

SAFETY DATA SHEET

SECTION 1 PRODUCT and COMPANY INFORMATION

TRADE NAME: **Castle[®] Rail Power[™]**

PRODUCT TYPE: Fuel System Cleaner
PRODUCT CODE: C2037

MANUFACTURED FOR: Castle Products, Inc.
424 St. Paul Street
Rochester, NY 14605
800-876-0222 • FAX 585-325-4514
EMERGENCY 585-275-3232

SECTION 2 HAZARD IDENTIFICATION



EMERGENCY OVERVIEW: DANGER: Gases Under Pressure, Flammable, Irritant
POTENTIAL HEALTH EFFECTS: Eyes: Irritating to eyes.
Skin: Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis. May cause frostbite.
Inhalation: Irritating to respiratory system. Avoid breathing vapors or mists. Symptoms of overexposure are dizziness, headache, tiredness, nausea, unconsciousness, cessation of breathing.
Ingestion: Not an expected route of exposure. Potential for aspiration if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	PEL	TLV	STEL	%
Isoalkanes, C7-C8	70024-92-9	NE	NE	NE	60-100%
4-Methyl-2-Pentanol	108-11-2	25ppm	25ppm	40ppm	3-7%
Octadecanoic Acid	112-80-1	NE	NE	NE	1-5%
1-Methoxy-2-Propanol	107-98-2	100ppm	100ppm	150ppm	1-5%
Napthalene	91-20-3	NE	10ppm	15ppm	<0.1%
Orthodichlorobenzene	95-50-1	NE	25ppm	50ppm	<0.1%
p-Dichlorobenzene	106-46-7	NE	10ppm	NE	<0.1%
Benzene	71-43-2	NE	0.5ppm	2.5ppm	<0.1%

SECTION 4 FIRST AID MEASURES

First Aid Procedures:

Eye contact: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician if irritation persists.
Skin contact: For skin contact flush with large amounts of water. Call a physician if irritation persists.
Inhalation: Immediately remove from further exposure. Give supplemental oxygen, if breathing is difficult. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.
Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by mouth to an unconscious person.

Note to physician: No information available.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT: $\geq -12^{\circ}\text{F}$ ($\geq -24^{\circ}\text{C}$) LOWER EXPLOSIVE LIMIT: ND UPPER EXPLOSIVE LIMIT: ND
EXTINGUISHING MEDIA: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂). Appropriate for surrounding fire.
UNUSUAL FIRE & EXPLOSION HAZARDS: None
SPECIAL FIRE FIGHTING PROCEDURES: As in any fire, wear pressure-demand self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate spaces before entering.

Environmental precautions: Prevent further leakage or spillage if safe to do so.

Methods for containment: Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up: Eliminate ignition sources including sources of electrical, static or frictional sparks. Wear appropriate protective equipment and clothing during clean-up.

Small Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for disposal.

Large Spills: Dike far ahead of liquid spill for later disposal. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

SECTION 7 HANDLING AND STORAGE

Handling: Product is extremely flammable. Store away from heat, sparks, and flames. Avoid breathing mist. Avoid contact with skin and eyes. Wear suitable protective clothing. Wash hands after handling.

Storage: Keep from freezing. Keep containers tightly closed. Store in a cool, dry place.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits:

4-Methyl-2-Pentanol (CAS#108-11-2):	TWA: 25 ppm;	STEL: 40 PPM;	IDLH: 400 ppm.
1-Methoxy-2-Propanol (CAS#107-98-2):	TWA: 100 ppm;	STEL: 150 ppm.	
Naphthalene (CAS# 91-20-3):	TWA: 10 ppm;	STEL: 15 ppm.	
o-Dichlorobenzene (CAS# 95-50-1):	TWA: 25 ppm;	STEL: 50 ppm.	
p-Dichlorobenzene (CAS# 106-46-7):	TWA: 10 ppm.		
Benzene (CAS# 71-43-2):	TWA: 0.5 ppm;	STEL: 2.5 ppm.	

Engineering controls: Use local exhaust ventilation.

Personal protective equipment:

Gloves: Wear impervious gloves.

Eye/Face Protection: Wear safety glasses or goggles.

Skin Protection: Wear clothing suited to the task being performed.

Respiratory Protection: Not normally required if good ventilation is maintained. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

BOILING POINT:	ND	SPECIFIC GRAVITY (H ₂ O=1):	ND
VAPOR PRESSURE:	ND	PERCENT VOLATILE BY VOL %:	ND
VAPOR DENSITY (air=1)	ND	EVAPORATION RATE (Butyl Acetate=1):	ND
SOLUBILITY IN WATER:	ND	APPEARANCE & ODOR:	Clear Liquid / Solvent
pH:	NA	VOC's:	85.97%

SECTION 10 STABILITY and REACTIVITY DATA

STABILITY: Stable under recommended storage conditions.

INCOMPATIBILITY (material to avoid): Strong oxidizing agents, strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Oxides, fumes.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Components Test Results:	Oral LD ₅₀ (rat)	Dermal LD ₅₀ (rabbit)	Inhalation LC ₅₀ (rat)
4-Methyl-2-Pentanol (CAS#108-11-2):	2590 mg/kg	2870 mg/kg	16 mg/L 4h
Octadecanoic Acid (CAS# 112-80-1)	25,000 mg/kg	NE	NE
1-Methoxy-2-Propanol (CAS#107-98-2)	5200 mg/kg	13,000 mg/kg	54.6 mg/L 4h
Naphthalene (CAS# 91-20-3):	490 mg/kg	20,000 mg/kg	340 mg/m ³ 1h
o-Dichlorobenzene (CAS# 95-50-1):	500 mg/kg	10,000 mg/kg	8.15 mg/L 4h
p-Dichlorobenzene (CAS# 106-46-7):	500 mg/kg	2000 mg/kg	5000 mg/m ³ 4h
Benzene (CAS# 71-43-2):	1800 mg/kg	NE	13,050 ppm 4h

Carcinogenicity:	ACGIH	IARC	NTP	OSHA
Naphthalene (CAS# 91-20-3):	NE	Group 2B	NE	NE
o-Dichlorobenzene (CAS# 95-50-1):	NE	Group 3	NE	NE
p-Dichlorobenzene (CAS# 106-46-7):	A3	Group 2B	(Reasonably Anticipated)	X
Benzene (CAS# 71-43-2):	A1	Group 1	Known	X

SECTION 12 ECOLOGICAL INFORMATION

The environmental impact of this product has not been fully investigated.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal instructions: Dispose according to all applicable Federal, State, and Local regulations. The material, as supplied, is a hazardous waste according to Federal Regulations.

SECTION 14 TRANSPORT INFORMATION

DOT ground, Consumer Commodity ORM-D, or Limited Quantity.

SECTION 15 REGULATORY INFORMATION

US federal regulations: All components are listed in the United States TSCA Regulations.

CERCLA (Superfund) reportable quantity: None

SARA (Superfund Amendments and Reauthorization Act of 1986):

313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Section 302 extremely hazardous substance: No

Section 311 hazardous chemical: No

Canada: This Product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

SECTION 16 OTHER INFORMATION

Further information: (HMIS[®] is a registered trade and service mark of the NPCA.)

HMIS [®] ratings	Health: 2 Flammability: 4 Physical hazard: 2
NFPA ratings	Health: 2 Flammability: 4 Instability: 0

Other: NA-Not Applicable, ND-Not Determined, NE-Not Established.

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