SAFETY DATA SHEET

1. Identification

Product identifier: Disc Brake Quiet
Other means of identification:
- Product code: 05015, 05016, 05115, 05116

Recommended use: Apply to brakes to decrease noise
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: 215-674-4300
- General Information
- Technical Assistance: 800-521-3168
- Customer Service: 800-272-4620
- 24-Hour Emergency (CHEMTREC): 800-424-9300 (US) 703-527-3887 (International)
- Website: www.crcindustries.com

2. Hazard(s) identification

Physical hazards: Not classified.
Health hazards: Specific target organ toxicity, repeated exposure. Category 2
Environmental hazards: Hazardous to the aquatic environment, acute hazard. Category 3
OSHA defined hazards: Not classified.

Label elements:
- Signal word: Warning
- Hazard statement: May cause damage to organs (kidneys, liver, blood) through prolonged or repeated exposure. Harmful to aquatic life.
- Precautionary statement:
  - Prevention: Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe mist or vapor. Avoid release to the environment.
  - Response: Get medical advice/attention if you feel unwell.
  - 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.

Supplemental information:
- 78.06% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Material name: Disc Brake Quiet
05015, 05016, 05115, 05116 Version #: 01 Issue date: 04-22-2015 SDS US 1 / 8
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**
Rinse with water. 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**
Prolonged exposure may cause chronic effects.

**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

**Suitable extinguishing media**
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

**Unsuitable extinguishing media**
Do not use water jet as an extinguisher, as this will spread the fire.

**Special protective equipment and precautions for firefighters**
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**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 breathe mist or vapor. 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**
Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

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. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. For product usage instructions, please see the product label.

**Conditions for safe storage, including any incompatibilities**
Store in a cool, dry place out of direct sunlight. Keep container tightly closed. Protect from freezing. Store away from incompatible materials (see Section 10 of the SDS).
8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethanolamine (CAS 111-42-2)</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>Inhalable fraction and vapor.</td>
</tr>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td>Ceiling</td>
<td>100 mg/m³</td>
<td>Aerosol.</td>
</tr>
<tr>
<td>Triethanolamine (CAS 102-71-6)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Value</th>
<th>Components</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethanolamine (CAS 111-42-2)</td>
<td>TWA</td>
<td>15 mg/m³</td>
</tr>
</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Value</th>
<th>Components</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethanolamine (CAS 111-42-2)</td>
<td>TWA</td>
<td>3 ppm</td>
</tr>
</tbody>
</table>

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US - California OELs: Skin designation
Diethanolamine (CAS 111-42-2) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation
Diethanolamine (CAS 111-42-2) 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
Hand protection
Wear protective gloves such as: Nitrile. Neoprene.

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

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Solid, Liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Solid. Semi-solid paste.</td>
</tr>
<tr>
<td>Color</td>
<td>Red.</td>
</tr>
<tr>
<td>Odor</td>
<td>Acrylic.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>-74.2 °F (-59 °C) estimated</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>212 °F (100 °C) estimated</td>
</tr>
<tr>
<td>Flash point</td>
<td>None (Tag Closed Cup)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Slow.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
### Upper/lower flammability or explosive limits

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability limit - lower (%)</td>
<td>0.7 % estimated</td>
</tr>
<tr>
<td>Flammability limit - upper (%)</td>
<td>15.3 % estimated</td>
</tr>
</tbody>
</table>

### Vapor pressure

- Vapor pressure: 12.1 hPa estimated
- Vapor density: Not available.
- Relative density: 1.03
- Solubility (water): Dispersible.
- Partition coefficient (n-octanol/water): Not available.

### Auto-ignition temperature

- 700 °F (371.1 °C) estimated

### Decomposition temperature

- Not available.

### Viscosity (kinematic)

- Not available.

### Percent volatile

- 39.1 % estimated

### 10. Stability and reactivity

#### Reactivity
The 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
Contact with incompatible materials. Protect from freezing.

#### Incompatible materials
Strong oxidizing agents.

#### Hazardous decomposition products
Acrylic monomers.

### 11. Toxicological information

#### Information on likely routes of exposure

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>May cause irritation to the respiratory system.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Prolonged skin contact may cause temporary irritation.</td>
</tr>
<tr>
<td>Eye contact</td>
<td>Direct contact with eyes may cause temporary irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Swallowing this material may cause gastrointestinal discomfort. May cause damage to organs through prolonged or repeated exposure by ingestion.</td>
</tr>
</tbody>
</table>

#### Symptoms related to the physical, chemical and toxicological characteristics
Direct contact with eyes may cause temporary irritation.

#### Information on toxicological effects

##### Acute toxicity
Not available.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disc Brake Quiet</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>9914 mg/kg estimated</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
<td>9650 ppm estimated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8666 mg/l, 4 Hours estimated</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250 mg/l, 6 hours estimated</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Human</td>
<td>70000 mg/kg estimated</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
<td>9426 mg/kg estimated</td>
</tr>
</tbody>
</table>

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

### Skin corrosion/irritation
Prolonged skin contact may cause temporary irritation.
Direct contact with eyes may cause temporary irritation.

Not a respiratory sensitizer.

This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Risk of cancer cannot be excluded with prolonged exposure.

Diethanolamine (CAS 111-42-2) 2B Possibly carcinogenic to humans.

Triethanolamine (CAS 102-71-6) 3 Not classifiable as to carcinogenicity to humans.

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

Not classified.

May cause damage to organs through prolonged or repeated exposure by ingestion. Kidneys. Liver. Blood.

Not an aspiration hazard.

May cause damage to organs through prolonged or repeated exposure. May be harmful if absorbed through skin. Prolonged exposure may cause chronic effects.

Prolonged or repeated exposure may cause liver and kidney damage. These effects have not been observed in humans.

Harmful to aquatic life.

<table>
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<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disc Brake Quiet</td>
<td>Crustacea</td>
<td>EC50  Daphnia</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50  Fish</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethanolamine (CAS 111-42-2)</td>
<td>Crustacea</td>
<td>EC50  Water flea (Ceriodaphnia dubia)</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50  Fathead minnow (Pimephales promelas)</td>
</tr>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td>Crustacea</td>
<td>EC50  Water flea (Daphnia magna)</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50  Rainbow trout,donaldson trout (Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>Triethanolamine (CAS 102-71-6)</td>
<td>Crustacea</td>
<td>EC50  Water flea (Ceriodaphnia dubia)</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50  Fathead minnow (Pimephales promelas)</td>
</tr>
</tbody>
</table>

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

No data is available on the degradability of this product.

No data available.

Material name: Disc Brake Quiet

05015, 05016, 05115, 05116     Version #: 01    Issue date: 04-22-2015
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.

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)
Not regulated.

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
Ethylene glycol (CAS 107-21-1)

CERCLA Hazardous Substance List (40 CFR 302.4)
Ethylene glycol (CAS 107-21-1) Listed.

CERCLA Hazardous Substances: Reportable quantity
Ethylene glycol (CAS 107-21-1) 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
Ethylene glycol (CAS 107-21-1)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

Food and Drug Administration (FDA)
Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Section 311/312 Hazard categories
Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance
No

US state regulations
US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
Diethanolamine (CAS 111-42-2)
Ethylene glycol (CAS 107-21-1)

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed.

US. New Jersey Worker and Community Right-to-Know Act
Triethanolamine (CAS 102-71-6)
Ethylene glycol (CAS 107-21-1)
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)

US. Massachusetts RTK - Substance List
Ethylene glycol (CAS 107-21-1)
Triethanolamine (CAS 102-71-6)

US. Pennsylvanıa Worker and Community Right-to-Know Law
Ethylene glycol (CAS 107-21-1)
Acrylonitrile (CAS 107-13-1)
Diethanolamine (CAS 111-42-2)
Formaldehyde (CAS 50-00-0)
Triethanolamine (CAS 102-71-6)

US. Rhode Island RTK
Ethylene glycol (CAS 107-21-1)

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
1,3-Dichloropropene (CAS 542-75-6) Listed: January 1, 1989
1,4-Dioxane (CAS 123-91-1) Listed: January 1, 1988
Acrylonitrile (CAS 107-13-1) Listed: July 1, 1987
D&C ORANGE NO. 17 (CAS 3468-63-1) Listed: July 1, 1990
Diethanolamine (CAS 111-42-2) Listed: June 22, 2012
Ethanal (CAS 75-07-0) Listed: April 1, 1988
Ethyl acrylate (CAS 140-88-5) Listed: July 1, 1989
Ethylene oxide (CAS 75-21-8) Listed: July 1, 1987
Formaldehyde (CAS 50-00-0) Listed: January 1, 1988
Methylene chloride (CAS 75-09-2) Listed: April 1, 1988

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)) 4 %
Consumer products (40 CFR 59, Subpt. C) Not regulated

State

Consumer products Not regulated
VOC content (CA) 0.8 %
VOC content (OTC) 0.8 %

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Country(s) or region</td>
<td>Inventory name</td>
<td>On inventory (yes/no)*</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>No</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*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: 04-22-2015
Prepared by: Allison Cho
Version #: 01

Further information: CRC # 562A-C

HMIS® ratings:
- Health: 1*
- Flammability: 0
- Physical hazard: 0
- Personal protection: B

NFPA ratings:
- Health: 1
- Flammability: 0
- Instability: 0

Disclaimer: CRC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. 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.