

Concrete 10LV Epoxy Part A

MSDS No: 032 VERSION: 032-01 VERSION DATE: 09/19/11 SUPERSEDES: 06/08/10

SECTION 1: IDENTIFICATION OF PRODUCT AND COMPANY

Material/Trade Name: Concrete 10LV Epoxy Part A

Material Type: Epoxy Adhesive

Company: Republic Chemical Industries, Inc.

Address: 731 Aurora Boulevard, Quezon City, 1112 Philippines

 Telephone:
 +63 2 721 5781 to 86

 Fax:
 +63 2 727 5095

 Website:
 www.repchem.com

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Flammability Category – Not classified

Acute Toxicity – Oral: Category 5
Acute Toxicity – Dermal: Category 5

Skin Corrosion: Category – Not classified

Skin Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2B

Sensitization – Respiratory Category – Not classified

Sensitization – Skin: Category 1

STOT – Single Exposure: Category – Not classified STOT – Repeated Exposure: Category – Not classified

Aspiration Hazard: Category – Classification not possible

Aquatic Toxicity - Acute: Category 2

Hazard Symbol/ Signal Word:



WARNING!

Hazard Statement:

Maybe harmful if swallowed. Maybe harmful in contact with skin Causes skin irritation.

Causes eye irritation.

May cause an allergic skin reaction.

Toxic to aquatic life.

Precautionary Statement:

Prevention:

Contaminated work clothing should not be allowed out of the working place.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid release to the environment.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water.

IF ON CLOTHING: Take off contaminated clothing and wash before use.

If skin irritation or rash occurs: Get medical advice/attention.

10LV Epoxy Part A Page 1 of 4



Concrete 10LV Epoxy Part A

MSDS No: 032 VERSION: 032-01 VERSION DATE: 09/19/11 SUPERSEDES: 06/08/10

If eye irritation persists: Get medical advice/attention.

Call a POISON CENTER or doctor/physician if you feel unwell.

SECTION 3: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Identity CAS no. Concentration (%)

Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers 25085-99-8 60%

SECTION 4: FIRST AID MEASURES

Eye: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Skin: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get

medical attention.

Inhalation: Moved to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: If swallowed, do not induce vomiting. If vomiting occurs spontaneously, head below hips to prevent aspiration into

lungs. Never give anything by mouth to an unconscious person. Call a physician immediately.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: >150°C Closed Cup.
Autoignition temperature: Not available

Extinguishing Media: Water spray, foam, dry chemical or carbon dioxide.

Special Fire fighting Procedure: Fire fighters should wear self-contained breathing apparatus.

Hazardous thermal

Decomposition Products: Carbon dioxide, carbon monoxide and oxides of nitrogen.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Remove all sources of ignition.

Wear appropriate personal protective equipment as specified in Section 8.

Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Contain and recover liquid when possible. Use non-sparking tools and equipment.

Collect liquid in an appropriate container or absorb with an inert material (dry sand, earth), and place in a chemical waste container.

Do not use combustible materials, such as saw dust.

Do not flush to sewer. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

SECTION 7: HANDLING AND STORAGE

Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute.

Outside or detached storage is preferred.

Separate from incompatibles.

Containers should be bonded and grounded for transfers to avoid static sparks.

Storage and use areas should be No Smoking areas.

Use non-sparking type tools and equipment, including explosion proof ventilation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face Protection: Safety goggles/glasses suitable for use with chemicals.

Respiratory Protection: Always use appropriate Filter Mask/respirator (NIOSH/MSHA Approved).

Skin Protection: Nitrile/polyethylene gloves, coveralls, avoid cotton products. **Ventilation:** Good general or local exhaust ventilation is required for usage.

10LV Epoxy Part A Page 2 of 4



Concrete 10LV Epoxy Part A

MSDS No: 032 VERSION: 032-01 VERSION DATE: 09/19/11 SUPERSEDES: 06/08/10

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form: Soft Paste **Oxidizing Properties:** Not available Color: **Vapor Pressure:** Not available Beige Odor: Light odor Vapor Density: Not available **Odor Threshold:** Not available **Relative Density:** 1.45 **Boiling Point:** Not available **Solubility in Water:** Not miscible **Melting Point:** Not available **Partition Coefficient:** Not available >150°C Flash Point: **Auto-ignition Temperature:** Not available **Evaporation Rate:** Not available **Decomposition Temperature:** Not available Not available Not available Flammability: Viscosity: **Explosion Limits:** Not available

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.

Hazard Polymerization: Will not occur.

Incompatibility: Strong acids, heat, strong oxidizing agents.

Hazardous Decomposition

Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral: LD50 (rat): >5,000 mg/kg *Dermal:* LD50 (rabbit): >20,000 mg/kg

Inhalation: No data is available on the product itself.

Corrosivity/Irritation:

Eyes: Irritant effect.

Skin: Irritant to skin and mucous membrane.

Respiratory Tract: No data available on the product itself.

Skin Sensitization: Has caused allergic skin reactions in humans.

Chronic Toxicity: Not classified as a carcinogen.

STOT – Single Exposure: No data available.

STOT – Repeated Exposure: Except for skin sensitization, repeated exposures are not anticipated to cause any insignificant

adverse effects.

Mutagenecity: Animal genetic toxicity studies were negative.

Carcinogenicity: Not classified as a carcinogen.

Reproductive Toxicity: In animal studies, did not interfere with reproduction.

SECTION 12: ECOLOGICAL INFORMATION

Acute Toxicity:

Daphnia:EC50 (48h): 1.4 – 1.7 mg/LFish:LC50 (96h): 3.1 mg/L

The material is moderately toxic to aquatic organisms on an acute basis. Toxicity to aquatic species occurs at concentrations above material's water solubility.

10LV Epoxy Part A Page 3 of 4



Concrete 10LV Epoxy Part A

MSDS No: 032 VERSION: 032-01 VERSION DATE: 09/19/11 SUPERSEDES: 06/08/10

SECTION 13: DISPOSAL CONSIDERATIONS

Must not be disposed together with household garbage.

Do not discharge into drains or watercourses.

Disposal must be made according to official regulations.

SECTION 14: TRANSPORTATION INFORMATION

IATA-DGR Not regulated IMDG Not regulated

SECTION 15: REGULATORY INFORMATION

Chemical Inventory:

PICCS (Philippines): Listed
EINECS (EU): Listed
KECI (KR): Listed
TSCA (US): Listed
DSL (CN): Listed
ENCS (JP): Listed

SECTION 16: OTHER INFORMATION

The information contained in this MSDS is based on our present knowledge. It was obtained from a variety of sources and is believed to be accurate and current at the stated version date. This data is provided without warranty for the use of this information, application or processing described in this MSDS. Users should note the possibility of hazards occurring due to improper use of the product.

Department issuing MSDS: Research and Development Department

Contact: *Marketing Department*

ABBREVIATIONS AND ACRONYMS:

PICCS – PHILIPPINE INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES
EINECS – EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES
KECI – KOREAN EXISTING CHEMICALS LIST
TSCA – TOXIC SUBSTANCES CONTROL ACT
DSL – DOMESTIC SUBSTANCES LIST
ENCS – JAPANESE EXISTING AND NEW CHEMICALS SUBSTANCES

10LV Epoxy Part A Page 4 of 4



Concrete 10LV Epoxy Part B

MSDS No: 033 VERSION: 033-01 VERSION DATE: 09/15/11 SUPERSEDES: 06/08/10

SECTION 1: IDENTIFICATION OF PRODUCT AND COMPANY

Material/Trade Name: Concrete 10LV Epoxy Part B

Material Type: Epoxy Adhesive

Company: Republic Chemical Industries, Inc.

Address: 731 Aurora Boulevard, Quezon City, 1112 Philippines

 Telephone:
 +63 2 721 5781 to 86

 Fax:
 +63 2 727 5095

 Website:
 www.repchem.com

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Flammability Category – Not classified

Acute Toxicity – Oral/Dermal Category 5

Skin Corrosion: Category – Not classified

Skin Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2A
Sensitization – Skin: Category 1

STOT – Single/Repeated Exposure: Category – Classification not possible
Aspiration Hazard: Category – Classification not possible
Aquatic Toxicity - Acute: Category – Classification not possible

Hazard Symbol/ Signal Word:



WARNING!

Hazard Statement:

Maybe harmful if swallowed Maybe harmful in contact with skin Causes skin irritation Causes eye irritation May cause an allergic skin reaction

Precautionary Statement:

Prevention:

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves/protective clothing.

Wear eye/face protection.

Response:

If on skin: Wash with plenty of soap and water

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin/eye irritation occurs: Get medical attention
If skin irritation or rash occurs: Get medical attention

10LV Epoxy Part B Page 1 of 4



Concrete 10LV Epoxy Part B

MSDS No: 033 VERSION: 033-01 VERSION DATE: 09/15/11 SUPERSEDES: 06/08/10

SECTION 3: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Identity CAS no. Concentration (%)

Triethylenetetramine 112-24-3 1 - 5

SECTION 4: FIRST AID MEASURES

Eye: Rinse opened eye continuously under running water for at least 30 minutes. Remove the contact lenses after the

first 5 minutes and continue washing. If symptoms persist, consult a doctor, preferably from an ophthalmologist.

Skin: Immediately flush skin with plenty of water for at least 30 minutes. Remove contaminated clothing and shoes. Get

medical attention.

Inhalation: Moved to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial

respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: If swallowed, do not induce vomiting. If vomiting occurs spontaneously, head below hips to prevent aspiration into

lungs. Never give anything by mouth to an unconscious person. Call a physician immediately.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: 200°C Closed Cup. **Autoignition temperature:** Not available

Extinguishing Media: Water spray, foam, dry chemical or carbon dioxide.

Special Fire fighting Procedure: Fire fighters should wear self-contained breathing apparatus.

Hazardous thermal

Decomposition Products: Carbon dioxide, carbon monoxide and oxides of nitrogen.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Remove all sources of ignition.

Wear appropriate personal protective equipment as specified in Section 8.

Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Contain and recover liquid when possible. Use non-sparking tools and equipment.

Collect liquid in an appropriate container or absorb with an inert material (dry sand, earth), and place in a chemical waste container.

Do not use combustible materials, such as saw dust.

Do not flush to sewer. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures.

SECTION 7: HANDLING AND STORAGE

Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute.

Outside or detached storage is preferred.

Separate from incompatibles.

Containers should be bonded and grounded for transfers to avoid static sparks.

Storage and use areas should be No Smoking areas.

Use non-sparking type tools and equipment, including explosion proof ventilation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/Face Protection: Safety goggles/glasses suitable for use with chemicals.

Respiratory Protection: Always use appropriate Filter Mask/respirator (NIOSH/MSHA Approved).

Skin Protection:Nitrile/polyethylene gloves, coveralls, avoid cotton products.Ventilation:Good general or local exhaust ventilation is required for usage.

10LV Epoxy Part B Page 2 of 4



Concrete 10LV Epoxy Part B

MSDS No: 033 VERSION: 033-01 VERSION DATE: 09/15/11 SUPERSEDES: 06/08/10

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form: Viscous liquid **Oxidizing Properties:** Not available Color: **Amber Vapor Pressure:** <10.34 mmHg Odor: **Irritating** Vapor Density: Not available **Odor Threshold:** Not available **Relative Density:** 1.37

Boiling Point:> 176.67 °CSolubility in Water:Slightly solubleMelting Point:Not availablePartition Coefficient:Not available

Melting Point:Not availablePartition Coefficient:Not availableFlash Point:200°CAuto-ignition Temperature:Not availableEvaporation Rate:Not availableDecomposition Temperature:Not available

Flammability: Not available Viscosity: 9,000 – 11,000 cps @40°C Explosion Limits: Not available

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.

Hazard Polymerization: Will not occur.

Incompatibility: Strong acids, heat, strong oxidizing agents.

Hazardous Decomposition

Products: Carbon dioxide and carbon monoxide may form when heated to decomposition.

Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: No data is available on the product itself.

- Triethylenetetramine

Oral LD50 (rat): 2,780 mg/kg

Dermal: LD50 (rabbit): 550 – 805 mg/kg

Inhalation: No data is available on the product itself.

Corrosivity/Irritation:

Eyes: May cause eye irritation Skin: May cause skin irritation

Respiratory Tract: No data available on the product itself

Skin Sensitization: Sensitization has occurred in laboratory animals after repeated exposure.

Aspiration Hazard:

Chronic Toxicity:

No data available on the product itself

Mutagenecity: Results from a battery of short term genotoxicity tests on this material or its components

indicate mutagenic activity.

Carcinogenicity: No data available.

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity: No data is available on the product itself

SECTION 13: DISPOSAL CONSIDERATIONS

Must not be disposed together with household garbage.

Do not discharge into drains or watercourses.

Disposal must be made according to official regulations.

10LV Epoxy Part B Page 3 of 4



Concrete 10LV Epoxy Part B

MSDS No: 033 VERSION: 033-01 VERSION DATE: 09/15/11 SUPERSEDES: 06/08/10

SECTION 14: TRANSPORTATION INFORMATION

IATA-DGR Not regulated IMDG Not regulated

SECTION 15: REGULATORY INFORMATION

Chemical Inventory:

PICCS (Philippines): Listed
EINECS (EU): Listed
KECI (KR): Listed
TSCA (US): Listed
DSL (CN): Listed
ENCS (JP): Listed

SECTION 16: OTHER INFORMATION

The information contained in this MSDS is based on our present knowledge. It was obtained from a variety of sources and is believed to be accurate and current at the stated version date. This data is provided without warranty for the use of this information, application or processing described in this MSDS. Users should note the possibility of hazards occurring due to improper use of the product.

Department issuing MSDS: Research and Development Department

Contact: *Marketing Department*

ABBREVIATIONS AND ACRONYMS:

PICCS – PHILIPPINE INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES
EINECS – EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES
KECI – KOREAN EXISTING CHEMICALS LIST
TSCA – TOXIC SUBSTANCES CONTROL ACT
DSL – DOMESTIC SUBSTANCES LIST
ENCS – JAPANESE EXISTING AND NEW CHEMICALS SUBSTANCES

10LV Epoxy Part B Page 4 of 4