# CRC

# SAFETY DATA SHEET

#### 1. Identification

Product identifier FiberLock® Head Gasket & Block Repair

Other means of identification

Product code 401224

Recommended use Seals leaks in engine block

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufactured or sold by:

Company name CRC Industries, Inc.

Address 885 Louis Dr.

Warminster, PA 18974 US

**Telephone** 

 General Information
 215-674-4300

 Technical
 800-521-3168

**Assistance** 

 Customer Service
 800-272-4620

 24-Hour Emergency
 800-424-9300 (US)

(CHEMTREC) 703-527-3887 (International)
Website www.crcindustries.com

# 2. Hazard(s) identification

Physical hazards Not classified.

**Health hazards** Serious eye damage/eye irritation Category 2 **Environmental hazards** Hazardous to the aquatic environment, acute Category 2

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** Causes serious eye irritation. Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

**Prevention** Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air

supply during use. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wash thoroughly after handling. Wear eye/face protection. Avoid release to the

Category 3

environment.

Response If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**Storage** Store away from incompatible materials.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

# 3. Composition/information on ingredients

#### **Mixtures**

Material name: FiberLock® Head Gasket & Block Repair

401224 Version #: 03 Revision date: 12-07-2015 Issue date: 06-01-2015

Chemical name	Common name and synonyms	CAS number	%	
Water		7732-18-5	80 - 90	
Sodium silicate		1344-09-8	5 - 10	
Aluminosilicate Refractory Ceramic Fibres		142844-00-6	1 - 3	
Cellulose		9004-34-6	1 - 3	
Copper		7440-50-8	< 0.2	

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

# 4. First-aid measures

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

# 5. Fire-fighting measures

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Do not use water jet as an extinguisher, as this will spread the fire.
During fire, gases hazardous to health may be formed.
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Move containers from fire area if you can do so without risk.
No unusual fire or explosion hazards noted.

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	This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Dike the spilled material, where this is possible.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.
7. Handling and storage	

Precautions for safe handling

Provide adequate ventilation. Avoid contact with eyes. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Use care in handling/storage. For product usage instructions, please see the product label.

Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

Components	for Air Contaminants (29 CFR 1910.1000)  Type	Value	Form
Cellulose (CAS 9004-34-6)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Copper (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
<b>US. ACGIH Threshold Limit</b>	Values		
Components	Туре	Value	
Cellulose (CAS 9004-34-6)	TWA	10 mg/m3	
US. NIOSH: Pocket Guide to	o Chemical Hazards		
Components	Туре	Value	Form
Aluminosilicate Refractory Ceramic Fibres (CAS 142844-00-6)	TWA	3 fibers/cm3	Dust.
,		3 fibers/cm3	Fiber.
		5 mg/m3	fibers, total dust
		5 mg/m3	Fiber, total
Cellulose (CAS 9004-34-6)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
logical limit values	No biological exposure limits noted for the ingredient(s).		
propriate engineering trols	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 ventilat or other engineering controls to maintain airborne levels below recommended exposure limits exposure limits have not been established, maintain airborne levels to an acceptable level. Preyewash station.		

#### Individual protection measures, such as personal protective equipment

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

Skin protection

**Hand protection** Wear protective gloves such as: Neoprene. Nitrile.

Other Wear suitable protective clothing.

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

NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to

determine actual employee exposure levels.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

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.

# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

Form Fibrous liquid.

ColorBeige.OdorBland.

Odor threshold Not available.

**pH** 11.2

Melting point/freezing point 32 °F (0 °C) estimated Initial boiling point and boiling 212 °F (100 °C) estimated

range

None (Tag Closed Cup) Flash point

Slow. **Evaporation rate** 

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

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Vapor pressure 21.4 hPa estimated

Vapor density Not available.

Relative density 1.07

Not available. Solubility (water) Not available. Partition coefficient (n-octanol/water)

**Auto-ignition temperature** 

400 °F (204.4 °C) estimated

Not available. **Decomposition temperature** Not available. Viscosity (kinematic) Percent volatile 84.9 % estimated

# 10. Stability and reactivity

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

Material is stable under normal conditions. **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Acids. Ammonium salts. Incompatible materials

Hazardous decomposition

products

Hydrogen.

# 11. Toxicological information

# Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged skin contact may cause temporary irritation.

Eye contact Causes serious eve irritation.

Ingestion May cause irritation to the mouth, esophagus and stomach. May cause gastrointestinal discomfort.

Symptoms related to the physical, chemical and toxicological characteristics Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision.

## Information on toxicological effects

Not available. **Acute toxicity** 

**Product Species Test Results** 

FiberLock® Head Gasket & Block Repair

**Acute** Inhalation

LC50 Rat 131 mg/l, 4 hours estimated

Oral

LD50 Rat 19612 mg/kg estimated

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

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

mutagenic or genotoxic.

Based on available data, the classification criteria are not met. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not available.

US. National Toxicology Program (NTP) Report on Carcinogens

Not available.

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged exposure may cause chronic effects.

# 12. Ecological information

otoxicity	Toxic to aquatic life. Harmful to aquatic life with long lasting effects.		
Product		Species	Test Results
FiberLock® Head Gas	ket & Block Repair		
Aquatic			
Crustacea	EC50	Daphnia	114.8845 mg/l, 48 hours estimated
Fish	LC50	Fish	1155.7474 mg/l, 96 hours estimated
Components		Species	Test Results
Copper (CAS 7440-50	-8)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.036 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.0319 - 0.0544 mg/l, 96 hours
Sodium silicate (CAS	1344-09-8)		
Aquatic			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	22.94 - 49.01 mg/l, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis)	2320 mg/l, 96 hours
Acute			
Fish	LC50	Western mosquitofish (Gambusia affinis)	2320 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

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.

# 13. Disposal considerations

Disposal of waste from residues / unused products This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). Empty containers may be recycled. 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 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.

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# 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

# 15. Regulatory information

#### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Aluminosilicate Refractory Ceramic Fibres (CAS

0.1 % One-Time Export Notification only.

142844-00-6)

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

## SARA 304 Emergency release notification

Not regulated.

## US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Not listed.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Copper (CAS 7440-50-8)

## **CERCLA Hazardous Substances: Reportable quantity**

Copper (CAS 7440-50-8)

5000 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Food and Drug

Not regulated.

Administration (FDA)

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 Immediate Hazard - Yes
Hazard categories Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely No hazardous substance

#### **US** state regulations

## US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Aluminosilicate Refractory Ceramic Fibres (CAS 142844-00-6)

Copper (CAS 7440-50-8)

## US. New Jersey Worker and Community Right-to-Know Act

Aluminosilicate Refractory Ceramic Fibres (CAS 142844-00-6)

Cellulose (CAS 9004-34-6)

#### **US. Massachusetts RTK - Substance List**

Aluminosilicate Refractory Ceramic Fibres (CAS 142844-00-6)

Cellulose (CAS 9004-34-6)

# US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

# **US. Rhode Island RTK**

None.

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# US. Pennsylvania Worker and Community Right-to-Know Law

Copper (CAS 7440-50-8) 2-Butoxyethanol (CAS 111-76-2) Aluminum (CAS 7429-90-5) Butanol (CAS 71-36-3)

Diethylene glycol monobutyl ether (CAS 112-34-5) Triethylene glycol monobutyl ether (CAS 143-22-6)

Aluminosilicate Refractory Ceramic Fibres (CAS 142844-00-6)

Cellulose (CAS 9004-34-6)

#### **US. California Proposition 65**

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

#### US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

 1,4-Dioxane (CAS 123-91-1)
 Listed: January 1, 1988

 Ethanal (CAS 75-07-0)
 Listed: April 1, 1988

 Ethylene oxide (CAS 75-21-8)
 Listed: July 1, 1987

#### US - California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene oxide (CAS 75-21-8) Listed: August 7, 2009

# US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Ethylene oxide (CAS 75-21-8) Listed: February 27, 1987

# US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene oxide (CAS 75-21-8) Listed: August 7, 2009

#### Volatile organic compounds (VOC) regulations

**EPA** 

VOC content (40 CFR

51.100(s))

Consumer products N

(40 CFR 59, Subpt. C)

Not regulated

0.1 %

State

VOC content (CA)

VOC content (OTC)

Not regulated

0.1 %

0.1 %

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
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)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>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, including date of preparation or last revision

 Issue date
 06-01-2015

 Revision date
 12-07-2015

 Prepared by
 Allison Cho

 Version #
 03

Material name: FiberLock® Head Gasket & Block Repair

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Further information CRC # 479
HMIS® ratings Health: 1

Flammability: 0 Physical hazard: 0 Personal protection: B

NFPA ratings Health: 1

Flammability: 0 Instability: 0

**NFPA** ratings



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 Industries' 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 Industries.

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