Material Safety Data Sheet

Section 1: Product & Company Identification

Product Name: **NAPA/CRC® Battery Terminal Protector** (Aerosol)

Product Number (s): **095046**

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) 272-4620
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Dark red viscous liquid with petroleum solvent 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 to moderate 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 mucous membranes and upper 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. May cause irritation of the gastrointestinal lining and nausea. 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. Repeated overexposure to aliphatic mineral spirits such as Stoddard solvent can cause chronic nervous system disease.
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	25 - 35
Petrolatum	8009-03-8	10 – 20
Stoddard solvent	8052-41-3	10 – 15
Heptane	142-82-5	3 – 8
Solvent-refined paraffinic distillates	64741-88-4	3 - 8
Xylene	1330-20-7	2 - 5
n-Hexane	110-54-3	< 1
Ethylbenzene	100-41-4	< 1
Liquefied petroleum gas	68476-86-8	25 - 35

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. If victim is conscious, give 2 glasses of water.

Note to Physicians: Treat symptomatically. This product is an aspiration hazard. 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: Do not use product near any potential source of ignition. Do not touch container to electrical sources as container will conduct electricity. Avoid contact with eyes and skin. Avoid breathing vapors. Wash thoroughly after handling and before contacting food.

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. Do not store near potential sources of ignition.

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
Petrolatum	NE	NE	NE	NE	NE		
Stoddard solvent	500	NE	100	NE	NE		ppm
Heptane	500	NE	400	500	NE		ppm
Solvent-refined paraffinic distillates	5*	NE	5*	10*	NE		mg/m^3
Xylene	100	NE	100	150	NE		ppm
n-Hexane	500	NE	50(s)	NE	NE		ppm
Ethylbenzene	100	NE	100	125	NE		ppm
Liquefied petroleum gas	1000	NE	1000	NE	NE		ppm
N.E. – Not Established	(c) – ceiling		(s) – skin		(v) – vacated		* - oil mist

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: dark red, viscous
Odor: petroleum solvent
Specific Gravity: 0.744
Initial Boiling Point: 140 F
Freezing Point: < -50 F
Vapor Pressure: ND
Vapor Density: > 1 (air = 1)
Evaporation Rate: >1 (Butyl acetate = 1)
Solubility: negligible in water
pH: NA
Volatile Organic Compounds: wt %: 78.3 g/L: 582.6 lbs./gal: 4.85

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, aldehydes and other products of incomplete combustion

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
Stoddard solvent	Lethal dose	> 5 gm/kg	Oral	Rat
n-Hexane	LD50	28710 mg/kg	Oral	Rat
n-Hexane	LC50	48000 ppm/4H	Inhalation	Rat
Heptane	LC50	103 gm/m^3/2H	Inhalation	Rat
Xylene	LD50	4300 mg/kg	Oral	Rat
Xylene	LC50	5000 ppm/4H	Inhalation	Rat

CHRONIC EFFECTS

Carcinogenicity:

	Component	Result
OSHA:	None listed	
IARC:	Ethylbenzene	2B – Possibly carcinogenic to humans

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 - 96 Hr LC50 Lepomis macrochirus: 4.12 mg/L Xylene – 96 Hr LC50 Oncorhynchus mykiss: 13.5 – 17.3 mg/L Ethylbenzene – 96Hr LC50 Pimephales promelas: 12.1 mg/L (flow-through)
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: Xylene (100 lbs), Ethylbenzene (1000 lbs), 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 (0.9%), Xylene (3.1%), Ethylbenzene (0.8%)

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

State Right to Know:

New Jersey:	75-83-2, 110-54-3, 79-29-8, 68476-86-8, 8052-42-3, 1330-20-7, 142-82-5, 100-41-4
Pennsylvania:	107-83-5, 75-83-2, 110-54-3, 79-29-8, 68476-86-8, 8052-42-3, 1330-20-7, 142-82-5, 100-41-4
Massachusetts:	107-83-5, 75-83-2, 110-54-3, 79-29-8, 68476-86-8, 8052-42-3, 1330-20-7, 142-82-5, 100-41-4
Rhode Island :	110-54-3, 68476-86-8, 8052-42-3, 1330-20-7, 142-82-5, 100-41-4

Additional Regulatory Information: None

Section 16: Other Information

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

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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.

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		