



# Material Safety Data Sheet

## Section 1: Product & Company Identification

**Product Name:** Kleen Bore Rust Guardit™ (Aerosol)

**Product Number (s):** RUS-7A (09618)

**Manufactured By:**

CRC Industries, Inc.  
885 Louis Drive  
Warminster, PA 18974  
[www.crcindustries.com](http://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: Amber liquid with wintergreen odor

### DANGER

Extremely flammable. Vapor Harmful. 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, tearing and redness.
- 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:** Ingestion may cause gastrointestinal disturbance, including irritation, nausea, vomiting and diarrhea. 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:** Prolonged or repeated exposure to vapors may lead to central nervous system effects and effects on memory. 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; possibly liver, kidney testis, hearing

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

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### Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Xylene	1330-20-7	30 - 40
Hexane isomers	various	25 - 35
Ethylbenzene	100-41-4	5 – 10
n-Hexane	110-54-3	2.1
Liquefied petroleum gas	68476-86-8	15 - 25

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### 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. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. 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. Mouth can be rinsed to dissipate the taste.
- Note to Physicians:* Inhalation of high concentrations of this material may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.

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### 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: | ND |
| Autoignition Temperature: | > 400 F     | Lower Explosive Limit: | ND |
- 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.

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## 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.

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## Section 7: Handling and Storage

Handling Procedures: 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. Provide adequate ventilation during 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 out of reach of children.

Aerosol Storage Level: III

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## Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Xylene	100	150 (v)	100	150	NE		ppm
Hexane isomers	500(v)	1000(v)	500	1000	NE		ppm
Ethylbenzene	100	125 (v)	100	125	NE		ppm
n-Hexane	500	NE	50(s)	NE	NE		ppm
Liquefied petroleum gas	1000	NE	1000	NE	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.

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**Section 9: Physical and Chemical Properties**

Physical State: liquid  
Color: Amber  
Odor: wintergreen  
Specific Gravity: 0.7132  
Initial Boiling Point: ND  
Freezing Point: ND  
Vapor Pressure: ND  
Vapor Density: > 1 (air = 1)  
Evaporation Rate: > 1 (Butyl acetate = 1)  
Solubility: negligible in water  
pH: NA  
Volatile Organic Compounds: wt %: 93.5 g/L: 666.8 lbs./gal: 5.55

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**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

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**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**

<u>Component</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
n-hexane	LD50	28710 mg/kg	Oral	Rat
n-hexane	LD50	3000 mg/kg	Dermal	Rabbit
n-hexane	LC50	48000 ppm/4H	Inhalation	Rat
Ethylbenzene	LD50	3500 mg/kg	Oral	Rat
Ethylbenzene	LC50	17.2 mg/L/4H	Inhalation	Rat

**CHRONIC EFFECTS**

**Carcinogenicity:**

	<u>Component</u>	<u>Result</u>
OSHA:	Ethylbenzene	Hazard Communication Carcinogen
IARC:	Ethylbenzene	2B – Possibly Carcinogenic
NTP:	None listed	

**Mutagenicity:** No information available

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## **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  
Ethylbenzene – 48 hr EC50 Daphnia magna: 1.8-2.4 mg/L

Persistence / Degradability: No information available

Bioaccumulation / Accumulation: No information available

Mobility in Environment: No information available

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## **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.

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## **Section 14: Transport Information**

Proper shipping description:

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

Special Provisions: None

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## **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)  
n-hexane (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 Yes

**Product Name: Kleen Bore Rust Guardit™ (Aerosol) Product Number (s): RUS-7A (09618)**

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 (2.1%), xylene (35%), ethylbenzene (9%)

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): n-hexane, 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 (9%)

State Right to Know:

New Jersey: 75-83-2, 110-54-3, 79-29-8, 68476-86-8, 1330-20-7, 100-41-4  
Pennsylvania: 107-83-5, 75-83-2, 110-54-3, 79-29-8, 68476-86-8, 1330-20-7, 100-41-4  
Massachusetts: 107-83-5, 75-83-2, 110-54-3, 79-29-8, 68476-86-8, 1330-20-7, 100-41-4  
Rhode Island : 110-54-3, 68476-86-8, 1330-20-7, 100-41-4

**Additional Regulatory Information:** None

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**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 #: 784A  
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Changes since last revision: Formula number 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 Conference of Governmental Industrial Hygienists		
NIOSH	National Institute of Occupational Safety & Health		