

SAFETY DATA SHEET EPO-TEK® 393ND-T Part A

1. Identification

Product identifier

Product name EPO-TEK® 393ND-T Part A

Product number 393ND-T/A

Recommended use of the chemical and restrictions on use

Application Adhesive.

Uses advised against

Use only for intended applications.

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 ChemTel: +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 Irrit. 2A - H319 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 2 - H411

Label elements

Hazard symbols





Signal word Warning

Hazard statements H315 Causes skin irritation.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302+P352 If on skin: Wash with plenty of water.

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. P337+P313 If eye irritation persists: Get medical advice/ attention.

P501 Dispose of contents/ container in accordance with national regulations.

Contains Epoxy Phenol Novolac

3. Composition/information on ingredients

Mixtures

Epoxy Phenol Novolac 60-100%

CAS number: 9003-36-5

Classification

Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation Remove affected person from source of contamination. Move affected person to fresh air and

keep warm and at rest in a position comfortable for breathing. Keep affected person under observation. Get medical attention. Show this Safety Data Sheet to the medical personnel. When breathing is difficult, properly trained personnel may assist affected person by

administering oxygen.

Ingestion Get medical attention immediately. Promptly get affected person to drink large volumes of

water to dilute the swallowed chemical. Do not induce vomiting.

Skin Contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

attention if irritation persists after washing.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Get medical attention. Show this Safety Data Sheet to the medical personnel.

Most important symptoms and effects, both acute and delayed

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

during cutting, grinding or sanding operations involving this product may cause irritation of the

respiratory tract.

Ingestion May cause discomfort if swallowed.

Skin contact Causes skin irritation. May cause an allergic skin reaction. May cause sensitisation 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

Suitable extinguishing media Extinguish with the following media: Dry chemicals. Foam. Carbon dioxide (CO2).

Special hazards arising from the substance or mixture

Hazardous combustion

products

When heated, vapors/gases hazardous to health may be formed.

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. Keep

unnecessary and unprotected personnel away from the spillage. Use suitable respiratory

protection if ventilation is inadequate.

Environmental precautions

Environmental precautions Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up No smoking, sparks, flames or other sources of ignition near spillage. Absorb spillage with

sand or other inert absorbent. Collect and place in suitable waste disposal containers and seal

securely.

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. Avoid inhalation of vapors and

contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety

data sheet.

Advice on general occupational hygiene

Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Wash promptly if skin becomes contaminated. Wash contaminated clothing before reuse.

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)

Specific end use(s) The identified uses for this product are detailed in Section 1.

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.

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

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

Neoprene. Butyl rubber.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures Provide eyewash station.

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.

Odor Slight.

Odor threshold No specific test data are available.

pH No specific test data are available.

Melting point No specific test data are available.

Initial boiling point and range No specific test data are available.

Flash point > 93°C

Evaporation rate < BuAc

Evaporation factor

No specific test data are available.

Flammability (solid, gas)

No specific test data are available.

Upper/lower flammability or

No specific test data are available.

explosive limits

explosive limits
Vapor pressure

No specific test data are available.

Vapor density > 1

Relative density

No specific test data are available.

Solubility(ies)

No specific test data are available.

Partition coefficient

No specific test data are available.

Auto-ignition temperature

No specific test data are available.

Decomposition Temperature No specific test data are available.

Viscosity No specific test data are available.

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.

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Conditions to avoid Avoid heat, flames and other sources of ignition.

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

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

during cutting, grinding or sanding operations involving this product may cause irritation of the

respiratory tract.

Ingestion May cause discomfort if swallowed.

Skin Contact Causes skin irritation. May cause an allergic skin reaction. May cause sensitisation by skin

contact.

Eye contact Causes serious eye irritation.

12. Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity

Acute toxicity - fish Not available.

Persistence and degradability

Persistence and degradability The product is potentially degradable.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Partition coefficient No specific test data are available.

Mobility in soil

Mobility Semi-mobile.

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. (TDG) 3082 UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (DOT) UN3082

UN proper shipping name

Proper shipping name (TDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy

Phenol Novolac)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy

Phenol Novolac)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy

Phenol Novolac)

Proper shipping name (DOT) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Epoxy

Phenol Novolac)

Transport hazard class(es)

DOT hazard class 9

DOT hazard label 9

TDG class 9

TDG label(s) 9

IMDG Class 9

ICAO class/division 9

Transport labels



DOT transport labels



Packing group

TDG Packing Group

IMDG packing group

ICAO packing group

DOT packing group III

Environmental hazards

Environmentally Hazardous Substance



Special precautions for user

EmS F-A, S-F

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

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.

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

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 or exempt.

Australia - AICS

All the ingredients are listed or exempt.

Japan - ENCS

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

Revision date 1/20/2021

Revision 1

Supersedes date 12/23/2020

Hazard statements in full H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

 $\ensuremath{\mathsf{H411}}$ Toxic to a quatic 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.



SAFETY DATA SHEET EPO-TEK® 393ND-T Part B

1. Identification

Product identifier

Product name EPO-TEK® 393ND-T Part B

Product number 393ND-T/B

Recommended use of the chemical and restrictions on use

Application Adhesive.

Uses advised against Use only for intended applications.

Details of the supplier of the safety data sheet

Supplier Epoxy Technology, Inc.

14 Fortune Drive Billerica, MA 01821

USA

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www.epotek.com, SDS@epotek.com

Emergency telephone number

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

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318

Environmental hazards Not Classified

Label elements

Hazard symbols





Signal word Danger

Hazard statements H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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Precautionary statements P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301+P312 If swallowed: Call a poison center/ doctor if you feel unwell.

P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P501 Dispose of contents/ container in accordance with national regulations.

Contains Substituted Imidazole Blend

3. Composition/information on ingredients

Mixtures

Substituted Imidazole Blend 30-60%

CAS number: Proprietary

Classification

Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318

The full text for all hazard statements is displayed in Section 16.

4. First-aid measures

Description of first aid measures

Inhalation Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical

attention if any discomfort continues.

Ingestion Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse

mouth thoroughly with water. Get medical attention if any discomfort continues.

Skin Contact Remove affected person from source of contamination. Remove contaminated clothing. Wash

skin thoroughly with soap and water. Get medical attention if irritation persists 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. Get medical attention

immediately. Continue to rinse.

Most important symptoms and effects, both acute and delayed

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

during cutting, grinding or sanding operations involving this product may cause irritation of the

respiratory tract.

Ingestion Harmful if swallowed. May cause stomach pain or vomiting. May cause chemical burns in

mouth and throat.

Skin contact Causes skin irritation.

Eye contact Causes serious eye damage.

Indication of immediate medical attention and special treatment needed

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Extinguish with the following media: Dry chemicals. Foam. Water spray.

Special hazards arising from the substance or mixture

Hazardous combustion

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapors.

Advice for firefighters

Protective actions during

firefighting

products

Avoid breathing fire gases or vapors.

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 precautionsWear protective clothing as described in Section 8 of this safety data sheet.

Environmental precautions

Environmental precautions Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into

containers. Flush contaminated area with plenty of water. Avoid the spillage or runoff entering

drains, sewers or watercourses.

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. Avoid inhalation of vapors and

contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety

data sheet.

Advice on general occupational hygiene

Provide eyewash station. Do not eat, drink or smoke when using this product. Wash promptly 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.

Storage class Chemical storage.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.

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.

EPO-TEK® 393ND-T Part B

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. Do not smoke in work area. Wash at the end of each work shift and

before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. 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 Liquid.

Color Clear.

Odor Slight.

Odor threshold No specific test data are available.

pH No specific test data are available.

Melting point No specific test data are available.

Initial boiling point and range No specific test data are available.

Flash point > 93°C

Evaporation rate < BuAc

Flammability (solid, gas) No specific test data are available.

Upper/lower flammability or

explosive limits

No specific test data are available.

Vapor pressure No specific test data are available.

Vapor density >1

Relative density No specific test data are available.

Solubility(ies) Slightly soluble in water.

Partition coefficient

No specific test data are available.

Auto-ignition temperature

No specific test data are available.

Decomposition Temperature

No specific test data are available.

Viscosity

No specific test data are available.

Other information None.

10. Stability and reactivity

Reactivity The following materials may react violently with the product: Acids. Alkalis. Strong oxidizing

agents. Strong reducing agents.

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

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Possibility of hazardous

reactions

Will not polymerize.

Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid heat. Avoid contact with the following

materials: Strong oxidizing agents.

Materials to avoid Strong acids. Strong alkalis. Strong oxidizing agents. Strong reducing agents.

Hazardous decomposition

products

Thermal decomposition or combustion products may include the following substances: Oxides

of carbon. Oxides of nitrogen.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 690.4

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

during cutting, grinding or sanding operations involving this product may cause irritation of the

respiratory tract.

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

cause stomach pain or vomiting.

Skin Contact Irritating to skin.

Eye contact Causes serious eye damage.

12. Ecological information

Ecotoxicity Not regarded as dangerous for the environment.

Acute aquatic toxicity

Acute toxicity - fish Not available.

Persistence and degradability

Persistence and degradability The product is moderately biodegradable.

Bioaccumulative potential

Bio-Accumulative Potential The product is not bioaccumulating.

Partition coefficient No specific test data are available.

Mobility in soil

Mobility Mobile.

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

EPO-TEK® 393ND-T Part B

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, DOT).

UN Number

UN No. (International) Not applicable. UN No. (DOT) Not applicable.

UN proper shipping name

Proper shipping name

Not applicable.

(International)

Proper shipping name (DOT) Not applicable.

Transport hazard class(es)

Transport Labels

(International)

No transport warning sign required.

DOT transport labels

No transport warning sign required.

Packing group

Packing group (International) Not applicable.

DOT packing group Not applicable.

Environmental hazards

Environmentally Hazardous Substance

Special precautions for user

Not applicable.

DOT reportable quantity Not applicable.

DOT TIH Zone Not applicable.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities

None of the ingredients are required to be listed.

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

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

None of the ingredients are listed.

Australia - AICS

All the ingredients are listed or exempt.

Japan - ENCS

All 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

Revision date 1/20/2021

Revision 1

Supersedes date 12/23/2020

Hazard statements in full H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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.