



# MATERIAL SAFETY DATA SHEET

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## Section 1: Product & Company Identification

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**Product Name:** Steer-X™ Power Steering Stop Leak

**Product Number (s):** 403015

**Product Use:** transmission fluid additive

### Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

[www.crcindustries.com](http://www.crcindustries.com)

1-215-674-4300 (General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

[www.crc-canada.ca](http://www.crc-canada.ca)

1-905-670-2291

In Mexico:

CRC Industries Mexico

Av. Benito Juárez 4055 G

Colonia Orquídea

San Luís Potosí, SLP CP 78394

[www.crc-mexico.com](http://www.crc-mexico.com)

52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

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## Section 2: Hazards Identification

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### Emergency Overview

**DANGER:** Flammable. Harmful or Fatal if Swallowed.

Appearance & Odor: Red liquid, faint petroleum odor

### Potential Health Effects:

**ACUTE EFFECTS:**

**EYE:** Eye contact may result in light irritation and redness.

**SKIN:** Short term contact with skin is unlikely to cause any problems. Excessive or repeated contact and poor hygiene conditions may result in dryness, dermatitis, erythema, oil acne, cracking and defatting of the skin.

**INHALATION:** Inhalation of vapors or mist may be irritating to the respiratory passages. Prolonged exposure may result in dizziness, nausea, and central nervous system depression (headache, lack of coordination, drowsiness).

**INGESTION:** May result in nausea or stomach discomfort. Main hazard, if swallowed, is aspiration into the lungs. This can lead to chemical pneumonitis, severe lung injury and possibly death.

**CHRONIC EFFECTS:** None known

**TARGET ORGANS:** Lungs (oil mist)

Medical Conditions Aggravated by Exposure: pre-existing skin disorders

See Section 11 for toxicology and carcinogenicity information on product ingredients.

Product Name: **Steer-X™ Power Steering Stop Leak**  
Product Number (s): **403015**

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### Section 3: Composition/Information on Ingredients

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| COMPONENT                   | CAS NUMBER | % by Wt. |
|-----------------------------|------------|----------|
| Hydrotreated naphthenic oil | 64742-52-5 | 70 - 80  |
| Isopropyl alcohol           | 67-63-0    | 10 - 15  |
| Xylene                      | 1330-20-7  | 3 - 8    |
| Toluene                     | 108-88-3   | 2 - 5    |
| Diacetone alcohol           | 123-42-2   | < 2      |
| Ethylbenzene                | 100-41-4   | 1.4      |

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### Section 4: First Aid Measures

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Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: If swallowed, observe for signs of stomach discomfort or nausea. If symptoms persist, seek medical help. Do NOT induce vomiting. If there is any suspicion of aspiration into the lungs, obtain immediate medical attention.

*Note to Physicians:* Treat symptomatically.

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### Section 5: Fire-Fighting Measures

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**Flammable Properties:** As defined by OSHA, this product is a Class IB Flammable Liquid.

|   |                           |
|---|---------------------------|
| Flash Point: 61°F / 16°C (TCC)            | Upper Explosive Limit: ND |
| Autoignition Temperature: > 600°F / 316°C | Lower Explosive Limit: ND |

**Fire and Explosion Data:**

Suitable Extinguishing Media: Halon, dry chemical, foam, CO<sub>2</sub>, water mist or fog, or any Class B extinguishing agent

Products of Combustion: Fumes, smoke, carbon monoxide

Explosion Hazards: Containers, when exposed to heat from fire, may build pressure and rupture. Vapors may accumulate in a confined space and create a flammable atmosphere.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition.

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### Section 6: Accidental Release Measures

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Personal Precautions: Use personal protection recommended in Section 8.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into

**Product Name: Steer-X™ Power Steering Stop Leak**  
**Product Number (s): 403015**

sewers or storm drains.

Methods for Containment & Clean-up: Dike area to contain spill. Eliminate all sources of ignition. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

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## Section 7: Handling and Storage

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Handling Procedures: Keep away from flames, sparks or hot surfaces. Wash thoroughly after handling and before handling food. Use proper grounding and bonding techniques when transferring material. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Containers should be tightly closed while in storage.

Aerosol Storage Level: NA

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## Section 8: Exposure Controls/Personal Protection

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### Exposure Guidelines:

| COMPONENT                   | OSHA |      | ACGIH |      | OTHER |        | UNIT              |
|-----------------------------|------|------|-------|------|-------|--------|-------------------|
|                             | TWA  | STEL | TWA   | STEL | TWA   | SOURCE |                   |
| Hydrotreated naphthenic oil | 5*   | NE   | 5*    | 10*  | NE    |        | mg/m <sup>3</sup> |
| Isopropyl alcohol           | 400  | NE   | 200   | 400  | NE    |        | ppm               |
| Xylene                      | 100  | NE   | 100   | 150  | NE    |        | ppm               |
| Toluene                     | 200  | 300  | 20    | NE   | NE    |        | ppm               |
| Diacetone alcohol           | 50   | NE   | 50    | NE   | NE    |        | ppm               |
| Ethylbenzene                | 100  | NE   | 20    | NE   | NE    |        | ppm               |

N.E. – Not Established      (c) – ceiling      (s) – skin      (v) – vacated      \* – oil mist

### Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as nitrile or neoprene. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Product Name: **Steer-X™ Power Steering Stop Leak**  
Product Number (s): **403015**

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## Section 9: Physical and Chemical Properties

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Physical State: liquid  
Color: red  
Odor: faint petroleum  
Odor Threshold: ND  
Specific Gravity: 0.876  
Initial Boiling Point: 180°F / 82°C  
Freezing Point: ND  
Vapor Pressure: ND  
Vapor Density: > 1 (air = 1)  
Evaporation Rate: slow  
Solubility: negligible  
Coefficient of water/oil distribution: ND  
pH: NA  
Volatile Organic Compounds: wt %: 23.8      g/L: 208.5      lbs./gal: 1.74

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## Section 10: Stability and Reactivity

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Stability: Stable  
Conditions to Avoid: Sources of ignition  
Incompatible Materials: Strong oxidizers, strong acids  
Hazardous Decomposition Products: Oxides of carbon, various hydrocarbons  
Possibility of Hazardous Reactions: No

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## Section 11: Toxicological Information

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Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

### Acute Toxicity:

| Component                   | Oral LD50 (rat) | Dermal LD50 (rabbit) | Inhalation LC50 (rat)        |
|-----------------------------|-----------------|----------------------|------------------------------|
| Hydrotreated naphthenic oil | > 5000 mg/kg    | > 2000 mg/kg         | 2.18 mg/L/4H                 |
| Isopropyl alcohol           | 5000 mg/kg      | 12,800 mg/kg         | 16,000 ppm/8H                |
| Xylene                      | 4300 mg/kg      | > 1700 mg/kg         | 5000 ppm/4H                  |
| Toluene                     | 636 mg/kg       | > 5000 mg/kg         | 49 g/m <sup>3</sup> /4H      |
| Diacetone alcohol           | 2520 mg/kg      | 13,500 mg/kg         | No data                      |
| Ethylbenzene                | 3500 mg/kg      | > 5000 mg/kg         | 55,000 mg/m <sup>3</sup> /2H |

### Chronic Toxicity:

| Component                   | OSHA<br>Carcinogen | IARC<br>Carcinogen | NTP<br>Carcinogen | Irritant  | Sensitizer |
|-----------------------------|--------------------|--------------------|-------------------|-----------|------------|
| Hydrotreated naphthenic oil | No                 | No                 | No                | No        | No         |
| Isopropyl alcohol           | No                 | No                 | No                | eye       | No         |
| Xylene                      | No                 | No                 | No                | skin      | Unknown    |
| Toluene                     | No                 | No                 | No                | skin      | No         |
| Diacetone alcohol           | No                 | No                 | No                | eye       | No         |
| Ethylbenzene                | No                 | Group 2B           | No                | eye, skin | Unknown    |

**Product Name: Steer-X™ Power Steering Stop Leak**  
**Product Number (s): 403015**

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Reproductive Toxicity: No information available  
Teratogenicity: No information available  
Mutagenicity: Hydrotreated naphthenic oil: Mutagenic index of less than 1.0  
Synergistic Effects: No information available  
Other: IARC has determined in reviewing cancer prevalence of exposed workers that the carcinogenic activity of refined oils is related to the severity of processing of the base oil. The base oils contained in this product have been highly refined to remove aromatics, thus reducing carcinogenic potential. IP346: DMSO < 3.0%

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## **Section 12: Ecological Information**

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Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: hydrotreated naphthenic oil – 96 Hr LC50, Fathead minnow: >30,000 mg/L (static)  
Persistence / Degradability: This product is not readily biodegradable.  
Bioaccumulation / Accumulation: No information available  
Mobility in Environment: No information available

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## **Section 13: Disposal Considerations**

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**Waste Classification:** This product is a RCRA hazardous waste for the characteristic of ignitability with the following waste code(s): D001. (See 40 CFR Part 261.20 – 261.33)  
Empty containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

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## **Section 14: Transport Information**

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US DOT (ground): UN1993, Flammable liquids, N.O.S. (isopropanol & xylene), 3, PGII, Limited Quantity\*\*  
ICAO/IATA (air): UN1993, Flammable liquids, N.O.S. (isopropanol & xylene), 3, PGII, Limited Quantity  
IMO/IMDG (water): UN1993, Flammable liquids, N.O.S. (isopropanol & xylene), 3, PGII, Limited Quantity  
Special Provisions: \*\*This product can be classified and labeled as 'Consumer Commodity, ORM-D' for domestic ground shipping.

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## **Section 15: Regulatory Information**

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### **U.S. Federal Regulations:**

#### Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

#### Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: Xylene (100 lbs), Toluene (1000 lbs), Ethylbenzene (1000 lbs)

**Product Name: Steer-X™ Power Steering Stop Leak**  
**Product Number (s): 403015**

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**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.**

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:

|                       |     |
|-----------------------|-----|
| Fire Hazard           | Yes |
| Reactive Hazard       | No  |
| Release of Pressure   | No  |
| Acute Health Hazard   | Yes |
| Chronic Health Hazard | Yes |

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
Xylene (< 7%), Toluene (< 4%), Ethylbenzene (1.4%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): Xylene, Toluene, Ethylbenzene

Occupational Safety and Health Administration:

This product is regulated by the Hazard Communications Standard.

**U.S. State Regulations:**

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: toluene, ethylbenzene

Consumer Products VOC Regulations: This product is not regulated.

State Right to Know:

New Jersey: 108-88-3, 1330-20-7, 67-63-0, 123-42-2, 100-41-4  
Pennsylvania: 108-88-3, 1330-20-7, 67-63-0, 123-42-2, 100-41-4  
Massachusetts: 108-88-3, 1330-20-7, 67-63-0, 123-42-2, 100-41-4  
Rhode Island : 108-88-3, 1330-20-7, 67-63-0, 123-42-2, 100-41-4

**Canadian Regulations:**

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: B2, D2A

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

**European Union Regulations:**

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

**Additional Regulatory Information:** None

**Product Name: Steer-X™ Power Steering Stop Leak**  
**Product Number (s): 403015**

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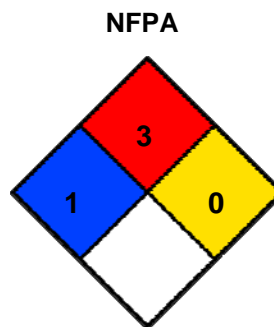
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## Section 16: Other Information

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| HMIS® (II)    |   |
|---------------|---|
| Health:       | 1 |
| Flammability: | 3 |
| Reactivity:   | 0 |
| PPE:          | B |



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick  
CRC #: 901  
Revision Date: 08/05/2013

Changes since last revision: MSDS reformatted to meet the requirements of the Canadian Controlled Products Regulations.

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 MSDS consult your supervisor, a health & safety professional, or CRC Industries.

|  |   |
|--|---|
| ACGIH: American Conference of Governmental Industrial Hygienists | NA: Not Applicable  |
| CAS: Chemical Abstract Service                                   | ND: Not Determined  |
| CFR: Code of Federal Regulations                                 | NIOSH: National Institute of Occupational Safety & Health |
| DOT: Department of Transportation                                | NFPA: National Fire Protection Association                |
| DSL: Domestic Substance List                                     | NTP: National Toxicology Program                          |
| g/L: grams per Liter   | OSHA: Occupational Safety and Health Administration       |
| HMIS: Hazardous Materials Identification System                  | PMCC: Pensky-Martens Closed Cup                           |
| IARC: International Agency for Research on Cancer                | PPE: Personal Protection Equipment                        |
| IATA: International Air Transport Association                    | ppm: Parts per Million                                    |
| ICAO: International Civil Aviation Organization                  | RoHS: Restriction of Hazardous Substances                 |
| IMDG: International Maritime Dangerous Goods                     | STEL: Short Term Exposure Limit                           |
| IMO: International Maritime Organization                         | TCC: Tag Closed Cup                                       |
| lbs./gal: pounds per gallon                                      | TWA: Time Weighted Average                                |
| LC: Lethal Concentration   | WHMIS: Workplace Hazardous Materials Information System   |
| LD: Lethal Dose  |   |