

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: CRYOTHERM CLEANING SOLVENT

ROCKMOUNT RESEARCH & ALLOYS, INC.
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2. HAZARDS IDENTIFICATION

CLASSIFICATION

Skin corrosion/irritation. Category 2
Serious eye damage/eye irritation. Category 2B
Skin Sensitization. Category 1B
Carcinogenicity. Category 2
Specific Target Organ Toxicity (Single Exposure), Category 3
Gas under pressure. Compressed Gas

GHS LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS

Symbols:



Signal Word: Danger

Hazard Statements:

H280 - Contains gas under pressure; may explode if heated.

H315 - Causes skin irritation.

H317 – May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

H351 – Suspected of causing cancer.

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Precautionary Statements:

- P201 – Obtain special instructions before use.**
- P202 – Do not handle until all safety precautions have been read and understood.**
- P210 – Keep away from heat/sparks/open flames/hot surfaces - No smoking.**
- P261 - Avoid breathing dust/fume/gas/mist/vapor/spray.**
- P264 – Wash skin and hair thoroughly after handling.**
- P270 – Do not eat, drink or smoke when using this product.**
- P271 - Use only outdoors or in well-ventilated area.**
- P272 – Contaminated work clothing should not be allowed out of the workplace.**
- P280 – Wear protective gloves/eye protection/face protection.**
- P281 – Use personal protective equipment as required.**
- P302+P352 – IF ON SKIN: Wash with plenty of soap and water.**
- P304 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.**
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lens. Continue rinsing.**
- P308+P313 – IF exposed or concerned: Call a POISON CENTER or get medical advice/attention.**
- P312 – Call a POISON center or get medical advice/attention if you feel unwell.**
- P333+P313 - IF skin irritation or rash occurs: Get medical advice/attention.**
- P337 - IF eye irritation persists get medical advise/attention.**
- P362+P363 – Take off contaminated clothing and wash before reuse.**
- P403 - Store in a well-ventilated place. Keep container tightly closed.**
- P405 – Store locked up.**
- P410 - Protect from sunlight.**
- P501 - Dispose of contents/container to an approved waste disposal plant.**

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Identity	CAS #	Range %	OSHA PEL TWA	ACGIH-TLV TWA	Carcinogenicity	EU Classification (67/548/EEC)	CLP/GHS Classification (1272/2008)
Carbon Dioxide	124-38-9	1-10	5000 ppm	5000 ppm	No	Not Dangerous	Not Hazardous
Tetrachloride-ethylene	127-18-4	90-100	100 ppm	25 ppm	Yes	N/A	Carc. Cat. 2
						N/A	Skin Irr. Cat 2
						N/A	Skin Sensitization Cat. 1
						N/A	Specific target organ toxicity, Cat 3

Important: This section covers the materials of which the products manufactured. The fumes and gases produced during normal use of this product are covered in section 10. The term "Hazardous" in "Hazardous Material" should be interpreted as a term required and defined in OSHA Hazard Communication Standard 29CFR 1910-1200 and it does not necessarily imply the existence of hazard. The chemicals or compounds reportable by Section 313 of SARA are marked by the symbol #.

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4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing give artificial respiration. Get medical attention immediately.

Skin: Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

Eye: Flush eyes with water for at least 15 minutes. Get medical attention.

Ingestion: Do NOT induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person.

Risk of product entering the lungs on vomiting after ingestion.

Note to physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, dry chemical, carbon dioxide, (CO₂). Cool containers / tanks with water spray.

Unsuitable Extinguishing Media: Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising From Chemical: Keep product and empty container away from heat and sources of ignition.

Explosion Data: Sensitivity to Mechanical Impact: None. **Sensitivity to Static Discharge:** Yes

Protective Equipment: As in any fire, wear self-contained breathing apparatus pressure-demand. MSHA/NIOSH (approved or equivalent) and full protective gear. Use shielding to protect fire-fighting from bursting container.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use with adequate ventilation to keep the exposure levels below the OELS.

Environment Precautions: Report spills as required by local and federal regulations.

Cleaning Measures: Contain liquid and collect with an inert, non-combustible material.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes. Avoid breathing vapors or mist. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can. Use with adequate ventilation. Keep container away from heat, flames, and all other sources of ignition. Keep can away from all sources of electricity such as electric motors and batteries. Do not spray on hot surfaces.

Conditions for Safe Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from oxidizers and acids. **Aerosol Level:** 1

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls: Ventilation systems. Use adequate ventilation to keep the exposure levels below the OELS.

Personal protection: Safety glasses with side-shields. Chemical resistant apron. Protective gloves.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance: Clear
Color: Clear
Odor: Solvent
Odor Threshold: Not Available
pH Value: Not Available
Melting Point/Melting Range: Not Available
Freezing Point: Not Available
Boiling Point/Boiling Range: Not Available
Flash point: Not Available
Evaporation Rate: Not Available
Self-in flammability: Not Available
Explosion limits: Not Available
Vapor pressure: Not Available
Vapor density: Not Available
Density at 20°C: Not Available
Specific Gravity: 1.624
Solubility: Insoluble in water.
Partition coefficient: Not Available
Auto-ignition temperature: Not Available
Decomposition temperature: Not Available
Other Information: No available data.

10. STABILITY AND REACTIVITY

Chemical Stability: This product is stable under normal conditions.
Hazardous Reactions: None under normal processing
Conditions to Avoid: Extremes of temperature and direct sunlight
Incompatible Materials: Store away from strong oxidizers and acids.
Hazardous Decomposition Products: Carbon oxides. Fumes. Hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure: Product does not present an acute toxicity hazard based on known information.
Inhalation: Exposure to high vapor concentrations may cause nervous systems effect such as headache, nausea, and dizziness.
Eye contact: Irritation to eyes.
Skin contact: Irritating to skin. May cause an allergic skin reaction.
Ingestion: Not acutely toxic. Aspiration into the lungs during swallowing may cause serious lung damage which may be fatal.

LD/LC50 Values that are relevant for classification

Tetrachloroethylene, 127-18-4

Oral	LD50	=2629 mg/kg (rat)
Inhalation	LC50	= 27.8 mg/L/. (rat) 4 h

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Chronic Effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting. Irritating to skin. Irritating to eyes. May cause skin sensitization by causing an allergic skin reaction. No information available. The table below indicates whether each agency has evaluated a listed ingredient as a carcinogen.

ACGIH: (American Conference of Government Industrial Hygienists) A3- Animal Carcinogen.

IARC: (International Agency for Research on Cancer) Group A2- Probably Carcinogenic to Humans.

NTP: (National Toxicity Program) Reasonably Anticipated to be a Human Carcinogen.

OSHA: (Occupational Safety & Health Administration) X-Present

12. ECOLOGICAL INFORMATION

TOXICITY TO ALGAE: 500 mg/L EC50 Pseudokirchneriella subcapitata 96h.

TOXICITY TO FISH: 11.0-15.0 mg/L LC50 Lepomis macrochirus 96h static 12.4 - 14.4 mg/L, LC50 Pimephales promelas 96h flow-through 4.73 - 5.27 mg/L, LC 50 Oncorhynchus mykiss 96h flow-through 8.6 - 13.5 mg/L, LC50 Pimephales promelas 96h static.

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES: 6.1 - 9.0 mg/L EC50 Daphnia magna 48h Static.

Tetrachloroethylene, 127-18-4: log Pow 2.88

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with federal, state, and local regulations.

Contaminated Packaging: Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT Ground: CONSUMER COMMODITY ORM-D or LIMITED QUANTITY.

IATA: UN1950, AEROSOLS, NON-FLAMMABLE, CONTAINING SUBSTANCES IN DIVISION 6.1 , PACKAGING GROUP III, 2.2 (6.1), LTD. QTY.

IMDG: UN1950, AEROSOLS, 2.2 (6.1), ltd qty.

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15. REGULATORY INFORMATION

SARA 313

Section 313 Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

SARA 311/312 HAZARD CATEGORIES

Acute Health Hazard - Yes

Chronic Health Hazard - Yes

Fire Hazard - No

Sudden Release of Pressure Hazard - Yes

Reactive Hazard - No

CLEAN WATER ACT

This product contains substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

CALIFORNIA PROPOSITION 65

This product contains the following Proposition 65 chemical.

Ingredient Name	SARA 313 Threshold Values %
Tetrachloroethylene - 127-18-4	0.1

16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 0 Instability 0 Physical and chemical hazards -

HMIS Health Hazard 2 Flammability 0 Physical Hazard 1 Personal protection B

The information in this document is believed to be correct as of the date issued. However, no warranty is expressed to be implied regarding the accuracy or completeness of this information. This information and product are furnished on the condition that the person receiving them shall make his own determinations as to the suitability of the product for his particular purpose and on the condition that he assumes the risk of his use thereof.

This Safety Data Sheet complies with the EC directives 91/155/EEC and 93/112/EEC, including modifications 2001/58/EC. Complies with OSHA Communication Standard 29 CFR 1910.1200 and Superfund Amendments and Reauthorization Act (SARA) of 1986 Public Law 99-499.

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