# MATERIAL SAFETY DATA SHEET

## Section 1: Product & Company Identification

**Product Name:** **NAPA/CRC® Throttle Body and Air Intake Cleaner** (aerosol)

**Product Number (s):** **092400**

**Product Use:** Fuel-Injection Air Intake Cleaner

**Manufacturer / Supplier Contact Information:**


In United States:
CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
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
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**

**DANGER:** Extremely Flammable. Vapors May Cause Flash Fires. Harmful or Fatal if Swallowed. Eye and Skin Irritant. Contents Under Pressure.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

Appearance & Odor: Clear, colorless liquid; ketone odor

**Potential Health Effects:**

ACUTE EFFECTS:

EYE: Moderate eye irritant. Exposure can cause irritation including stinging, tearing, redness, blurred vision, and swelling of the eyes.

SKIN: Moderate skin irritant. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of the skin, and skin burns. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

INHALATION: Breathing large amounts of this material may be harmful. Symptoms include irritation of the nose and throat and central nervous system depression (dizziness, drowsiness, weakness, headache, nausea, disorientation, unconsciousness).

INGESTION: Main hazard is aspiration. This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage. Swallowing this material may also cause nausea and diarrhea. Acetone poisoning may result in liver and kidney damage.

CHRONIC EFFECTS: Exposure to high concentrations of this material may increase the sensitivity of the heart to certain drugs. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TARGET ORGANS: liver, kidneys, central nervous system

Medical Conditions Aggravated by Exposure: skin sensitivities, respiratory (asthma-like) disorders

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

## Section 3: Composition/Information on Ingredients

| COMPONENT | CAS NUMBER | % by Wt. |
|---|---|---|
| Acetone | 67-64-1 | 70 - 80 |
| Heptane isomers | 142-82-5 | 10 – 20 |
| Toluene | 108-88-3 | 3 – 8 |
| Diacetone alcohol | 123-42-2 | < 2 |
| Carbon dioxide | 124-38-9 | 5 - 15 |

## 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: Seek medical attention. Do not induce vomiting unless instructed by medical personnel. Have victim drink a glass of water if conscious.

*Note to Physicians*: This material is an aspiration hazard. This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion. Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to high concentrations of hydrocarbon solvents. The use of other drugs with less arrhythmogenic potential should be considered.

## Section 5: Fire-Fighting Measures

**Flammable Properties:** This product is extremely flammable in accordance with aerosol flammability definitions. (See 16 CFR 1500.3(c)(6) ).

Flash Point: < 0℉ (TCC) Upper Explosive Limit: 12.8
Autoignition Temperature: 869℉ Lower Explosive Limit: 2.5

**Fire and Explosion Data:**

Suitable Extinguishing Media: Dry chemical, carbon dioxide, alcohol-resistant foam, Class B extinguishers

Products of Combustion: Oxides of carbon

Explosion Hazards: Aerosol containers, when exposed to heat from fire, may build pressure and explode. 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.

## 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.

Methods for Containment & Clean-up: Eliminate sources of ignition. 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: Do not use near potential sources of ignition. Wash thoroughly after use and before handling food. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. For product use instructions, please see the product label.

Storage Procedures: Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Aerosol cans must be maintained below 120 F to prevent cans from rupturing. Keep away from incompatible materials.

Aerosol Storage Level: III

## Section 8: Exposure Controls/Personal Protection

**Exposure Guidelines:**

| | OSHA | | ACGIH | | OTHER | | |
|---|---|---|---|---|---|---|---|
| COMPONENT | TWA | STEL | TWA | STEL | TWA | SOURCE | UNIT |
| Acetone | 1000 | NE | 500 | 750 | NE | | ppm |
| Heptane | 500 | NE | 400 | 500 | NE | | ppm |
| Toluene | 200 | 300 (c) | 20 | NE | NE | | ppm |
| Diacetone alcohol | 50 | NE | 50 | NE | NE | | ppm |
| Carbon dioxide | 5000 | 30000(v) | 5000 | 30000 | NE | | ppm |
| 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. 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, PVA, or neoprene. 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: clear, colorless
Odor: ketone
Odor Threshold: ND
Specific Gravity: 0.780
Initial Boiling Point: 132°
Freezing Point: < -100℉
Vapor Pressure: ND
Vapor Density: 2 (air = 1)
Evaporation Rate: fast (ether = 1)
Solubility: slightly soluble in water
Coefficient of water/oil distribution: ND
pH: NA
Volatile Organic Compounds: wt %: 18.2 g/L: 141.96 lbs./gal: 1.18

## Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Sources of ignition; temperature extremes

Incompatible Materials: Avoid contact with alkalis, reducing agents, acids and oxidizers such as chlorine and other halogens, chromates, perchlorates, peroxides and oxygen.

Hazardous Decomposition Products: Oxides of carbon, various hydrocarbons

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:**

| Component | Oral LD50 (rat) | Dermal LD50 (rabbit) | Inhalation LC50 (rat) |
|---|---|---|---|
| Acetone | 5800 mg/kg | No data | 50,100 mg/m$^3$/8H |
| Heptane | No data | No data | 103 g/m$^3$/4H |
| Toluene | 636 mg/kg | 14,100 µL/kg | 49 g/m$^3$/4H |
| Diacetone alcohol | 2520 mg/kg | 13,500 mg/kg | No data |
| Carbon dioxide | No data | No data | 470,000 ppm/30M |

**Chronic Toxicity:**

| Component | OSHA Carcinogen | IARC Carcinogen | NTP Carcinogen | Irritant | Sensitizer |
|---|---|---|---|---|---|
| Acetone | No | No | No | E (moderate) / S (moderate) / R (mild) | Yes |
| Heptane | No | No | No | E (mild) / S (moderate) / R (mild) | Unknown |
| Toluene | No | No | No | E (mild) / S (mild) / R (mild) | Unknown |
| Diacetone alcohol | No | No | No | E (moderate) / R (mild) | Unknown |
| Carbon dioxide | No | No | No | No | No |

E – Eye S – Skin R - Respiratory

Reproductive Toxicity: No information available
Teratogenicity: No information available
Mutagenicity: No information available
Synergistic Effects: No information available

## Section 12: Ecological Information

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

Ecotoxicity: Acetone – 48H LC50 Daphnia: 10 mg/l
Persistence / Degradability: No information available
Bioaccumulation / Accumulation: No information available
Mobility in Environment: No information available

## Section 13: Disposal Considerations

**Waste Classification:** The dispensed liquid product is a RCRA hazardous waste for the characteristic of ignitability with the following potential waste code(s) D001. Pressurized containers are a D003 reactive waste. (See 40 CFR Part 261.20 – 261.33)
Empty aerosol 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): Consumer Commodity, ORM-D

ICAO/IATA (air): Consumer Commodity, ID8000, 9

IMO/IMDG (water): Aerosols, UN1950, 2.1, Limited Quantity

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.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):
Reportable Quantities (RQ's) exist for the following ingredients: Acetone (5000 lbs), Toluene (1000 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.**

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 | Yes |
| Acute Health Hazard | Yes |
| 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:
Toluene (5%)

Clean Air Act:
Section 112 Hazardous Air Pollutants (HAPs): Toluene

**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

Consumer Products VOC Regulations: In states with consumer products VOC regulations, this product is compliant as a Fuel-Injection Air Intake Cleaner.

State Right to Know:

| | |
|---|---|
| New Jersey: | 67-64-1, 108-88-3, 142-82-5, 124-38-9, 123-42-2 |
| Pennsylvania: | 67-64-1, 108-88-3, 142-82-5, 124-38-9, 123-42-2 |
| Massachusetts: | 67-64-1, 108-88-3, 142-82-5, 124-38-9, 123-42-2 |
| Rhode Island : | 67-64-1, 108-88-3, 142-82-5, 124-38-9, 123-42-2 |

**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: A, B5, D2B

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.

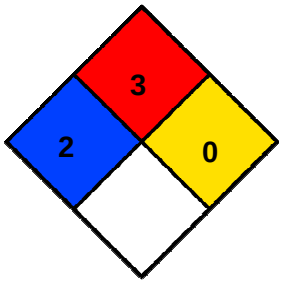
**Additional Regulatory Information**: None

## Section 16: Other Information

| HMIS® (II) | |
|---|---|
| **Health:** | **2** |
| **Flammability:** | **3** |
| **Reactivity:** | **0** |
| **PPE:** | **B** |

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

**NFPA**




Prepared By: Michelle Rudnick
CRC #: 464J
Revision Date: 01/27/2009

Changes since last revision: Formula change

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

# Material Safety Data Sheet

## Section 1: Product & Company Identification

**Product Name:** **NAPA/CRC® Engine Degreaser (Low VOC)**

**Product Number (s):** **091433**

**Manufactured By:**


CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

| | |
|---|---|
| General Information | (215) 674-4300 |
| Technical Assistance | (800) 521-3168 |
| Customer Service | (800) 272-8963 |
| 24-Hr Emergency (CHEMTREC) | (800) 424-9300 |


## Section 2: Hazards Identification

**Emergency Overview**

Appearance & Odor: Clear, light amber liquid, petroleum odor

**DANGER**

Flammable. Harmful or Fatal if Swallowed. Vapor Harmful. Contents Under Pressure.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

**Potential Health Effects:**

| | |
|---|---|
| EYE: | Contact with liquid or vapor may cause mild irritation. |
| SKIN: | May cause skin irritation with prolonged or repeated contact. Practically non-toxic if absorbed following a single exposure. |
| INHALATION: | Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure and death. |
| INGESTION: | Ingestion may cause gastrointestinal disturbance, including irritation, nausea, vomiting and diarrhea. The major health threat of ingestions occurs from the danger of aspiration of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia, severe lung damage and even death. |
| CHRONIC EFFECTS: | Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed. |
| TARGET ORGANS: | Central nervous system |

Medical Conditions Aggravated by Exposure:

Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis.

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

## Section 3: Composition/Information on Ingredients

| COMPONENT | CAS NUMBER | % by Wt. |
|---|---|---|
| Petroleum Distillate | 68476-34-6 | 35 - 45 |
| Hydrotreated light distillate | 64742-47-8 | 30 - 40 |
| Xylene | 1330-20-7 | 10 - 15 |
| Detergent | 68412-54-4 | 5 - 10 |
| Ethylbenzene | 100-41-4 | 2 - 4 |
| Carbon dioxide | 124-38-9 | < 5 |

## 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: Do NOT induce vomiting. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Mouth can be rinsed to dissipate the taste.

*Note to Physicians*: Treat symptomatically.

## Section 5: Fire-Fighting Measures

Flammable Properties: This product is flammable in accordance with aerosol flammability definitions (16 CFR 1500.3(c)(6)).

| | | | |
|---|---|---|---|
| Flash Point: | 108 F (TCC) | Upper Explosive Limit: | 7.5 |
| Autoignition Temperature: | ND | Lower Explosive Limit: | 0.6 |

Suitable Extinguishing Media: Use extinguishers rated for Class B fires, such as dry chemical, Halon, fire fighting foam or CO2.

Products of Combustion: Oxides of carbon

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.

## 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.

Methods for Containment & Clean-up: Remove all sources of ignition. 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: Keep away from heat, sparks and open flame. Provide adequate ventilation during use. Do not breathe vapors. Avoid eye and skin contact. Wash hands after use.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing. Store in a well ventilated area. Keep out of reach of children.

Aerosol Storage Level: III

## Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

| | OSHA | | ACGIH | | OTHER | | |
|---|---|---|---|---|---|---|---|
| COMPONENT | TWA | STEL | TWA | STEL | TWA | SOURCE | UNIT |
| | | | | | | | |
| Petroleum Distillate | 5 | NE | 100 | NE | NE | | $mg/m^3$ |
| Hydrotreated light distillate | NE | NE | NE | NE | NE | | |
| Xylene | 100 | 150(v) | 100 | 150 | NE | | ppm |
| Detergent | NE | NE | NE | NE | NE | | |
| Ethylbenzene | 100 | 125(v) | 100 | 125 | NE | | ppm |
| Carbon dioxide | 5000 | NE | 5000 | 30000 | NE | | ppm |
| N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated | | | | | | | |

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. 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 NIOSH-approved cartridge respirators with organic vapor cartridges if vapor levels exceed exposure limits. Use a self-contained breathing apparatus 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 PVC. 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: Light amber
Odor: Petroleum
Specific Gravity: 0.8403
Initial Boiling Point: 250 F
Freezing Point: ND
Vapor Pressure: ND
Vapor Density: > 1 (air = 1)
Evaporation Rate: < 1 (ether = 1)
Solubility: Emulsifies in water
pH: NA
Volatile Organic Compounds: wt %: 31.1 g/L: 261.3 lbs./gal: 2.18

## Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: temperature extremes, sources of ignition

Incompatible Materials: Strong oxidizers, Viton®, Fluorel®

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, non-combusted hydrocarbons (smoke)

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 EFFECTS

| Component | Test | Result | Route | Species |
|---|---|---|---|---|
| Petroleum Distillate | LD50 | 9 ml/kg | Oral | Rat |
| Petroleum Distillate | LD50 | > 5 ml/kg | Dermal | Rabbit |
| Ethylbenzene | LD50 | 3500 mg/kg | Oral | Rat |
| Ethylbenzene | LC50 | 15354 mg/kg | Dermal | Rabbit |
| Ethylbenzene | LC50 | 17.2 mg/L/4H | Inhalation | Rat |

CHRONIC EFFECTS

Carcinogenicity:

| | Component | Result |
|---|---|---|
| OSHA: | None listed | |
| IARC: | None listed | |
| NTP: | None listed | |

Mutagenicity: Petroleum Distillate — This material has been positive in a mutagenicity study.

## Section 12: Ecological Information

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

| | |
|---|---|
| Ecotoxicity: | Xylene - 96 Hr LC50 fathead minnow: 13.4 mg/L (flow-through)<br>Ethylbenzene - 48 Hr EC50 water flea: 2.1 mg/L |
| Persistence / Degradability: | No information available |
| Bioaccumulation / Accumulation: | No information available |
| Mobility in Environment: | Spills may penetrate the soil causing groundwater contamination. This material may accumulate in sediments. |

## Section 13: Disposal Considerations

Disposal: This product is a RCRA hazardous waste for the characteristic of flammability: D001
(See 40 CFR Part 261.20 – 261.33)
Aerosol containers should be emptied and depressurized before disposal. Empty containers may be recycled. Any liquid product should be managed as a hazardous waste.

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

## Section 14: Transport Information

Proper shipping description:

US DOT (ground): Consumer Commodity, ORM-D

Special Provisions: None

## Section 15: Regulatory Information

**U.S. Federal**

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), Ethylbenzene (1000 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.**

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 | Yes |
| | 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 (12%), Ethylbenzene (3%)

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

**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: Ethylbenzene, Naphthalene (< 0.01%)

State Right to Know:

| | |
|---|---|
| New Jersey: | 1330-20-7, 100-41-4 |
| Pennsylvania: | 1330-20-7, 100-41-4 |
| Massachusetts: | 1330-20-7, 100-41-4 |
| Rhode Island : | 1330-20-7, 100-41-4 |

**Additional Regulatory Information**: In states with Consumer Products VOC regulations, this product is compliant as an Engine Degreaser.

## Section 16: Other Information

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NFPA: | Health: | 2 | Flammability: | 2 | Reactivity: | 0 | |
| HMIS: | Health: | 2 | Flammability: | 2 | Reactivity: | 0 | PPE: B |

Prepared By: Michelle Rudnick
CRC #: 567G
Revision Date: 01/16/2009

Changes since last revision: Section 15: Additional Regulatory Information revised

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.

| | | | |
|---|---|---|---|
| CAS: | Chemical Abstract Service | NA: | Not Applicable |
| ppm: | Parts per Million | ND: | Not Determined |
| TCC: | Tag Closed Cup | NE: | Not Established |
| PMCC: | Pensky-Martens Closed Cup | g/L: | grams per Liter |
| PPE: | Personal Protection Equipment | lbs./gal: | pounds per gallon |
| TWA: | Time Weighted Average | STEL: | Short Term Exposure Limit |
| OSHA: | Occupational Safety and Health Administration | | |
| ACGIH | American Association of Governmental Industrial Hygienists | | |
| NIOSH | National Institute of Occupational Safety & Health | | |

# Material Safety Data Sheet

## Section 1: Product & Company Identification

**Product Name:** **NAPA/CRC® Fast Motor Flush™**

**Product Number (s):** **095336**

**Manufactured By:**


CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

| | |
|---|---|
| General Information | (215) 674-4300 |
| Technical Assistance | (800) 521-3168 |
| Customer Service | (800) 272-8963 |
| 24-Hr Emergency (CHEMTREC) | (800) 424-9300 |


## Section 2: Hazards Identification

**Emergency Overview**

Appearance & Odor: Light amber liquid, petroleum odor

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

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

**Potential Health Effects:**

| | |
|---|---|
| EYE: | Contact with liquid or vapor may cause mild irritation. |
| SKIN: | May cause skin irritation with prolonged or repeated contact. Practically non-toxic if absorbed following a single exposure. |
| INHALATION: | Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure and death. |
| INGESTION: | Ingestion may cause gastrointestinal disturbance, including irritation, nausea, vomiting and diarrhea. The major health threat of ingestions occurs from the danger of aspiration of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia, severe lung damage and even death. |
| CHRONIC EFFECTS: | Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed. |
| TARGET ORGANS: | Central nervous system |

Medical Conditions Aggravated by Exposure:

Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis.

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

## Section 3: Composition/Information on Ingredients

| COMPONENT | CAS NUMBER | % by Wt. |
|---|---|---|
| Petroleum Distillate | 68476-34-6 | 80 – 90 |
| Xylene | 1330-20-7 | 5 - 10 |
| 2-Butoxy Ethanol | 111-76-2 | 3 |
| Acetone | 67-64-1 | < 5 |
| Ethylbenzene | 100-41-4 | < 2 |

## 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: Do NOT induce vomiting. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Mouth can be rinsed to dissipate the taste.

*Note to Physicians*: Treat symptomatically.

## Section 5: Fire-Fighting Measures

Flammable Properties: In accordance with OSHA definitions, this product is a flammable liquid.

| | | | |
|---|---|---|---|
| Flash Point: | 95 F (TCC) | Upper Explosive Limit: | 7.5 |
| Autoignition Temperature: | 494 F | Lower Explosive Limit: | 0.6 |

Suitable Extinguishing Media: Use extinguishers rated for Class B fires, such as dry chemical, Halon, fire fighting foam or CO2.

Products of Combustion: Oxides of carbon

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.

## 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.

Methods for Containment & Clean-up: Remove all sources of ignition. 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: Keep away from heat, sparks and open flame. Bond and ground containers during product transfer to reduce the possibility of static-initiated fire or explosion. Provide adequate ventilation during use. Do not breathe vapors. Wash hands after use.

Storage Procedures: Store in a cool dry area out of direct sunlight. Store in a well ventilated area. Keep out of reach of children.

Aerosol Storage Level: NA

## Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

| | OSHA | | ACGIH | | OTHER | | |
|---|---|---|---|---|---|---|---|
| COMPONENT | TWA | STEL | TWA | STEL | TWA | SOURCE | UNIT |
| | | | | | | | |
| Petroleum Distillate | 5 | NE | 100 | NE | NE | | $mg/m^3$ |
| Xylene | 100 | 150(v) | 100 | 150 | NE | | ppm |
| 2-Butoxy Ethanol | 50 | NE | 20 | NE | NE | | ppm |
| Acetone | 1000 | 1000(v) | 500 | 750 | NE | | ppm |
| Ethylbenzene | 100 | 125(v) | 100 | 125 | NE | | ppm |
| N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated | | | | | | | |

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. 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 NIOSH-approved self-contained positive pressure respirators in low circulation areas 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 PVC. 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: Light amber
Odor: Petroleum
Specific Gravity: 0.8655
Initial Boiling Point: 320 F
Freezing Point: ND
Vapor Pressure: ND
Vapor Density: > 1 (air = 1)
Evaporation Rate: < 1 (ether = 1)
Solubility: Negligible in water
pH: NA
Volatile Organic Compounds: wt %: 46.4 g/L: 401.6 lbs./gal: 3.35

## Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: temperature extremes, sources of ignition

Incompatible Materials: Strong oxidizers, Viton®, Fluorel®

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, non-combusted hydrocarbons (smoke)

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 EFFECTS

| Component | Test | Result | Route | Species |
|---|---|---|---|---|
| Petroleum Distillate | LD50 | 9 ml/kg | Oral | Rat |
| Petroleum Distillate | LD50 | > 5 ml/kg | Dermal | Rabbit |
| 2-Butoxy Ethanol | LD50 | 470 mg/kg | Oral | Rat |
| 2-Butoxy Ethanol | LC50 | 2.21 mg/L/4H | Inhalation | Rat |
| Ethylbenzene | LC50 | 17.2 mg/L/4H | Inhalation | Rat |

CHRONIC EFFECTS

Carcinogenicity:

| | Component | Result |
|---|---|---|
| OSHA: | Ethylbenzene | Hazard Communication Carcinogen |
| IARC: | Ethylbenzene | Group 2B – Possibly Carcinogenic |
| NTP: | None listed | |

Mutagenicity: Petroleum Distillate — This material has been positive in a mutagenicity study.

## Section 12: Ecological Information

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

| | |
|---|---|
| Ecotoxicity: | Xylene - 96 Hr LC50 fathead minnow: 13.4 mg/L (flow-through)<br>2-Butoxy Ethanol - 24 Hr LC50 water flea: 1720 mg/L |
| Persistence / Degradability: | No information available |
| Bioaccumulation / Accumulation: | No information available |
| Mobility in Environment: | Spills may penetrate the soil causing groundwater contamination. This material may accumulate in sediments. |

## Section 13: Disposal Considerations

Disposal: This product is a RCRA hazardous waste for the characteristic of flammability: D001 (See 40 CFR Part 261.20 – 261.33)

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

## Section 14: Transport Information

Proper shipping description:

US DOT (ground): Consumer Commodity, ORM-D

Special Provisions: None

## Section 15: Regulatory Information

**U.S. Federal**

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), Acetone (5000 lbs), Ethylbenzene (1000 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.**

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 (8%), 2-Butoxyethanol (3%), Ethylbenzene (2%)

Clean Air Act:

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

Consumer Product Safety Act General Conformity Certification: This product was evaluated by CRC Industries, Inc., and is certified to be in compliance with the provisions of the Consumer Product Safety Act, the Federal Hazardous Substances Act and the Poison Prevention Packaging Act, as applicable. This product was manufactured at the location listed in Section 1 of this MSDS. The date of manufacture is stamped on the product container. No testing is required to certify compliance with the above-mentioned regulations.

**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: Ethylbenzene, Naphthalene (< 0.01%)

State Right to Know:

| | |
|---|---|
| New Jersey: | Xylene, 2-Butoxy Ethanol, Acetone, Ethylbenzene |
| Pennsylvania: | Xylene, 2-Butoxy Ethanol, Acetone, Ethylbenzene |
| Massachusetts: | Xylene, 2-Butoxy Ethanol, Acetone, Ethylbenzene |
| Rhode Island : | Xylene, 2-Butoxy Ethanol, Acetone, Ethylbenzene |

**Additional Regulatory Information**: None

## Section 16: Other Information

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NFPA: | Health: | 2 | Flammability: | 3 | Reactivity: | 0 | | |
| HMIS: | Health: | 2 | Flammability: | 3 | Reactivity: | 0 | PPE: | B |

Prepared By: Michelle Rudnick
CRC #: 611A
Revision Date: 11/26/2008

Changes since last revision: Section 2 revised

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.

| | | | |
|---|---|---|---|
| CAS: | Chemical Abstract Service | NA: | Not Applicable |
| ppm: | Parts per Million | ND: | Not Determined |
| TCC: | Tag Closed Cup | NE: | Not Established |
| PMCC: | Pensky-Martens Closed Cup | g/L: | grams per Liter |
| PPE: | Personal Protection Equipment | lbs./gal: | pounds per gallon |
| TWA: | Time Weighted Average | STEL: | Short Term Exposure Limit |
| OSHA: | Occupational Safety and Health Administration | | |
| ACGIH | American Association of Governmental Industrial Hygienists | | |
| NIOSH | National Institute of Occupational Safety & Health | | |

# Material Safety Data Sheet

## Section 1: Product & Company Identification

**Product Name:** **Mass Air Flow Sensor Cleaner** (Aerosol)

**Product Number (s):** **05110**

**Manufactured By:**


CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

| | |
|---|---|
| General Information | (215) 674-4300 |
| Technical Assistance | (800) 521-3168 |
| Customer Service | (800) 272-8963 |
| 24-Hr Emergency (CHEMTREC) | (800) 424-9300 |


## Section 2: Hazards Identification

**Emergency Overview**

Appearance & Odor: Clear, colorless liquid with alcohol odor

**DANGER**

Extremely flammable. Harmful or fatal if swallowed. Contents under pressure.

As defined by OSHA's Hazard Communication Standard, this product is hazardous.

**Potential Health Effects:**

| | |
|---|---|
| EYE: | May cause mild irritation including stinging and redness, but does not injure eye. |
| SKIN: | Single, brief exposures may cause mild irritation. Frequent or prolonged contact may cause more severe irritation, defatting of the skin, and dermatitis. |
| INHALATION: | High vapor concentrations are irritating to the respiratory tract and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects, including death. May cause peripheral nervous system disorder and/or damage. |
| INGESTION: | Low order of toxicity by ingestion. Main hazard is aspiration into the lungs during swallowing or vomiting. Small amounts aspirated into the respiratory system may cause bronchopneumonia or pulmonary adema, possible progressing to death. |
| CHRONIC EFFECTS: | Overexposure to n-hexane may cause progressive and potentially irreversible damage to the peripheral nervous system, particularly in the arms and legs. |
| TARGET ORGANS: | central nervous system, peripheral nervous system, respiratory system |

Medical Conditions Aggravated by Exposure: skin and respiratory conditions

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

## Section 3: Composition/Information on Ingredients

| COMPONENT | CAS NUMBER | % by Wt. |
|---|---|---|
| Hexane isomers | various | 75 - 85 |
| n-Hexane | 110-54-3 | 6.1 |
| COzol® 204 | Proprietary | 5 - 10 |
| Carbon dioxide | 124-38-9 | 3 - 8 |

## 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: DO NOT induce vomiting. Contact a physician immediately.

*Note to Physicians*: Treat symptomatically. Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

## Section 5: Fire-Fighting Measures

Flammable Properties: This product is extremely flammable in accordance with aerosol flammability definitions (16 CFR 1500.3(c)(6) ).

| | | | |
|---|---|---|---|
| Flash Point: | < 0 F (TCC) | Upper Explosive Limit: | 9.0 |
| Autoignition Temperature: | 489 F | Lower Explosive Limit: | 1.7 |

Suitable Extinguishing Media: Class B fire extinguishers, dry chemical, foam or CO2

Products of Combustion: fumes, smoke and carbon monoxide

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 fog or spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition. Do not spray water directly on fire; product will float and could be reignited on surface of water.

## 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.

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

## Section 7: Handling and Storage

Handling Procedures: Use proper grounding and bonding procedures for transferring materials. Do not use product near any source of ignition. Do not touch container to electrical sources as container will conduct electricity. Avoid contact with eyes and skin. Avoid breathing vapors.

Storage Procedures: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120 F to prevent cans from rupturing.

Aerosol Storage Level: III

## Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

| | OSHA | | ACGIH | | OTHER | | |
|---|---|---|---|---|---|---|---|
| COMPONENT | TWA | STEL | TWA | STEL | TWA | SOURCE | UNIT |
| | | | | | | | |
| Hexane isomers | 500(v) | 1000(v) | 500 | 1000 | NE | | ppm |
| n-Hexane | 500 | NE | 50(s) | NE | NE | | ppm |
| COzol® 204 | 200 | 250 (v) | 200 | 250 | NE | | ppm |
| Carbon dioxide | 5000 | 30000(v) | 5000 | 30000 | NE | | ppm |
| N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated | | | | | | | |

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. 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 NIOSH-approved cartridge respirator with an organic vapor cartridge if vapors exceed exposure limits. 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, PVC or Viton. 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: clear, colorless
Odor: alcohol

Specific Gravity: 0.6699
Initial Boiling Point: 140 F
Freezing Point: < -76 F
Vapor Pressure: 160 mmHg @ 68 F
Vapor Density: > 1 (air = 1)
Evaporation Rate: 9 (Butyl acetate = 1)
Solubility: negligible in water
pH: NA
Volatile Organic Compounds: wt %: 95 g/L: 636.4 lbs./gal: 5.3

## Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: sources of ignition, temperature extremes

Incompatible Materials: strong oxidizers

Hazardous Decomposition Products: oxides of carbon

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 EFFECTS

| Component | Test | Result | Route | Species |
|---|---|---|---|---|
| n-hexane | LD50 | 28710 mg/kg | Oral | Rat |
| n-hexane | LD50 | 3000 mg/kg | Dermal | Rabbit |
| n-hexane | LC50 | 48000 ppm/4H | Inhalation | Rat |

CHRONIC EFFECTS

Carcinogenicity:

| | Component | Result |
|---|---|---|
| OSHA: | None listed | |
| IARC: | None listed | |
| NTP: | None listed | |

Mutagenicity: No information available

## Section 12: Ecological Information

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

Ecotoxicity: n-hexane - 48 Hr EC50 water flea: 3.87 mg/L
96 Hr LC50 Lepomis macrochirus: 4.12 mg/L

Persistence / Degradability: No information available

Bioaccumulation / Accumulation: No information available
Mobility in Environment: No information available

## Section 13: Disposal Considerations

Disposal: The dispensed liquid product is a RCRA hazardous waste for the characteristic of ignitability with a waste code of D001 (See 40 CFR Part 261.20 – 261.33).
Aerosol containers should be emptied and depressurized before disposal. Empty containers may be recycled. Any liquid product should be managed as a hazardous waste.

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

## Section 14: Transport Information

Proper shipping description:

US DOT (ground): Consumer Commodity, ORM-D

Special Provisions: None

## Section 15: Regulatory Information

**U.S. Federal**

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: n-hexane (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.**

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 | Yes |
| 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:
n-hexane (6.1%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): n-hexane

Consumer Product Safety Act General Conformity Certification: This product was evaluated by CRC Industries, Inc., and is certified to be in compliance with the provisions of the Consumer Product Safety Act, the Federal Hazardous Substances Act and the Poison Prevention Packaging Act, as applicable. This product was manufactured at the location listed in Section 1 of this MSDS. The date of manufacture is stamped on the product container. No testing is required to certify compliance with the above

**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: NONE

State Right to Know:

| | |
|---|---|
| New Jersey: | 75-83-2, 110-54-3, 79-29-8, 124-38-9 |
| Pennsylvania: | 107-83-5, 75-83-2, 110-54-3, 79-29-8, 67-56-1, 124-38-9 |
| Massachusetts: | 107-83-5, 75-83-2, 110-54-3, 79-29-8, 124-38-9 |
| Rhode Island : | 110-54-3, 124-38-9 |

**Additional Regulatory Information**: None

## Section 16: Other Information

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| NFPA: | Health: | 2 | Flammability: | 3 | Reactivity: | 0 | |
| HMIS: | Health: | 2 | Flammability: | 3 | Reactivity: | 0 | PPE: B |

Prepared By: Michelle Rudnick
CRC #: 599C
Revision Date: 11/07/2008

Changes since last revision: Section 15: CPSA Certification added

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.

| | | | |
|---|---|---|---|
| CAS: | Chemical Abstract Service | NA: | Not Applicable |
| ppm: | Parts per Million | ND: | Not Determined |
| TCC: | Tag Closed Cup | NE: | Not Established |
| PMCC: | Pensky-Martens Closed Cup | g/L: | grams per Liter |
| PPE: | Personal Protection Equipment | lbs./gal: | pounds per gallon |
| TWA: | Time Weighted Average | STEL: | Short Term Exposure Limit |
| OSHA: | Occupational Safety and Health Administration | | |
| ACGIH | American Conference of Governmental Industrial Hygienists | | |
| NIOSH | National Institute of Occupational Safety & Health | | |

# MATERIAL SAFETY DATA SHEET

## Section 1: Product & Company Identification

**Product Name:** **Guaranteed To Pass® Emissions Test Formula**

**Product Number (s):** **05063, 75060-6**

**Product Use:** Fuel system additive

**Manufacturer / Supplier Contact Information:**


In United States:
CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
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
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**

**DANGER:** Combustible. Harmful or Fatal if Swallowed.
As defined by OSHA's Hazard Communication Standard, this product is hazardous.
Appearance & Odor: Light amber liquid, petroleum odor

**Potential Health Effects:**

ACUTE EFFECTS:

EYE: Contact with liquid or vapor may cause mild to moderate irritation.

SKIN: May cause skin irritation with prolonged or repeated contact. Practically non-toxic if absorbed following a single exposure.

INHALATION: Excessive exposure may cause irritations to the nose, throat, lungs and respiratory tract. Central nervous system effects may include headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure and death.

INGESTION: Ingestion may cause gastrointestinal disturbance, including irritation, nausea, vomiting and diarrhea. The major health threat of ingestion occurs from the danger of aspiration of liquid drops into the lungs, particularly from vomiting. Aspiration may result in chemical pneumonia, severe lung damage and even death.

CHRONIC EFFECTS: Liquid may be absorbed through the skin in toxic amounts if large areas of skin are repeatedly exposed.

TARGET ORGANS: Central nervous system

Medical Conditions Aggravated by Exposure: Irritation from skin exposure may aggravate existing open wounds, skin disorders, and dermatitis.

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

## Section 3: Composition/Information on Ingredients

| COMPONENT | CAS NUMBER | % by Wt. |
|---|---|---|
| Petroleum Distillate | 68476-34-6 | 25 - 35 |
| Sweetened middle petroleum distillate | 64741-86-2 | 25 - 35 |
| Polyether amine | Proprietary | 25 - 35 |
| Solvent naphtha | 64742-94-5 | < 5 |
| Naphthalene | 91-20-3 | < 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: Do NOT induce vomiting. Do not give liquids. Obtain immediate medical attention. If spontaneous vomiting occurs, lean victim forward to reduce the risk of aspiration. Monitor for breathing difficulties. Mouth can be rinsed to dissipate the taste.

*Note to Physicians*: Treat symptomatically.

## Section 5: Fire-Fighting Measures

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

Flash Point: 187℉ (TCC) Upper Explosive Limit: 7.5

Autoignition Temperature: 494℉ Lower Explosive Limit: 0.6

**Fire and Explosion Data:**

Suitable Extinguishing Media: Use extinguishers rated for Class B fires, such as dry chemical, Halon, fire fighting foam or $CO_2$.

Products of Combustion: Oxides of carbon

Explosion Hazards: Containers, when exposed to heat from fire, may build pressure 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 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.

## 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.

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: Keep away from heat, sparks and open flame. Open container in a well-ventilated area and provide adequate ventilation during use. Do not breathe vapors. Keep container closed when not in use. Wash hands after use. 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. Store in a well ventilated area. Keep out of reach of children.

Aerosol Storage Level: NA

## Section 8: Exposure Controls/Personal Protection

**Exposure Guidelines:**

| | OSHA | | ACGIH | | OTHER | | |
|---|---|---|---|---|---|---|---|
| COMPONENT | TWA | STEL | TWA | STEL | TWA | SOURCE | UNIT |
| Petroleum distillate | 5 | NE | 100 (s) | NE | NE | | $mg/m^3$ |
| Sweetened middle petroleum distillate | NE | NE | NE | NE | NE | | |
| Polyether amine | NE | NE | NE | NE | NE | | |
| Solvent naphtha | NE | NE | NE | NE | NE | | |
| Naphthalene | 10 | 15(v) | 10 | 15 | NE | | ppm |
| 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. 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, neoprene or PVC. 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: light amber
Odor: petroleum
Odor Threshold: ND
Specific Gravity: 0.87
Initial Boiling Point: 320℉
Freezing Point: ND
Vapor Pressure: ND
Vapor Density: > 1 (air = 1)
Evaporation Rate: slow
Solubility: negligible in water
Coefficient of water/oil distribution: ND
pH: NA
Volatile Organic Compounds: wt %: 47 g/L: 408.9 lbs./gal: 3.41

## Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Temperature extremes, sources of ignition

Incompatible Materials: Strong oxidizers, Viton®, Fluorel®, strong acids

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, non-combusted hydrocarbons (smoke); propylamine, polyalkylglycols, and aliphatic alcohols may also be released.

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:**

| Component | Oral LD50 (rat) | Dermal LD50 (rabbit) | Inhalation LC50 (rat) |
|---|---|---|---|
| Petroleum distillate | 9 mL/kg | > 5 mL/kg | No data |
| Sweetened middle petroleum distillate | No data | > 2000 mg/kg | 4.6 mg/L/4H |
| Polyether amine | No data | No data | No data |
| Solvent naphtha | 5 mL/kg | > 2 mL/kg | > 590 mg/$m^3$/4H |
| Naphthalene | 490 mg/kg | > 20 g/kg | No data |

**Chronic Toxicity:**

| Component | OSHA Carcinogen | IARC Carcinogen | NTP Carcinogen | Irritant | Sensitizer |
|---|---|---|---|---|---|
| Petroleum distillate | No | No | No | E (mild) / S (mild) / R (moderate) | No |
| Sweetened middle petroleum distillate | No | No | No | Unknown | Unknown |
| Polyether amine | No | No | No | Unknown | Unknown |
| Solvent naphtha | No | No | No | Unknown | Unknown |
| Naphthalene | No | Group 2B | Reasonably Anticipated to be a Carcinogen | E (moderate) / S (mild) / R (moderate) | Unknown |

E – Eye S – Skin R - Respiratory

Reproductive Toxicity: No information available
Teratogenicity: No information available
Mutagenicity: Petroleum Distillate: This material has been positive in a mutagenicity study.
Synergistic Effects: No information available

## Section 12: Ecological Information

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

Ecotoxicity: Naphthalene -- 48 Hr EC50 water flea: 2.16 mg/L
Persistence / Degradability: No information available
Bioaccumulation / Accumulation: Some ingredients of this product have the potential for Bioconcentration.
Mobility in Environment: Spills may penetrate the soil causing groundwater contamination. This material may accumulate in sediments.

## Section 13: Disposal Considerations

**Waste Classification:** This product is a RCRA hazardous waste for the toxicity characteristic: D018 (1.4 mg/L Benzene). (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.

## 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.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):
Reportable Quantities (RQ's) exist for the following ingredients: Naphthalene (100 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.**

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:
Naphthalene (0.2%)

Clean Air Act:
Section 112 Hazardous Air Pollutants (HAPs): Naphthalene

**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: Naphthalene (0.2%), Benzene (1.4 ppm)

Consumer Products VOC Regulations: This product is not regulated.

State Right to Know:

| | |
|---|---|
| New Jersey: | 91-20-3, 800967-5491P, 800967-5502P, 800967-5485P |
| Pennsylvania: | 91-20-3 |
| Massachusetts: | 91-20-3 |
| Rhode Island : | 91-20-3 |

**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: B3

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.

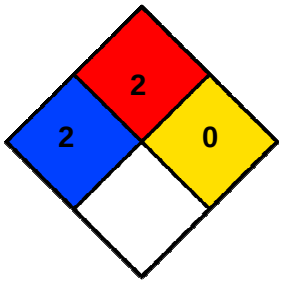
**Additional Regulatory Information**: None

## Section 16: Other Information

| HMIS® (II) | |
|---|---|
| **Health:** | **2** |
| **Flammability:** | **2** |
| **Reactivity:** | **0** |
| **PPE:** | **B** |

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

**NFPA**




Prepared By: Michelle Rudnick
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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
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