

SAFETY DATA SHEET

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PRODUCT

Q-Bond Adhesive & Filling Powders

Section 1

PRODUCT AND COMPANY IDENTIFICATION

Product Name : Q-Bond adhesive

Product Code : KTI-90002 (repair kit)

Recommended use : General purpose adhesive

Supplier : K-Tool International

Address : 31111 Old Wixom Road, Wixom, MI 48393

Tel Number : 800.762.6002

Fax number : 800.762.1295

Emergency Telephone Number : Chemtrec 800.424.9300

Section 2

COMPOSITION/INFORMATION ON COMPONENTS

Substance/Preparation : Preparation

Chemical Nature : Liquid

Hazardous Components :

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration</u>	<u>EU Classification</u>
Ethyl Cyanoacrylate	7085-85-0	99.8 %	Not listed
Hydroquinone	123-31-9	0.2 %	Xn; R20-51/53

Section 3

HAZARDS IDENTIFICATION

Classification

Dangerous goods

Risk Symbols

Risk Phrases

: Not classified as dangerous goods.

: Not required (Concentration below cut-off limits for Xn substances).

: See section 15 - Regulatory

Physical/chemical hazards

Human health hazard

Environmental health hazard

: No specific hazard.

: Bonds to skin and eyes in seconds.

: No specific hazard.

Section 4

FIRST AID MEASURES

Eye contact

: Rinse immediately with plenty of water for at least 15 minutes, seek medical attention.

Skin contact

: Rinse off with water.

Ingestion

: Wash out mouth with water. Do not induce vomiting. Administer 300 ml of water or milk to dilute stomach contents. Seek medical attention.

Inhalation

: Move victim to fresh air. Seek medical attention if symptoms persist.

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Section 5**FIRE-FIGHTING MEASURES**

- Suitable extinguishing media** : All media. Water and foam may cause some frothing. Controlled frothing may restrict inhibit oxygen supply to the fire.
- Special protective equipment** : Self-contained breathing apparatus and protective suit.
- Specific hazards** : Irritating and toxic fumes may be liberated in large fires.

Section 6**ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : Avoid contact with skin, eyes and clothing.
- Methods for cleaning up** : Collect dry and reacted material and dispose as ordinary waste.

Section 7**HANDLING AND STORAGE**

- Personal precautions** : Avoid contact with skin, eyes and clothing.
- Methods for cleaning up** : Collect dry and reacted material and dispose as ordinary waste.

Section 8**EXPOSURE CONTOL/PERSONAL PROTECTION**

- Exposure limits**
- Ethyl cyanoacrylate** : TWA – 0.2 ppm.
STEL – Not available.
- Hydroquinone** : TWA – 2 mg/m³
STEL – Not available
- Personal protective equipment**
- Eye protection** : Goggles or face shield.
- Skin and body protection** : No special requirements.
- Protective measures** : No special requirements.

Section 9**PHYSICAL AND CHEMICAL PROPERTIES**

- Physical state** : Clear transparent liquid
- Color** : Colorless
- Odor** : Sharp, irritating
- Initial boiling point** : Approximately 150 deg. C
- Flash point** : >82 deg C.
- Specific gravity** : 1.05
- Water solubility** : Polymerises in water
- Vapour Pressure** : < 0.2 mm at 24 deg C.
- Vapour density** : 3
- Viscosity** : 2 – 32 CPS at 25 deg C
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PRODUCT

Q-Bond Adhesive & Filling Powders

Section 10**STABILITY AND REACTIVITY**

- Conditions to avoid** : Stable under ordinary conditions of use and storage
- Materials to avoid** : Water, alcohols, amines and alkalis.
- Hazardous decomposition products** : Irritating and toxic fumes in large fires
- Hazardous Polymerization** : Will occur when exposed to heat or incompatible materials.

Section 11**TOXICOLOGICAL INFORMATION****Potential acute health effects****Inhalation****Ingestion****Eye contact**

- : Long term exposure may lead to allergic rhinitis.
- : Will bond to skin tongue and mucous membrane within seconds.
- : Will bond to lids and eye surface within seconds. Can cause irritation, corneal abrasion, loss of eyelashes and keratoconjunctivitis. Eyelids may remain sealed for 1 to 4 days.

Skin contact

- : Will bond to skin within seconds.

Acute toxicity**Ethyl cyanoacrylate****Hydroquinone**

- : LD50 5ml/kg rat
- : LD50 130 mg/kg oral, rat

Carcinogen rating**Ethyl cyanoacrylate****Hydroquinone**

- : Not listed as a carcinogen.
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Section 12**ECOLOGICAL INFORMATION****Ecotoxicity****Ethyl cyanoacrylate**

- : No information available.

Hydroquinone

- : Daphnia Magna (LC50) 96h 0.05 ppm.

Persistence/ degradability**Ethyl cyanoacrylate****Hydroquinone**

- : No information available.
- : BOD = 53%
- BCF – Does not concentrate in the food chain.

Section 13**DISPOSAL CONSIDERATIONS****Product**

- : Dispose as normal waste in accordance with local and national regulations.

Containers

- : Dispose as normal waste in accordance with local and national regulations.

Contaminated packaging

- : Dispose as normal waste in accordance with local and national regulations.
-

PRODUCT

Q-Bond Adhesive & Filling Powders

Section 14**TRANSPORT INFORMATION**

Road and rail transport	: Not classified as dangerous goods.
Sea transport (IMDG)	: Not classified as dangerous goods.
Air transport (IATA)	: Not classified as dangerous goods.

Section 15**REGULATORY INFORMATION**

National legislation (South Africa)	
Hazardous substances	: Occupational Health And Safety Act, Act 85 of 1995 - Regulations for hazardous chemical substances.
Waste disposal	: National Water Act, Act 36 of 1998
Other regulations	
Hazard Symbols	: Not required.
Risk phrases	: Cyanoacrylate. Danger. Bonds to skin and eyes in seconds. Keep out of reach of children.
Product use	: General purpose adhesive.

Section 16**OTHER INFORMATION**

16.1 This Safety Data Sheet has been prepared using data supplied by the manufacturers of the ingredients and summarises our best knowledge, at the date of issue, and of the health and safety information of the product and how to safely handle and use the product in the workplace. Since Q-Bond cannot anticipate or control the conditions under which the product may be used, each user must prior to usage, review this Safety Data Sheet in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Q-Bond.

16.2 Original	: May 2008
Revised	: 22 June 2008

PRODUCT **Q-Bond Adhesive & Filling Powders**

Section 1**PRODUCT AND COMPANY IDENTIFICATION**

Product Name : Q-Bond Black Powder
Recommended use : Additive for Q-Bond adhesive
Supplier : K-Tool International
Address : 31111 Old Wixom Road, Wixom, MI 48393
Tel Number : 800.762.6002
Fax number : 800.762.1295
Emergency Telephone Number : Chemtrec 800.424.9300

Section 2**COMPOSITION/INFORMATION ON COMPONENTS**

Substance/Preparation : Preparation
Chemical Nature : Dry Powder mixture
Hazardous Components :

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration</u>	<u>EU Classification</u>
The product consists of metal oxide pigments and salts and contains no ingredients either listed as dangerous goods, or listed as EU classified substances.			

Section 3**HAZARDS IDENTIFICATION**

Classification
Dangerous goods : Not classified as dangerous goods.
Risk Symbols : Not required
Risk Phrases : Not required
Physical/chemical hazards : No specific hazard.
Human health hazard : No specific hazard.
Environmental health hazard : No specific hazard.

Section 4**FIRST AID MEASURES**

Eye contact : Rinse with plenty of water. If irritation persists, seek medical attention.
Skin contact : Not irritating to the skin. Gently brush away excess powder.
Ingestion : No, or very low, oral toxicity. If discomfort occurs, obtain medical attention.
Inhalation : No adverse effects.

PRODUCT**Q-Bond Adhesive & Filling Powders**

Section 5**FIRE-FIGHTING MEASURES**

The product is not flammable or combustible

Suitable extinguishing media : No restrictions.

Special protective equipment : None.

Specific hazards : None.

Section 6**ACCIDENTAL RELEASE MEASURES**

Personal precautions : Avoid formation of dust.

Environmental precautions : No special precautions required.

Methods for cleaning up : Collect material and dispose as ordinary waste.

Section 7**HANDLING AND STORAGE**

Safe handling advice : Prevent the formation of dust.

Storage Conditions : Store in a dry, well ventilated area. Store away from incompatible materials such as water and acids.

Section 8**EXPOSURE CONTROL/PERSONAL PROTECTION****Exposure limits**

No TWA or STEL listings for any of the ingredients.

Personal protective equipment

Eye protection : No special requirements.

Skin and body protection : No special requirements.

Protective measures : No special requirements.

Section 9**PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : Dry powder

Color : Black

Odor : None

Initial boiling point : Not applicable

Flash point : Not applicable.

Specific gravity : 3.4

Water solubility : Partially soluble in water

Vapour Pressure : Not applicable

Melting Point : No clearly defined melting point

PRODUCT**Q-Bond Adhesive & Filling Powders**

Section 10**STABILITY AND REACTIVITY**

Conditions to avoid	: Stable under ordinary conditions of use and storage
Materials to avoid	: Moisture and strong acids.
Hazardous decomposition products	: Carbon dioxide in large fires.
Hazardous Polymerization	: Does not occur.

Section 11**TOXICOLOGICAL INFORMATION**

Potential acute health effects	
Inhalation	: No specific effects.
Ingestion	: No specific effects.
Eye contact	: No specific effects.
Skin contact	: No specific effects.
Acute toxicity	: No listed toxic effects for any of the ingredients.
Carcinogen rating	: No listed carcinogenic ratings for any of the ingredients.

Section 12**ECOLOGICAL INFORMATION**

Ecotoxicity	: No listed aquatic toxic effects for any of the ingredients.
Persistence/ degradability	: No BOD or BCF ratings available for any of the ingredients.

Section 13**DISPOSAL CONSIDERATIONS**

Product	: Dispose as normal waste in accordance with local and national regulations.
Containers	: Dispose as normal waste in accordance with local and national regulations.
Contaminated packaging	: Dispose as normal waste in accordance with local and national regulations.

Section 14**TRANSPORT INFORMATION**

Road and rail transport	: Not classified as dangerous goods.
Sea transport (IMDG)	: Not classified as dangerous goods.
Air transport (IATA)	: Not classified as dangerous goods.

PRODUCT**Q-Bond Adhesive & Filling Powders**

Section 15**REGULATORY INFORMATION****National legislation (South Africa)**

Hazardous substances : Occupational Health And Safety Act, Act 85 of 1995 - Regulations for hazardous chemical substances.

Waste disposal : National Water Act, Act 36 of 1998

Other regulations

Hazard Symbols : Not required.

Risk phrases : Not required.

Product use : Additive for Q-Bond adhesive.

Section 16**OTHER INFORMATION**

16.1 This Safety Data Sheet has been prepared using data supplied by the manufacturers of the ingredients and summarises our best knowledge, at the date of issue, and of the health and safety information of the product and how to safely handle and use the product in the workplace. Since Q-Bond cannot anticipate or control the conditions under which the product may be used, each user must prior to usage, review this Safety Data Sheet in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Q-Bond.

16.2 Original : May 2008

Revised : 22 June 2008

PRODUCT **Q-Bond Adhesive & Filling Powders**

Section 1**PRODUCT AND COMPANY IDENTIFICATION**

Product Name : Q-Bond Grey Powder
Recommended use : Additive for Q-Bond adhesive
Supplier : K-Tool International
Address : 31111 Old Wixom Road, Wixom, MI 48393
Tel Number : 800.762.6002
Fax number : 800.762.1295
Emergency Telephone Number : Chemtrec 800.424.9300

Section 2**COMPOSITION/INFORMATION ON COMPONENTS**

Substance/Preparation : Preparation
Chemical Nature : Dry Powder mixture
Hazardous Components :

<u>Chemical Name</u>	<u>CAS No.</u>	<u>Concentration</u>	<u>EU Classification</u>
The product consists of metal oxide pigments and salts and contains no ingredients either listed as dangerous goods, or listed as EU classified substance.			

Section 3**HAZARDS IDENTIFICATION**

Classification
Dangerous goods : Not classified as dangerous goods.
Risk Symbols : Not required
Risk Phrases : Not required
Physical/chemical hazards : No specific hazard.
Human health hazard : No specific hazard.
Environmental health hazard : No specific hazard.

Section 4**FIRST AID MEASURES**

Eye contact : Rinse with plenty of water. If irritation persists, seek medical attention.
Skin contact : Not irritating to the skin. Gently brush away excess powder.
Ingestion : No, or very low, oral toxicity. If discomfort occurs, obtain medical attention.
Inhalation : No adverse effects.

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PRODUCT

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Section 5

FIRE-FIGHTING MEASURES

The product is not flammable or combustible

Suitable extinguishing media : No restrictions.

Special protective equipment : None.

Specific hazards : None.

Section 6

ACCIDENTAL RELEASE MEASURES

Personal precautions : Avoid formation of dust.

Environmental precautions : No special precautions required.

Methods for cleaning up : Collect material and dispose as ordinary waste.

Section 7

HANDLING AND STORAGE

Safe handling advice : Prevent the formation of dust.

Storage Conditions : Store in a dry, well ventilated area. Store away from incompatible materials such as water and acids.

Section 8

EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure limits

No TWA or STEL listings for any of the ingredients.

Personal protective equipment

Eye protection : No special requirements.

Skin and body protection : No special requirements.

Protective measures : No special requirements.

Section 9

PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Dry powder

Color : Grey

Odor : None

Initial boiling point : Not applicable

Flash point : Not applicable.

Specific gravity : 3.4

Water solubility : Partially soluble in water

Vapour Pressure : Not applicable

Melting Point : No clearly defined melting point

PRODUCT**Q-Bond Adhesive & Filling Powders**

Section 10**STABILITY AND REACTIVITY**

- Conditions to avoid** : Stable under ordinary conditions of use and storage
- Materials to avoid** : Moisture and strong acids.
- Hazardous decomposition products** : Carbon dioxide in large fires.
- Hazardous Polymerization** : Does not occur.

Section 11**TOXICOLOGICAL INFORMATION**

- Potential acute health effects**
- Inhalation** : No specific effects.
- Ingestion** : No specific effects.
- Eye contact** : No specific effects.
- Skin contact** : No specific effects.
- Acute toxicity** : No listed toxic effects for any of the ingredients.
- Carcinogen rating** : No listed carcinogenic ratings for any of the ingredients.

Section 12**ECOLOGICAL INFORMATION**

- Ecotoxicity** : No listed aquatic toxic effects for any of the ingredients.
- Persistence/ degradability** : No BOD or BCF ratings available for any of the ingredients.

Section 13**DISPOSAL CONSIDERATIONS**

- Product** : Dispose as normal waste in accordance with local and national regulations.
- Containers** : Dispose as normal waste in accordance with local and national regulations.
- Contaminated packaging** : Dispose as normal waste in accordance with local and national regulations.

Section 14**TRANSPORT INFORMATION**

- Road and rail transport** : Not classified as dangerous goods.
- Sea transport (IMDG)** : Not classified as dangerous goods.
- Air transport (IATA)** : Not classified as dangerous goods.
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PRODUCT**Q-Bond Adhesive & Filling Powders**

Section 15**REGULATORY INFORMATION****National legislation (South Africa)**

Hazardous substances : Occupational Health And Safety Act, Act 85 of 1995 - Regulations for hazardous chemical substances.

Waste disposal : National Water Act, Act 36 of 1998

Other regulations

Hazard Symbols : Not required.

Risk phrases : Not required.

Product use : Additive for Q-Bond adhesive.

Section 16**OTHER INFORMATION**

16.1 This Safety Data Sheet has been prepared using data supplied by the manufacturers of the ingredients and summarises our best knowledge, at the date of issue, and of the health and safety information of the product and how to safely handle and use the product in the workplace. Since Q-Bond cannot anticipate or control the conditions under which the product may be used, each user must prior to usage, review this Safety Data Sheet in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Q-Bond.

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End of MSDS
