



**SAFETY DATA SHEET
QUICSEAL 640 – PART A
STONE BINDER**

1. INFORMATION OF THE SUBSTANCE/COMPOUND AND THE SUPPLIER

Product Name: QUICSEAL 640 – Stone Binder (Part A)

Product Use: Part A of a two-component solvent-based adhesive for binding pebbles & aggregates

Details of the supplier:

*QUICSEAL CONSTRUCTION CHEMICALS PTE LTD
No. 7 Eunos Avenue 8A
Eunos Industrial Estate
Singapore 409460*

Emergency Contact No.: (65) 6742 4466

2. HAZARDS IDENTIFICATION

GHS Classification:

Skin irritation – Category 2

Eye irritation – Category 2

Skin sensitization – Category 1

Chronic aquatic toxicity – Category 2

GHS LABEL ELEMENTS

Symbol(s):



Signal Word

Warning

Hazard Statements:

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H319: Causes serious eye irritation

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention

P261: Avoid breathing fume/mist/vapours/spray.

P264: Wash hands and forearms thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

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Response

P302+P352: IF ON SKIN: Wash with plenty of soap and 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. Immediately call a poison center or doctor/physician.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

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

P362: Take off contaminated clothing and wash before reuse.

P391: Collect spillage.

Disposal

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

This product contains the following components classified as hazardous:

COMPONENTS	CAS No.	EINECS No.	Index No.	Percentage
Bisphenol A epoxy resin	25068-38-6	500-033-5	603-074-00-8	Proprietary

4. FIRST-AID MEASURES**General information**

Take person to a safe place. Observe self-protection for first aid. Always seek medical advice in the event of contact with this substance.

Inhalation

Keep the patient calm. If unconscious place in stable sideways position. Protect against loss of body heat. If breathing stops, administer artificial respiration. Seek medical advice immediately and clearly identify substance.

Skin contact

Remove contaminated clothes at once. Wash off with plenty of water or water and soap immediately for 10-15 minutes. In serious cases, use emergency shower immediately. Seek medical advice immediately and clearly identify substance.

Eye contact

Rinse immediately with plenty of water for 10-15 minutes. Keep eyelids well open to rinse the whole eye surface and eyelids with water. Seek medical advice immediately and clearly identify substance. Continue to bathe eyes during transport to medical practitioner.

Ingestion

If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice immediately and clearly identify substance.

Notes to physician

Treat patient symptomatically (decontamination, vital functions).

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5. FIRE-FIGHTING MEASURES

General Fire Hazards

If material is involved in fire, do not breathe fumes.

Suitable Fire-extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

Advice for fire-fighters

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use a solid water stream as it may scatter and spread fire.

Further information

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Emergency Measures

Emergency and non-emergency responders should use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours/aerosol.

Personal Precautions and Protective equipment

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

Environmental Precautions

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material.

Methods and materials for containment and cleaning up

Carefully contain and stop the source of the spill, if safe to do so.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Keep in suitable and closed containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Plan first aid action before beginning work with this product. Wear personal protective equipment. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Keep out of reach of children. Store in a place accessible by authorized persons only. Store in original container. Keep tightly closed in a dry and cool place. Store away from oxidising agents, strongly alkaline and strongly acid materials. Shelf life up to 2 years from date of manufacture.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters / Occupational Exposure Limits

This product has no component with relevant occupational exposure limits.

Occupational Exposure Controls

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.

Personal Protective Equipment:

Hand Protection

Protective gloves complying with EN 374. Gloves made of Nitril.
Break through time: > 4 h.

Eye Protection

Safety glasses with side-shields conforming to EN 166. Eye wash bottle with pure water.

Skin / Body Protection

Long sleeved clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory Protection

No personal respiratory protective equipment normally required. Breathing apparatus needed only when aerosol or mist is formed. Respirator with A/P2 filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Yellowish
Odour:	Slight
Flash Point:	150°C
Initial boiling point and boiling range:	Not available
Freezing / Melting point:	Not available
Autoignition temperature:	Not available
Flammability Limits:	Not available
Vapor pressure (20°C):	Not available
Vapor density:	Not available
Water Solubility (25°C):	Not soluble
Specific Gravity:	Approx. 1.16

10. STABILITY AND REACTIVITY

Chemical stability

Stable at normal conditions. No decomposition if stored and applied as directed.

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Possibility of hazardous reactions

No hazardous reactions are expected under normal conditions of handling and storage. Keep away from strong oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Conditions to avoid

Avoid temperatures above 60°C, direct sunlight and contact with sources of heat. Burning produces obnoxious and toxic fumes.

Incompatible materials

Oxidising agents, strongly alkaline and strongly acid materials.

Hazardous decomposition products

None under normal use. Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke) may be liberated when product is involved in fire.

11. TOXICOLOGICAL INFORMATION

This product has not been tested and all the toxicological statements have been derived from the respective components' available toxicity information.

Acute toxicity

Experimental/calculated data:

LD50, oral: > 5,000 mg/kg (the product is not harmful if ingested)

LD50, dermal: > 5,000 mg/kg (the product is not harmful in contact with skin)

LC50, inhalation: > 20 mg/L (the product is not harmful if inhaled)

Skin and Eye Irritation

The product contains the following components with their respective skin and eye corrosion/irritation classification:

COMPONENTS	CAS No.	Animal skin test result	Animal eye test result
Bisphenol A epoxy resin	25068-38-6	Moderate Irritant (Skin Irritant Category 2)	Moderate Irritant (Skin Irritant Category 2)

Respiratory / Skin sensitization

The product's components may cause an allergic skin reaction. This product is not expected to cause allergy or asthma symptoms or breathing difficulties if accidentally inhaled.

Germ cell mutagenicity / Carcinogenicity / Reproductive toxicity / Developmental toxicity

Based on the assessment of available information, the product is: not mutagenic in bacteria; has no known carcinogenic effect; and not expected to cause reproductive and developmental toxicity.

Specific target organ toxicity (single and repeated exposure)

Based on the available information, there is no specific target organ toxicity expected after a single or repeated exposure to the product.

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12. ECOLOGICAL INFORMATION

The following ecological assessment is based on the available ecotoxicity information of the product's components.

Chronic toxicity to the aquatic environment

The product's major components are classified as Category 2 chronic aquatic toxicants. By estimation this product is considered toxic to aquatic life with long lasting effects (Chronic toxicity to the aquatic environment Category 2)

13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling & methods of disposal

Dispose of the product through licensed hazardous waste collectors under Singapore regulations. Provide the hazardous waste collector the sufficient information on the various hazards of this product.

Disposal of any contaminated packaging

Dried material can be disposed off in authorized landfill site in accordance to national regulations. Container should be recycled after cleaning or dispose of the container through licensed hazardous waste collectors under Singapore regulations. Provide the hazardous waste collector the sufficient information on the various hazards of this product in this container.

14. TRANSPORT INFORMATION

Land Transport (ADR):

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MIXTURE (Epoxy resin)

UN Number: 3082
Hazard Class: 9
Packing Group: III

Air Transport (IATA):

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MIXTURE (Epoxy resin)

UN Number: 3082
Hazard Class: 9
Packing Group: III
Packing instructions: Passenger aircraft: 964 (450 L)
LQ: Y964 (30 kg G)
Cargo aircraft: 964 (450 L)

Sea transport (IMDG):

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MIXTURE (Epoxy resin)

UN Number: 3082
Hazard Class: 9
Packing Group: III
EmS Number: F-A S-F
Marine pollutant: Yes

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15. REGULATORY INFORMATION

Applicable National Regulations

This product is subject to the requirements in the following acts/regulations:

Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations
Environmental Protection and Management Act and Environmental Protection and Management
Maritime and Port Authority of Singapore (Dangerous Goods, Petroleum and Explosives)

International Regulations

This product is classified as hazardous pursuant to the provision set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

16. OTHER INFORMATION

The information and data contained herein are believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since QUICSEAL Construction Chemicals Pte. Ltd. cannot know all of the uses to which its products may be put or the conditions of use; it makes no warranties concerning the fitness or suitability of its products for a particular use of purpose.

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**SAFETY DATA SHEET
QUICSEAL 640 – PART B
STONE BINDER**

1. INFORMATION OF THE SUBSTANCE/COMPOUND AND THE SUPPLIER

Product Name: QUICSEAL 640 – Stone Binder (Part B)

Product Use: Part B of a two-component solvent-based adhesive for binding pebbles & aggregates

Details of the supplier:

*QUICSEAL CONSTRUCTION CHEMICALS PTE LTD
No. 7 Eunos Avenue 8A
Eunos Industrial Estate
Singapore 409460*

Emergency Contact No.: (65) 6742 4466

2. HAZARDS IDENTIFICATION

GHS Classification:

Acute oral toxicity – Category 4
Acute dermal toxicity – Category 4
Skin corrosion – Category 1
Serious eye damage – Category 1
Skin sensitization – Category 1

GHS LABEL ELEMENTS

Symbol(s):



Signal Word

Warning

Hazard Statements:

H302: Harmful if swallowed
H312: Harmful in contact with skin
H314: Causes severe skin burns and serious eye damage
H317: May cause an allergic skin reaction

Precautionary Statements:

Prevention

P261: Avoid breathing fume/mist/vapours/spray.
P270: Do not eat, drink, or smoke when using this product.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

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Response

P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

P310: Immediately call a POISON CENTER or doctor/ physician.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before reuse.

Disposal

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

This product contains the following components classified as hazardous:

COMPONENTS	CAS No.	EINECS No.	Index No.	Percentage
Isophorone diamine	2855-13-2	220-666-8	612-067-00-9	> 25%
Benzyl alcohol	100-51-6	202-859-9	603-057-00-5	> 25%

4. FIRST-AID MEASURES**General information**

Take person to a safe place. Observe self-protection for first aid. Always seek medical advice in the event of contact with this substance.

Inhalation

Keep the patient calm. If unconscious place in stable sideways position. Protect against loss of body heat. If breathing stops, administer artificial respiration. Seek medical advice immediately and clearly identify substance.

Skin contact

Remove contaminated clothes at once. Wash off with plenty of water or water and soap immediately for 10-15 minutes. In serious cases, use emergency shower immediately. Seek medical advice immediately and clearly identify substance.

Eye contact

Rinse immediately with plenty of water for 10-15 minutes. Keep eyelids well open to rinse the whole eye surface and eyelids with water. Seek medical advice immediately and clearly identify substance. Continue to bathe eyes during transport to medical practitioner.

Ingestion

If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice immediately and clearly identify substance.

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5. FIRE-FIGHTING MEASURES

General Fire Hazards

If material is involved in fire, do not breathe fumes.

Suitable Fire-extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke).

Advice for fire-fighters

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Do not use a solid water stream as it may scatter and spread fire.

Further information

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Emergency Measures

Emergency and non-emergency responders should use personal protective equipment. Avoid contact with skin and eyes. Do not breathe vapours/aerosol.

Personal Precautions and Protective equipment

Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

Environmental Precautions

Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material.

Methods and materials for containment and cleaning up

Carefully contain and stop the source of the spill, if safe to do so.

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Keep in suitable and closed containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Plan first aid action before beginning work with this product. Wear personal protective equipment. Avoid contact with skin and eyes.

Conditions for safe storage, including any incompatibilities

Store in a place accessible by authorized persons only. Store in original container. Keep tightly closed in a dry and cool place. Store away from electrostatic discharge, direct sunlight and contact with sources of heat. Keep away from strong oxidising agents, mineral and organic acids, and organic halides.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters / Occupational Exposure Limits

This product has no component with relevant occupational exposure limits.

Occupational Exposure Controls

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.

Personal Protective Equipment:

Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with protective gloves complying with EN 374. Gloves made of Nitrile. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Pale yellow
Odour:	Slight ammonia odour
Flash Point:	91°C
Initial boiling point and boiling range:	Not available
Freezing / Melting point:	Not available
Autoignition temperature:	Not available
Flammability Limits:	Not available
Vapor pressure (20°C):	Not available
Vapor density:	Not available
Water Solubility (25°C):	Not soluble
Specific Gravity:	Approx. 1.03

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10. STABILITY AND REACTIVITY

Chemical stability

Stable at normal conditions. No decomposition if stored and applied as directed.

Possibility of hazardous reactions

No hazardous reactions are expected under normal conditions of handling and storage. Keep away from strong oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Conditions to avoid

Avoid electrostatic discharge, direct sunlight and contact with sources of heat. Burning produces obnoxious and toxic fumes.

Incompatible materials

Strong oxidising agents, mineral and organic acids, and organic halides.

Hazardous decomposition products

None under normal use. Carbon monoxide, carbon dioxide and non-combusted hydrocarbons (smoke) may be liberated when product is involved in fire.

11. TOXICOLOGICAL INFORMATION

This product has not been tested and all the toxicological statements have been derived from the respective components' available toxicity information.

Acute toxicity

Experimental/calculated data:

LD50, oral: 300 ~ 2,000 mg/kg (the product is harmful if ingested)

LD50, dermal: 1,000 ~ 2,000 mg/kg (the product is harmful in contact with skin)

LC50, inhalation: > 20 mg/L (the product is not harmful if inhaled)

Skin and Eye Irritation

The product contains the following components with their respective skin and eye corrosion/irritation classification:

Isophorone diamine, CAS No.: 2855-13-2 - Skin Corrosive – Cat. 1; Serious Eye Damage – Cat. 1

Benzyl alcohol, CAS No.: 100-51-6 - Skin Irritant - Category 2

Respiratory / Skin sensitization

The product's components may cause an allergic skin reaction. This product is not expected to cause allergy or asthma symptoms or breathing difficulties if accidentally inhaled.

Germ cell mutagenicity / Carcinogenicity / Reproductive toxicity / Developmental toxicity

Based on the assessment of available information, the product is: not mutagenic in bacteria; has no known carcinogenic effect; and not expected to cause reproductive and developmental toxicity.

Specific target organ toxicity (single and repeated exposure)

Based on the available information, there is no specific target organ toxicity expected after a single or repeated exposure to the product.

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12. ECOLOGICAL INFORMATION

The following ecological assessment is based on the available ecotoxicity information of the product's components.

Ecotoxicity

This product is not expected to be toxic to aquatic life based on the toxicity values to the following aquatic organisms:

Fish: LC50 (96h) > 200 mg/l, *Brachydanio rerio* (OECD Guideline 203, static)

Aquatic invertebrates: EC50 (48h) > 200 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants: LC50 (72h) > 200 mg/l, *Scenedesmus subspicatus* (OECD Guideline 201)

Additional information

Do not release product untreated into natural waters. At the present knowledge of the product, no negative ecological effects are expected.

13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling & methods of disposal

Dispose of the product through licensed hazardous waste collectors under Singapore regulations. Provide the hazardous waste collector the sufficient information on the various hazards of this product.

Disposal of any contaminated packaging

Dried material can be disposed off in authorized landfill site in accordance to national regulations. Container should be recycled after cleaning or dispose of the container through licensed hazardous waste collectors under Singapore regulations. Provide the hazardous waste collector the sufficient information on the various hazards of this product in this container.

14. TRANSPORT INFORMATION

Land Transport (ADR):

Proper Shipping Name: CORROSIVE LIQUID MIXTURE, N.O.S

UN Number: 1760

Hazard Class: 8

Packing Group: III



Air Transport (IATA):

Proper Shipping Name: CORROSIVE LIQUID MIXTURE, N.O.S

UN Number: 1760

Hazard Class: 8

Packing Group: III



Sea transport (IMDG):

Proper Shipping Name: CORROSIVE LIQUID MIXTURE, N.O.S

UN Number: 1760

Hazard Class: 8

Packing Group: III

Marine pollutant: No



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Applicable National Regulations

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Environmental Protection and Management Act and Environmental Protection and Management
Maritime and Port Authority of Singapore (Dangerous Goods, Petroleum and Explosives)

International Regulations

This product is classified as hazardous pursuant to the provision set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.

16. OTHER INFORMATION

The information and data contained herein are believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since QUICSEAL Construction Chemicals Pte. Ltd. cannot know all of the uses to which its products may be put or the conditions of use; it makes no warranties concerning the fitness or suitability of its products for a particular use of purpose.

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