CRC MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Carquest Radiator Flush

Product Number (s): 2015, 2015C (CRC Part# 09633, 79633)

Product Use: Radiator cleaner

Manufacturer / Supplier Contact Information:

In United States: CRC Industries, Inc. 885 Louis Drive Warminster, PA 18974 <u>www.crcindustries.com</u> 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 <u>www.crc-canada.ca</u> 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 52-444-824-1666

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

Section 2: Hazards Identification

Emergency Overview

WARNING: May cause eye irritation Appearance & Odor: Yellow liquid, pleasant odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: May cause mild irritation to the eyes.

- SKIN: No acute effects expected. However, prolonged contact may cause mild irritation.
- INHALATION: No health effects expected under normal conditions of use.
- INGESTION: Generally non-toxic if ingested in small amounts. May cause vomiting, diarrhea or gastrointestinal discomfort.

CHRONIC EFFECTS: Unknown

TARGET ORGANS: Unknown

Medical Conditions Aggravated by Exposure: Unknown

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

Section 3: Composition/Information on Ingredients

| COMPONENT | CAS NUMBER | % by Wt. |
|-----------------------------------|------------|----------|
| Water | 7732-18-5 | > 95 |
| Amines, tallow alkyl, ethoxylated | 61791-26-2 | < 1 |
| Sodium tetraborate pentahydrate | 11130-12-4 | < 1 |

Section 4: First Aid Measures

| 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, DO NOT induce vomiting. Give victim a glass of water. If severe symptoms develop, get medical attention immediately. |
| Note to Physicians: | None |

Section 5: Fire-Fighting Measures

| | s defined by OSHA, this prod None (TCC) None | uct is non-flammable. Upper Explosive Limit: Lower Explosive Limit: | None None | | |
|---|--|---|---------------------------------------|--|--|
| Fire and Explosion Data: | | | | | |
| Suitable Extinguishing Media: | This material will not burn. | Use extinguishing media | appropriate for the surrounding fire. | | |
| Products of Combustion: If heated, product may product carbon oxides and nitrogen oxides. | | | | | |
| Explosion Hazards: Co | ntainers, when exposed to he | eat from fire, may build pre | essure and rupture. | | |
| Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye an skin protection should be provided. Use water spray to keep fire-exposed containers coor and to knock down vapors which may result from product decomposition. | | | | | |

Section 6: Accidental Release Measures

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 sewers or storm drains. This product may be harmful to aquatic life.

Methods for Containment & Clean-up: Dike area to contain spill. 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.

Section 7: Handling and Storage

Handling Procedures: Avoid contact with eyes, skin and clothing. Properly clean any spilled residue with a wet cloth. Wash hands after use and before handling food items. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Keep container closed when not in use.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

| | 05 | SHA | AC | GIH | 0 | THER | |
|---|-----|------|-----|------|-----|--------|------|
| COMPONENT | TWA | STEL | TWA | STEL | TWA | SOURCE | UNIT |
| Water | NE | NE | NE | NE | NE | | |
| Amines, tallow alkyl, ethoxylated | NE | NE | NE | NE | NE | | |
| Sodium tetraborate pentahydrate | NE | NE | NE | NE | NE | | |
| N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated | | | | | | | |

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. 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, neoprene or rubber. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: liquid Color: vellow Odor: pleasant Odor Threshold: ND Specific Gravity: 1.00 212°F / 100°C Initial Boiling Point: Freezing Point: 32°F / 0°C Vapor Pressure: ND Vapor Density: ND (air = 1)Evaporation Rate: slow Solubility: Soluble in water Coefficient of water/oil distribution: ND pH: 10.0

<u>wt %</u>: 0

Volatile Organic Compounds:

<u>g/L</u>: 0

lbs./gal: 0

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: None

Incompatible Materials: Strong oxidizers, acids

Hazardous Decomposition Products: None known

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

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

Acute Toxicity:

| <u>Component</u> | Oral LD50 (rat) | Dermal LD50 (rabbit) | Inhalation LC50 (rat) |
|-----------------------------------|-----------------|----------------------|-----------------------|
| Water | > 90 mL/kg | No data | No data |
| Amines, tallow alkyl, ethoxylated | > 1200 mg/kg | No data | No data |
| Sodium tetraborate pentahydrate | 3200 mg/kg | > 2000 mg/kg | No data |

Chronic Toxicity:

| | | OSHA | IARC | NTP | | |
|---|----------------------------------|------------|------------|-------------------|----------|-----------------|
| <u>Component</u> | | Carcinogen | Carcinogen | <u>Carcinogen</u> | Irritant | Sensitizer |
| Water | | No | No | No | No | No |
| Amines, tallow alkyl, eth | oxylated | No | No | No | E&S | yes |
| - | - | | | | (severe) | - |
| Sodium tetraborate pen | tahydrate | No | No | No | E (mild) | unknown |
| | | | | | | |
| | | | | E – Eye | S – Skin | R - Respiratory |
| <u>Reproductive Toxicity</u> : Teratogenicity: | No information No information | | | | | |
| | No information | | | | | |
| Mutagenicity: | | | | | | |
| Synergistic Effects: | No information | avaliable | | | | |

Section 12: Ecological Information

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

Ecotoxicity:Amines, tallow alkyl, ethoxylated - 48 Hr EC50 Daphnia magna: 0.011 mg/LPersistence / Degradability:No information availableBioaccumulation / Accumulation:No information availableMobility in Environment:No information available

Section 13: Disposal Considerations

<u>Waste Classification</u>: This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Wastes should be collected and properly disposed. Do not dump into bodies of water or on the ground. 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.

Section 14: Transport Information

US DOT (ground): Not regulated

ICAO/IATA (air): Not regulated

IMO/IMDG (water): Not regulated

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA):

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

<u>Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)</u>: Reportable Quantities (RQ's) exist for the following ingredients: None

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

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: None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

Occupational Safety and Health Administration:

This product is regulated by the Hazard Communications Standard.

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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 | None |
|--|------|
| California to cause cancer, birth defects or other reproductive harm: | None |

Consumer Products VOC Regulations: This product is not regulated.

State Right to Know:

New Jersey:NonePennsylvania:NoneMassachusetts:NoneRhode Island :None

Canadian Regulations:

Controlled Products Regulations:

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

WHMIS Hazard Class: Not regulated

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

European Union Regulations:

<u>RoHS Compliance</u>: 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

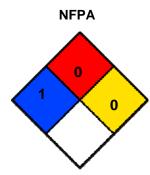
Section 16: Other Information

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

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

Prepared By:Michelle RudnickCRC #:613ARevision Date:08/25/2014

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



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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
- CAS: Chemical Abstract Service
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- DSL: Domestic Substance List
- g/L: grams per Liter
- HMIS: Hazardous Materials Identification System
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organization
- IMDG: International Maritime Dangerous Goods
- IMO: International Maritime Organization
- lbs./gal: pounds per gallon
- LC: Lethal Concentration
- LD: Lethal Dose

- NA: Not Applicable
- ND: Not Determined
- NIOSH: National Institute of Occupational Safety & Health
- NFPA: National Fire Protection Association
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PMCC: Pensky-Martens Closed Cup
- PPE: Personal Protection Equipment
- ppm: Parts per Million
- RoHS: Restriction of Hazardous Substances
- STEL: Short Term Exposure Limit
- TCC: Tag Closed Cup
- TWA: Time Weighted Average
- WHMIS: Workplace Hazardous Materials Information System