

SAFETY DATA SHEET

1. Identification

Product identifier Minute Mend™ Epoxy Putty

Other means of identification

Product code 74070

Recommended use Permanent repair of holes and gouges

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Canada Co.
Address 2-1246 Lorimar Dr.

Mississauga, Ontario L5S 1R2

Canada

Telephone 905-670-2291
Website www.crc-canada.ca

E-mail Support.CA@crcindustries.com

Emergency phone number 24-Hour Emergency 80

24-Hour Emergency 800-424-9300 (Canada) (CHEMTREC) 703-527-3887 (International)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazardsSensitization, skinCategory 1Environmental hazardsHazardous to the aquatic environment, acuteCategory 3

hazard

Hazardous to the aquatic environment, Category 3

long-term hazard

Label elements



Signal word Warning

Hazard statement May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be

allowed out of the workplace. Wear protective gloves. Avoid release to the environment.

Response IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical

advice/attention. Take off contaminated clothing and wash it before reuse.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
talc (not containing asbestos fibers	5)	14807-96-6	30 - 60
glass, oxide, chemicals		65997-17-3	15 - 40
bisphenol A, epichlorohydrin polymer		25068-38-6	5 - 10
titanium dioxide		13463-67-7	3 - 7

Material name: Minute Mend™ Epoxy Putty 74070 Version #: 01 Issue date: 07-10-2017

Chemical name	Common name and synonyms	CAS number	%
3,6-diazaoctanethylenediamin		112-24-3	0.5 - 1.5
quartz		14808-60-7	0.1 - 1

The exact percentage (concentration) of composition has been withheld as a trade secret.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Do not use

mouth-to-mouth method if victim inhaled the substance. If breathing is difficult, trained personnel

should give oxygen. Call a physician if symptoms develop or persist.

Remove contaminated clothing immediately and wash skin with soap and water. In case of Skin contact

eczema or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important symptoms/effects, acute and

delayed

May cause an allergic skin reaction. Dermatitis. Rash.

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to **General information** protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

None known.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting equipment/instructions Use water spray to cool unopened containers.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up The product is immiscible with water and will sediment in water systems. Prevent product from entering drains. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Wash hands after handling and before eating. Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in a cool, dry place out of direct sunlight. Do not store container above 95 °F/35 °C. Keep container tightly closed. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

	s		F
omponents	Туре	Value	Form
ıartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
c (not containing	TWA	2 mg/m3	Respirable fraction.
bestos fibers) (ČAS		•	•
807-96-6)			
anium dioxide (CAS	TWA	10 mg/m3	
463-67-7)			
anada. Alberta OELs (Occupatio omponents	onal Health & Safety Code, Sch Type	nedule 1, Table 2) Value	Form
ass, oxide, chemicals	TWA	0.2 fibers/cm3	Fiber.
AS 65997-17-3)	TVV	0.2 110013/01113	r ibcr.
		5 mg/m3	Total particulate.
		5 mg/m3	Fiber, total
artz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.
c (not containing	TWA	2 mg/m3	Respirable particles.
c (not containing bestos fibers) (CAS	IVVA	z my/ms	respirable particles.
807-96-6)			
anium dioxide (CAS	TWA	10 mg/m3	
3463-67-7)	IVVA	ro mg/ms	
anada. British Columbia OELs. (afety Regulation 296/97, as ame		s for Chemical Substances, Oc	cupational Health and
omponents	Туре	Value	Form
ass, oxide, chemicals	TWA	0.2 fibers/cm3	Fiber.
AS 65997-17-3)		0.2 115010101110	1 1001.
·		5 mg/m3	Inhalable fibers.
ıartz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
lc (not containing	TWA	2 mg/m3	Respirable.
bestos fibers) (CAS	IWA	2 mg/m3	respirable.
1807-96-6)			
anium dioxide (CAS	TWA	3 mg/m3	Respirable fraction.
3463-67-7)	1 007 (o mg/mo	respirable fraction.
		10 mg/m3	Total dust.
anada. Manitoba OELs (Reg. 217	7/2006, The Workplace Safety	And Health Act)	
omponents	Туре	Value	Form
ass, oxide, chemicals	TWA	5 mg/m3	Inhalable fraction.
AS 65997-17-3)		-	
artz (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
lc (not containing	TWA	2 mg/m3	Respirable fraction.
sbestos fibers) (CAS 1807-96-6)			
anium dioxide (CAS	TWA	10 mg/m3	
3463-67-7)	IVVA	To mg/ms	
•	f Exposure to Biological or Ch	nemical Agents)	
anada. Ontario OELs. (Control o		Value	Form
anada. Ontario OELs. (Control o omponents	Туре	Value	
omponents			
omponents 6-diazaoctanethylenedia	Type TWA	3 mg/m3	
		3 mg/m3	
6-diazaoctanethylenedia in (CAS 112-24-3)	TWA	3 mg/m3 0.5 ppm	Poenirable fibers
6-diazaoctanethylenedia in (CAS 112-24-3) ass, oxide, chemicals		3 mg/m3	Respirable fibers.
6-diazaoctanethylenedia n (CAS 112-24-3) ass, oxide, chemicals	TWA	3 mg/m3 0.5 ppm 0.5 fibers/ml	·
omponents 6-diazaoctanethylenedia n (CAS 112-24-3) ass, oxide, chemicals AS 65997-17-3)	TWA	3 mg/m3 0.5 ppm 0.5 fibers/ml 5 mg/m3	Inhalable fraction.
6-diazaoctanethylenedia in (CAS 112-24-3) ass, oxide, chemicals AS 65997-17-3)	TWA TWA	3 mg/m3 0.5 ppm 0.5 fibers/ml 5 mg/m3 0.1 mg/m3	·
6-diazaoctanethylenedia in (CAS 112-24-3) ass, oxide, chemicals AS 65997-17-3) aartz (CAS 14808-60-7) ic (not containing	TWA	3 mg/m3 0.5 ppm 0.5 fibers/ml 5 mg/m3	Inhalable fraction.
6-diazaoctanethylenedia n (CAS 112-24-3) ass, oxide, chemicals AS 65997-17-3) artz (CAS 14808-60-7) c (not containing bestos fibers) (CAS	TWA TWA	3 mg/m3 0.5 ppm 0.5 fibers/ml 5 mg/m3 0.1 mg/m3	Inhalable fraction.
6-diazaoctanethylenedia n (CAS 112-24-3) ass, oxide, chemicals AS 65997-17-3) artz (CAS 14808-60-7) c (not containing bestos fibers) (CAS	TWA TWA	3 mg/m3 0.5 ppm 0.5 fibers/ml 5 mg/m3 0.1 mg/m3 2 fibers/ml	Inhalable fraction. Respirable fraction.
6-diazaoctanethylenedia in (CAS 112-24-3) ass, oxide, chemicals AS 65997-17-3)	TWA TWA	3 mg/m3 0.5 ppm 0.5 fibers/ml 5 mg/m3 0.1 mg/m3	Inhalable fraction.

13463-67-7)

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)			
Components	Type	Value	Form
glass, oxide, chemicals (CAS 65997-17-3)	TWA	1 fibers/cm3n	Fiber.
,		10 mg/m3	Total dust.
quartz (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable dust.
talc (not containing asbestos fibers) (CAS 14807-96-6)	TWA	3 mg/m3	Respirable dust.
titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3	Total dust.

No biological exposure limits noted for the ingredient(s). **Biological limit values**

Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica **Exposure guidelines**

should be monitored and controlled.

Canada - Ontario OELs: Skin designation

3,6-diazaoctanethylenediamin (CAS 112-24-3) Can be absorbed through the skin.

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Wear protective gloves such as: Rubber gloves. **Hand protection**

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a Respiratory protection

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained

breathing apparatus in confined spaces and for emergencies.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Solid. **Physical state**

Form Semi-solid paste. Green. White. Color

Pungent. Sulphurous. Odor

Odor threshold Not available. Not available. Melting point/freezing point Not available. Initial boiling point and boiling > 392 °F (> 200 °C)

range

Flash point > 200 °F (> 93.3 °C) Setaflash

Evaporation rate Not available. Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits Flammability limit - lower

Not available.

Flammability limit - upper

Not available.

(%)

406.9 hPa estimated Vapor pressure

Vapor density Not available. Relative density 1.97

Solubility(ies)

Solubility (water) Insoluble.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperature> 392 °F (> 200 °C)ViscosityNot available.

Other information

Percent volatile 0 %

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Temperatures above 35 °C. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides. Metal oxides. Halogenated materials.

11. Toxicological information

Information on likely routes of exposure

InhalationProlonged inhalation may be harmful.Skin contactMay cause an allergic skin reaction.

Eye contactDirect contact with eyes may cause temporary irritation.IngestionHealth injuries are not known or expected under normal use.

Symptoms related to the physical, chemical and toxicological characteristics

May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Not known.

Product Species Test	t Results
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Minute Mend™ Epoxy Putty

<u>Acute</u> Dermal

ATEmix 3006.0251 mg/kg

Oral ATEmix

2161.7647 mg/kg

Components Species Test Results

bisphenol A, epichlorohydrin polymer (CAS 25068-38-6)

Acute Oral

LD50 Rat 11400 mg/kg

quartz (CAS 14808-60-7)

Acute

Oral

LD50 Rat 500 mg/kg

titanium dioxide (CAS 13463-67-7)

Acute Dermal

LD50 Rabbit > 10000 mg/kg

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Species Test Results Components

Oral

LD50 Rat > 10000 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization Canada - Alberta OELs: Irritant

> glass, oxide, chemicals (CAS 65997-17-3) Irritant titanium dioxide (CAS 13463-67-7) Irritant

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

ACGIH Carcinogens

talc (not containing asbestos fibers) (CAS 14807-96-6) A4 Not classifiable as a human carcinogen. titanium dioxide (CAS 13463-67-7) A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

talc (not containing asbestos fibers) (CAS 14807-96-6) Not classifiable as a human carcinogen. titanium dioxide (CAS 13463-67-7) Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

phenol (CAS 108-95-2) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified. Specific target organ toxicity -

repeated exposure

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Not classified.

Components **Species Test Results**

bisphenol A, epichlorohydrin polymer (CAS 25068-38-6)

Aquatic

Acute

Fish LC50 Rainbow trout, donaldson trout 3.6 mg/l, 96 hours

(Oncorhynchus mykiss)

titanium dioxide (CAS 13463-67-7)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) > 1000 mg/l, 48 hours

Acute

Fish LC50 Fathead minnow (Pimephales promelas) 1000 mg/l, 96 hours

Persistence and degradability

Bioaccumulative potential

Bioconcentration factor (BCF)

titanium dioxide 352

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

^{*} Estimates for product may be based on additional component data not shown.

13. Disposal considerations

Disposal of waste from residues / unused products

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

Not regulated.

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

the IBC Code

15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

glass, oxide, chemicals (CAS 65997-17-3)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes

Country(s) or region Inventory name On inventory (yes/no)*

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date 07-10-2017

Version # 01

Disclaimer

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Canada Co.'s knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety

professional, or CRC Canada Co.

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