



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Weld Check™ Penetrant (aerosol)
Product Number (s): 03106
Product Use: Penetrant for non-destructive weld testing

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. Harmful or Fatal if Swallowed. Contents Under Pressure.
Appearance & Odor: Red liquid with solvent odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: May cause mild irritation including stinging and redness.

SKIN: Prolonged skin contact will result in defatting of the skin, leading to irritations and, in some cases, dermatitis. Repeated exposure may cause skin dryness or cracking.

INHALATION: Excessive inhalation of solvent vapors may give rise to nausea, headaches and dizziness.

INGESTION: If liquid is swallowed, the main hazard is aspiration into the lungs during swallowing or vomiting. Small amounts aspirated into the respiratory system may cause chemical pneumonia. Symptoms include sore throat, abdominal pain, nausea and vomiting.

CHRONIC EFFECTS: Unknown

TARGET ORGANS: Unknown

Medical Conditions Aggravated by Exposure: skin and respiratory conditions

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.
Hydrocarbon propellant	68512-91-4	55 – 65
Hydrotreated light distillates	64742-47-8	25 – 35
Solvent naphtha	64742-94-5	3 – 6
Ethoxylated alcohols	68439-46-3	2 – 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. Contact a physician immediately.

Note to Physicians: Treat symptomatically.

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:	> 144°F / > 62°C (TCC)	Upper Explosive Limit:	ND
Autoignition Temperature:	> 392°F / > 200°C	Lower Explosive Limit:	ND

Fire and Explosion Data:

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

Products of Combustion: Fumes, smoke and carbon monoxide

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. 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. Ensure adequate ventilation.

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

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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 source of ignition. Take precautionary measures against static discharges. Avoid contact with eyes and skin. Wash hands thoroughly after use. Avoid breathing vapors. 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: Store in a cool dry area out of direct sunlight. Aerosol cans must be maintained below 120°F / 49°C to prevent cans from rupturing.

Aerosol Storage Level: III

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

COMPONENT	OSHA		ACGIH		OTHER		UNIT
	TWA	STEL	TWA	STEL	TWA	SOURCE	
Hydrocarbon propellant	NE	NE	1000	NE	NE		ppm
Hydrotreated light distillates	NE	NE	NE	NE	1200	mfr	mg/m ³
Solvent naphtha	NE	NE	NE	NE	NE		
Ethoxylated alcohols	NE	NE	NE	NE	NE		
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated							

Controls and Protection:

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

Respiratory Protection: None required for normal work where adequate ventilation is provided. 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. 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: red

Odor: solvent

Odor Threshold: ND

Specific Gravity: 0.826

Initial Boiling Point: 356°F / 180°C

Freezing Point: ND

Vapor Pressure: ND

Vapor Density: > 1 (air = 1)

Evaporation Rate: moderate

Solubility: emulsifies with water

Coefficient of water/oil distribution: ND

pH: NA

Volatile Organic Compounds: wt %: 94.3 g/L: 778.9 lbs./gal: 6.5

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: Overheating

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 Toxicity:

<u>Component</u>	<u>Oral LD50 (rat)</u>	<u>Dermal LD50 (rabbit)</u>	<u>Inhalation LC50 (rat)</u>
Hydrocarbon propellant	No data	No data	658 mg/l/4H
Hydrotreated light distillates	> 15000 mg/kg	> 3160 mg/kg	No data
Solvent naphtha	> 2000 mg/kg	> 2000 mg/kg	> 590 mg/m ³ /4H
Ethoxylated alcohols	1378 mg/kg	> 2000 mg/kg	No data

Chronic Toxicity:

<u>Component</u>	<u>OSHA Carcinogen</u>	<u>IARC Carcinogen</u>	<u>NTP Carcinogen</u>	<u>Irritant</u>	<u>Sensitizer</u>
Hydrocarbon propellant	No	No	No	No	No
Hydrotreated light distillates	No	No	No	No	No
Solvent naphtha	No	No	No	No	Unknown
Ethoxylated alcohols	No	No	No	Unknown	Unknown

Reproductive Toxicity: No information available

Teratogenicity: No information available

Mutagenicity: No information available

Synergistic Effects: 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: Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Persistence / Degradability: No information available

Bioaccumulation / Accumulation: No information available

Mobility in Environment: Insoluble in water.

Section 13: Disposal Considerations

Waste Classification: The liquid product is not a RCRA hazardous. (See 40 CFR Part 261.20 – 261.33)
Aerosol containers should be fully emptied and de-pressurized before disposal. 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): UN1950, Aerosols, flammable, 2.1, Limited Quantity

ICAO/IATA (air): UN1950, Aerosols, flammable, 2.1, Limited Quantity

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

Special Provisions: If shipping as limited quantity by ground, note that shipping papers are not required

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: none

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:	Fire Hazard	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

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of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of
1986 and 40 CFR Part 372:
none

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): none

Occupational Safety and Health Administration:

This product is regulated by the Hazard Communications Standard.

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 (<0.06%)

Consumer Products VOC Regulations: This product is not a lubricant. It is not in a regulated category.

State Right to Know:

New Jersey: 64742-47-8

Pennsylvania: 64742-47-8

Massachusetts: 64742-47-8

Rhode Island : 64742-47-8

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.

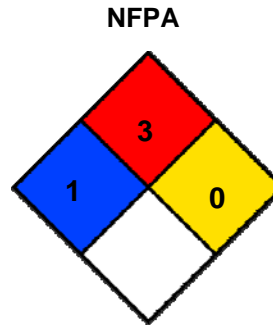
Additional Regulatory Information: None

Section 16: Other Information



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



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

Prepared By: Michelle Rudnick
 CRC #: 03106
 Revision Date: 04/27/15

Changes since last revision: Revision Date

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