Stability
Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous reactions
Will not polymerize.

Conditions to avoid
Avoid excessive heat for prolonged periods of time.

Materials to avoid
Strong oxidizing agents.

Hazardous decomposition products
Thermal decomposition or combustion products may include the following substances:
Carbon monoxide (CO). Carbon dioxide (CO2).

11. Toxicological information

Information on toxicological effects
EPO-TEK 320NC Part A

Inhalation
Inhalation of dust during cutting, grinding or sanding operations involving this product may cause irritation of the respiratory tract. Gas or vapor in high concentrations may irritate the respiratory system.

Ingestion
May cause discomfort if swallowed.

Skin Contact
Causes skin irritation. May cause sensitization by skin contact.

Eye contact
Causes serious eye irritation.

12. Ecological Information

Ecotoxicity
Toxic to aquatic life with long lasting effects.

Toxicity
Acute toxicity - fish
Not available.

Persistence and degradability

Persistence and degradability
No data available.

Bioaccumulative potential
Bio-Accumulative Potential
No data available on bioaccumulation.

Mobility in soil
Mobility
No data available.

Other adverse effects

Other adverse effects
Not known.

13. Disposal considerations

Waste treatment methods

Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

UN Number
UN No. (DOT) 3082

UN No. (TDG) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN proper shipping name
EPO-TEK 320NC Part A

Proper shipping name (DOT)  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Bisphenol A Diglycidyl Ether Resin)
Proper shipping name (TDG)  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Bisphenol A Diglycidyl Ether Resin)
Proper shipping name (IMDG)  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Bisphenol A Diglycidyl Ether Resin)
Proper shipping name (ICAO)  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Bisphenol A Diglycidyl Ether Resin)

Transport hazard class(es)
TDG class  9
TDG label  9
IMDG Class  9
ICAO class/division  9

Transport labels

Packing group
DOT pack group  III
TDG Packing Group  III
IMDG packing group  III
ICAO packing group  III

Environmental hazards
Environmentally Hazardous Substance

Special precautions for user
EmS  F-A, S-F

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

15. Regulatory information

Regulatory References
Proprietary information protected pursuant to WTO's Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS), Section 7, Art. 39.

US Federal Regulations
SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are required to be listed.
EPO-TEK 320NC Part A

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
None of the ingredients are required to be listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are required to be listed.

SARA 313 Emission Reporting
None of the ingredients are required to be listed.

CAA Accidental Release Prevention
None of the ingredients are required to be listed.

OSHA Highly Hazardous Chemicals
None of the ingredients are required to be listed.

US State Regulations
California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are required to be listed.

California Air Toxics "Hot Spots" (A-I)
None of the ingredients are required to be listed.

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are required to be listed.

Massachusetts "Right To Know" List
None of the ingredients are required to be listed.

Rhode Island "Right To Know" List
None of the ingredients are required to be listed.

Minnesota "Right To Know" List
None of the ingredients are required to be listed.

New Jersey "Right To Know" List
None of the ingredients are required to be listed.

Pennsylvania "Right To Know" List
None of the ingredients are required to be listed.

Inventories
EU - EINECS/ELINCS
Some of the ingredients are listed or exempt.

Canada - DSL/NDSL
All the ingredients are listed or exempt.

US - TSCA
All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
None of the ingredients are listed.

Australia - AICS
All the ingredients are listed or exempt.
EPO-TEK 320NC Part A

Japan - MITI
Some of the ingredients are listed or exempt.

Korea - KECI
All the ingredients are listed or exempt.

China - IECSC
All the ingredients are listed or exempt.

Philippines - PICCS
All the ingredients are listed or exempt.

16. Other Information

<table>
<thead>
<tr>
<th>Revision date</th>
<th>3/8/2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision</td>
<td>1</td>
</tr>
</tbody>
</table>
| Hazard statements in full | H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H411 Toxic to aquatic life with long lasting effects. |
SAFETY DATA SHEET
EPO-TEK 320NC Part B

1. Identification

Product identifier
Product name EPO-TEK 320NC Part B
Product number 320NC/B

Details of the supplier of the safety data sheet
Supplier Epoxy Technology, Inc.
14 Fortune Drive
Billerica, MA 01821
USA
(978) 667-3805
(978) 663-9782
www.epotek.com, SDS@epotek.com

2. Hazard(s) identification

Classification of the substance or mixture
Physical hazards Not Classified
Health hazards Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317
Environmental hazards Aquatic Chronic 3 - H412

Label elements

Pictogram

Signal word Danger

Hazard statements
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/ container in accordance with national regulations.

Contains Trimethyl-1, 6-Hexanediamine

3. Composition/Information on ingredients

Mixtures
4. First-aid measures

Description of first aid measures

Inhalation Move affected person to fresh air at once. Rinse nose and mouth with water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Keep affected person warm and at rest. Get medical attention immediately.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention immediately.

Skin Contact Remove affected person from source of contamination. Rinse immediately with plenty of water. Get medical attention promptly if symptoms occur after washing.

Eye contact Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

Most important symptoms and effects, both acute and delayed

Inhalation Gas or vapor in high concentrations may irritate the respiratory system.

Ingestion Harmful if swallowed. May cause chemical burns in mouth, esophagus and stomach. May cause stomach pain or vomiting.

Skin contact Causes severe burns. May cause sensitization by skin contact.

Eye contact Severe irritation, burning and tearing. Corneal damage.

Indication of immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Dry chemicals. Foam. Carbon dioxide (CO2).

Special hazards arising from the substance or mixture

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2).

Advice for firefighters

Protective actions during firefighting Avoid breathing fire gases or vapors. Use water to keep fire exposed containers cool and disperse vapors.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
EPO-TEK 320NC Part B

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions
Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes. Keep unnecessary and unprotected personnel away from the spillage.

Environmental precautions
Avoid release to the environment. Do not discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up
Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Avoid contamination of ponds or watercourses with washing down water.

Reference to other sections
For personal protection, see Section 8.

7. Handling and storage

Precautions for safe handling

Usage precautions
Handle all packages and containers carefully to minimize spills. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes.

Advice on general occupational hygiene
Provide eyewash station and safety shower. Do not eat, drink or smoke when using this product. Wash promptly with soap and water if skin becomes contaminated. Wash contaminated clothing before reuse. Use appropriate skin cream to prevent drying of skin.

Conditions for safe storage, including any incompatibilities

Storage precautions
Store at room temperature. Keep container tightly sealed when not in use.

Specific end uses(s)
The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Ingredient comments
No exposure limits known for ingredient(s).

Exposure controls
Protective equipment

Appropriate engineering controls
Provide adequate general and local exhaust ventilation.

Eye/face protection
Wear tight-fitting, chemical splash goggles or face shield.

Hand protection
It is recommended that chemical-resistant, impervious gloves are worn.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures
Provide eyewash station and safety shower. Do not eat, drink or smoke when using this product. Wash promptly with soap and water if skin becomes contaminated. Wash after use and before eating, smoking and using the toilet. Wash contaminated clothing before reuse. Use appropriate skin cream to prevent drying of skin.
EPO-TEK 320NC Part B

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: Liquid.
Color: Clear liquid.
Odor: Pungent.
Flash point: > 93°C
Evaporation rate: < BuAc
Vapor density: >1
Solubility(ies): Slightly soluble in water.
Other information: None.

10. Stability and reactivity

Reactivity: The following materials may react with the product: Strong oxidizing agents. Strong reducing agents.
Stability: Stable at normal ambient temperatures and when used as recommended.
Possibility of hazardous reactions: Will not polymerize.
Conditions to avoid: Avoid excessive heat for prolonged periods of time.
Materials to avoid: Strong oxidizing agents. Strong reducing agents.

Hazardous decomposition products: Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of nitrogen.

11. Toxicological information

Information on toxicological effects

Inhalation: Gas or vapor in high concentrations may irritate the respiratory system.
Ingestion: Harmful if swallowed. May cause chemical burns in mouth, esophagus and stomach. May cause stomach pain or vomiting.
Skin Contact: May cause sensitization by skin contact. Causes burns.
Eye Contact: Severe irritation, burning and tearing. Causes burns. Risk of serious damage to eyes.

12. Ecological Information

Toxicity

Acute toxicity - fish: Not available.

Persistence and degradability
EPO-TEK 320NC Part B

Persistence and degradability
No data available.

Bioaccumulative potential
Bio-Accumulative Potential
No data available on bioaccumulation.

Mobility in soil
Mobility
No data available.

Other adverse effects
Other adverse effects
Not known.

13. Disposal considerations

Waste treatment methods
Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

UN Number
UN No. (DOT) 2327
UN No. (TDG) 2327
UN No. (IMDG) 2327
UN No. (ICAO) 2327

UN proper shipping name
Proper shipping name (DOT) TRIMETHYLHEXAMETHYLENEDIAMINES
Proper shipping name (TDG) TRIMETHYLHEXAMETHYLENEDIAMINES
Proper shipping name (IMDG) TRIMETHYLHEXAMETHYLENEDIAMINES
Proper shipping name (ICAO) TRIMETHYLHEXAMETHYLENEDIAMINES

Transport hazard class(es)
TDG class 8
TDG label 8
IMDG Class 8
ICAO class/division 8

Transport labels

Packing group
DOT pack group III
TDG Packing Group III
IMDG packing group III
ICAO packing group III
EPO-TEK 320NC Part B

Environmental hazards

Environmentally Hazardous Substance
No.

Special precautions for user
EmS F-A, S-B

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
None of the ingredients are listed.

CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)
None of the ingredients are listed.

SARA Extremely Hazardous Substances EPCRA Reportable Quantities
None of the ingredients are listed.

SARA 313 Emission Reporting
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CAA Accidental Release Prevention
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OSHA Highly Hazardous Chemicals
None of the ingredients are listed.

US State Regulations

California Proposition 65 Carcinogens and Reproductive Toxins
None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-I)
None of the ingredients are listed.

California Air Toxics "Hot Spots" (A-II)
None of the ingredients are listed.

Massachusetts "Right To Know" List
None of the ingredients are listed.

Rhode Island "Right To Know" List
None of the ingredients are listed.

Minnesota "Right To Know" List
None of the ingredients are listed.

New Jersey "Right To Know" List
All ingredients are listed.

Pennsylvania "Right To Know" List
None of the ingredients are listed.
EPO-TEK 320NC Part B

Inventories
EU - EINECS/ELINCS
All the ingredients are listed or exempt.

Canada - DSL/NDSL
All the ingredients are listed or exempt.

US - TSCA
All the ingredients are listed or exempt.

US - TSCA 12(b) Export Notification
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Australia - AICS
All the ingredients are listed or exempt.

Japan - MITI
None of the ingredients are listed.

Korea - KECI
None of the ingredients are listed.

China - IECSC
All the ingredients are listed or exempt.

Philippines - PICCS
None of the ingredients are listed.

16. Other information

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Hazard statements in full
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H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Epoxy Technology, Inc. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Epoxy Technology, Inc. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.