

SAFETY DATA SHEET EPO-TEK 301 Part A

1. Identification

Product identifier

Product name EPO-TEK 301 Part A

Product number 301/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 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 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

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

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.

EPO-TEK 301 Part A

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. P310 Immediately call a poison center/ doctor.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P301+P310 If swallowed: Immediately call a poison center/ doctor.

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

Contains Bisphenol A Diglycidyl Ether Resin, Reactive Diluent

3. Composition/information on ingredients

Mixtures

Bisphenol A Diglycidyl Ether Resin

60-100%

CAS number: 25085-99-8

Classification

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

Reactive Diluent 30-60%

CAS number: Proprietary

Classification

Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317

The Full Text for all Hazard Statements are 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 any discomfort continues.

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 Irritation of nose, throat and airway. Vapors may cause headache, fatigue, dizziness and

nausea. Difficulty in breathing.

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Ingestion May cause stomach pain or vomiting. May cause nausea, headache, dizziness and

intoxication.

Skin contact Skin irritation. Allergic rash. Blistering may occur.

Eye contact Severe irritation, burning and tearing. Corneal 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

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

Advice for firefighters

Protective actions during

firefighting

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

Environmental precautions

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 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 Avoid spilling. Avoid contact with skin and eyes. Keep away from heat, sparks and open

flame. Do not eat, drink or smoke when using the product. Avoid inhalation of vapors. Provide

adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage precautions Store at moderate temperatures in dry, well ventilated area. 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 1.2.

EPO-TEK 301 Part A

8. Exposure Controls/personal protection

Exposure controls

Protective equipment





Appropriate engineering

controls

Provide adequate ventilation.

Eye/face protection Wear ti

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

Hand protection Wear protective gloves.

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 hands 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 liquid.

Odor Slight.

Flash point > 110°C

Evaporation rate <BuAc

Solubility(ies) Insoluble in water.

Other information None.

10. Stability and reactivity

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

Stability Stable at normal ambient temperatures.

Possibility of hazardous

reactions

Will not polymerize.

Conditions to avoid Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of

ignition.

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

Hazardous decomposition

products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 1,666.67

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

ATE inhalation (gases ppm) 15,000.0
ATE inhalation (vapours mg/l) 36.67
ATE inhalation (dusts/mists 5.0

mg/l)

InhalationHarmful by inhalation.IngestionHarmful if swallowed.

Skin Contact May cause sensitisation by skin contact. Irritating to skin. Harmful in contact with skin.

Eye contact Risk of serious damage to eyes.

12. Ecological Information

Ecotoxicity Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity

Toxicity Very toxic to aquatic organisms.

Persistence and degradability

Persistence and degradability No data available.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Mobility in soil

Mobility The product has poor water-solubility.

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

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)

DOT hazard class 9

DOT hazard label Class 9

TDG class 9

TDG label 9

IMDG Class 9

ICAO class/division 9

Transport labels



Packing group

DOT pack group

TDG Packing Group

IMDG packing group

ICAO packing group

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

International Regulations

Additional 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 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

None of the ingredients are listed.

CAA Accidental Release Prevention

None of the ingredients are listed.

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

None of the ingredients are listed.

Pennsylvania "Right To Know" List

None of the ingredients are 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.

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

Revision date 4/25/2016

Revision 3

Supersedes date 11/19/2014

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.

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SAFETY DATA SHEET EPO-TEK 301 Part B

1. Identification

Product identifier

Product name EPO-TEK 301 Part B

Product number 301/B

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 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.

EPO-TEK 301 Part B

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

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

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

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.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/ container in accordance with national regulations.

Contains Trimethyl-1, 6-Hexanediamine

3. Composition/information on ingredients

Mixtures

Trimethyl-1, 6-Hexanediamine 60-100%

CAS number: 25513-64-8

Classification

Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412

The Full Text for all Hazard Statements are 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. 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 Vapors may cause headache, fatigue, dizziness and nausea.

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

stomach.

Skin contact Burns can occur. Allergic rash. Severe irritation.

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

Special hazards arising from the substance or mixture

Specific hazards No unusual fire or explosion hazards noted.

Hazardous combustion

products

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Fire creates: Toxic gases/vapors/fumes of: Ammonia or amines.

Advice for firefighters

Protective actions during

firefighting

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

Environmental precautions

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

Avoid release to the environment.

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 Do not handle broken packages without protective equipment. Avoid spilling. Avoid contact

with skin and eyes. Keep away from heat, sparks and open flame. Do not eat, drink or smoke

when using the product. Avoid inhalation of vapors. Provide adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage precautions Store at moderate temperatures in dry, well ventilated area. Keep container tightly sealed

when not in use.

Storage class Corrosive storage.

Specific end uses(s)

Specific end use(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 Wear protective gloves made of the following material: Nitrile rubber. Viton rubber (fluoro

rubber). Polyvinylidene chloride/polyethylene (PVDC/PE).

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measuresWash 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 wet or contaminated.

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 Amine. Flash point > 104°C

Evaporation rate <BuAc

Vapor density >1

Solubility(ies) Miscible with water.

Other information None.

10. Stability and reactivity

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

oxidizing agents. Strong reducing agents.

Stability Stable at normal ambient temperatures.

Possibility of hazardous

reactions

Will not polymerize.

Conditions to avoid Avoid contact with acids and alkalis. Avoid contact with the following materials: Oxidizing

agents. Reducing agents. Avoid heat, flames and other sources of ignition. Avoid excessive

heat for prolonged periods of time.

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

Hazardous decomposition

products

Ammonia or amines.

11. Toxicological information

Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 500.0

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

Ingestion Causes burns. May cause chemical burns in mouth and throat. May cause stomach pain or

vomiting.

Skin Contact May cause sensitisation by skin contact. Causes burns. Harmful in contact with skin. May

cause sensitisation by skin contact.

Eye contact Causes burns. Risk of serious damage to eyes.

12. Ecological Information

Ecotoxicity Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Toxicity

Acute toxicity - fish Not available.

Persistence and degradability

Persistence and degradability The product is biodegradable.

Bioaccumulative potential

Bio-Accumulative Potential The product is not bioaccumulating.

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

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

EPO-TEK 301 Part B

Proper shipping name

TRIMETHYLHEXAMETHYLENEDIAMINES

(IMDG)

Proper shipping name (ICAO) TRIMETHYLHEXAMETHYLENEDIAMINES

Transport hazard class(es)

DOT hazard class 8

DOT hazard label Corrosive

TDG class 8

TDG label 8

IMDG Class 8

ICAO class/division 8

Transport labels



Packing group

DOT pack group

TDG Packing Group III

IMDG packing group III

ICAO packing group

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

EmS F-A, S-B

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

15. Regulatory information

International Regulations

Additional 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 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

None of the ingredients are listed.

CAA Accidental Release Prevention

None of the ingredients are listed.

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.

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 - 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

Revision date 4/25/2016

Revision 3

Supersedes date 11/19/2014

Hazard statements in full H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

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.