

Canadian Krown Dealers Inc.  
35 Magnum Dr.  
Schomberg, Ontario, L0G - 1T0  
Canada  
905-939-8750 / 1-800-267-5744

**PRODUCT: Krown Fast-Acting Penetrant (Krown The Solution) - 400g**

**CODE: KR-002010**

### SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Item Numbers..... KR-002010  
Product Identity..... Krown Fast-Acting Penetrant (Krown The Solution) - 400g  
Manufacturer..... Empack Spraytech Inc.  
98 Walker Drive  
Brampton  
Ontario  
Canada  
L6T 4H6  
905-792-6571  
24 hour emergency telephone number..... CANUTEC: (613)-996-6666 collect.  
Recommended Use..... Lubricant, Penetrant, Rust Inhibitor.  
Chemical Family..... Mixture.

### SECTION 02: HAZARDS IDENTIFICATION



Hazard Classification:  
Physical Hazards..... Flammable Aerosols - Category 1. Gases Under Pressure - Compressed gas.  
Health Hazards..... Not Classified.  
Environmental Hazards..... Not Classified.  
Label Elements:  
Signal Word..... DANGER.  
Hazard Statement..... Extremely flammable aerosol. Pressurized container: may burst if heated.  
Precautionary Statements:  
Prevention..... Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.  
Response..... None.  
Storage..... Protect from sunlight. Do not expose to temperatures exceeding 50°C /122°F. Store in a well-ventilated place.  
Disposal..... Dispose of contents/ container in accordance with local/regional/national/international regulations.  
Hazard(s) not otherwise classified (HNOC)

### SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
Isobutane	75-28-5	10-30
Propane	74-98-6	7-13

### SECTION 04: FIRST AID MEASURES

Inhalation..... If inhaled, remove to fresh air. If not breathing, give artificial respiration and obtain immediate medical assistance.  
Skin Contact..... Immediately flush the contaminated skin with soap and water. If this chemical penetrates clothing, immediately remove the clothing and flush the skin with water. If irritation persists after washing, get medical attention.  
Eye Contact..... Check for and remove contact lenses. Immediately flush eyes with water for a minimum of 15 minutes keeping eyelids open. Consult a doctor if any irritation occurs.  
Ingestion..... If swallowed, call a Poison Control Center or doctor immediately. Do not induce vomiting.  
Most important symptoms/effects, acute and delayed..... N/A.  
Indication of immediate medical attention and special treatment needed..... Provide general supportive measures and treat symptomatically. In case of shortness of breath give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

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Suitable Extinguishing Media.....	Dry chemical powder. Carbon dioxide. Foam, water spray or fog.
Unsuitable Extinguishing Media.....	Do not use water jet as an extinguisher, as this will spread the fire.
Specific Hazards Arising from the Chemical.....	In case of fire, the following can be released: Carbon Oxides (CO, CO <sub>2</sub> ), Other unidentified Organic Compounds.
Special Protective Equipment and ..... Precautions for Firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with water to prevent vapor pressure build up. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Remove undamaged containers from immediate hazard area if it is safe to do.
General Fire Hazards.....	Flammable.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Personal Precautions, Protective Equipment and Emergency Procedures	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid walking through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 08).
Methods and Materials for Containment and Cleaning Up	Wash with plenty of water.
Environmental Precautions.....	Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

**SECTION 07: HANDLING AND STORAGE**

Precautions for Safe Handling.....	Avoid breathing vapours or mists. Never pierce, drill, grind, cut, saw or weld any empty container. Do not eat or drink while working. See Section 08 for Protective Personal Equipments.
Conditions for Safe Storage including any ... Incompatibilities	Keep container tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, and flame. Do not store in direct sunlight.

**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL NIOSH
Isobutane	800 ppm	1000 ppm	800 ppm	Not available	800 ppm (TWA)
Propane	2,500 ppm	Not available	1,000 ppm	Not available	1,000 ppm
Appropriate Engineering Controls.....	Local exhaust ventilation required to maintain the point of use below the Threshold Limit Value if unprotected personnel are involved. Ensure that eyewash stations and safety showers are available.				
Individual Protection Measures:					
Eye/Face Protection.....	Chemical splash goggles are recommended.				
Skin Protection.....	Use appropriate protective clothing to avoid skin contact if required.				
Respiratory Protection					
Thermal Hazards.....	None Known.				
General Hygiene Considerations.....	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment prior to use.				

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Form.....	Aerosol.
Physical Appearance.....	Thin Blue Liquid.
Odor.....	N/A.
Odor Threshold (ppm).....	N/A.
Specific Gravity .....	0.770-0.800.
Vapour Density (Air=1).....	Heavier than air.
Aerosol Vapour Pressure (psig, 21°C).....	70-90 .
pH.....	N/A.
Boiling Point liquid (°C).....	-11.72°C (10.9°F). (For propellant).
Melting/Freezing Point (°C).....	N/A.
Flash Point (°C), Method.....	Closed cup: -83.15 °C (-117.7 °F). (For propellant).
Flashback.....	N/A.
Evaporation Rate (n-Butyl Acetate = 1).....	N/A.
VOC Content.....	N/A.
Solubility in water.....	N/A.
Auto Ignition Temperature (°C).....	460°C (860°F). (For propellant).
Lower Flammable Limit (% Vol).....	1.8. (For propellant).

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Upper Flammable Limit (% Vol)..... 9.5. (For propellant).  
 Coefficient of Water/Oil Distribution..... N/A.  
 Viscosity..... N/A.

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity ..... No hazardous reactions.  
 Chemical Stability..... Stable under the recommended storage and handling conditions.  
 Possibility of Hazardous Reactions..... It may catch fire on contact with oxidizing mineral acids.  
 Conditions to Avoid..... Heat, flames, sparks.  
 Incompatible Materials..... None known.  
 Hazardous Decomposition Products..... In combustion emits toxic fumes.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Isobutane	658 mg/L (4hrs,Rat)	Not available
Propane	>800,000 ppm (15 min,Rat)	Not available
Information on Likely Routes of Exposure:		
Routes of entry - Inhalation.....	Yes.	
Routes of entry - Skin & Eye.....	No.	
Routes of entry - Ingestion.....	No.	
Routes of entry - Skin Absorption.....	No.	
Symptoms Related to the Physical, Chemical and Toxicological Characteristics		
Acute Toxicity.....	N/A.	
Skin Corrosion/Irritation.....	Causes mild skin irritation. Prolonged contact may be more irritating.	
Serious Eye Damage/Eye Irritation.....	May irritate eyes.	
Respiratory or Skin Sensitization.....	N/A.	
Germ Cell Mutagenicity.....	No data available to indicate product or any components present at greater than 0.1% are mutagenic.	
Carcinogenicity.....	N/A.	
Reproductive Toxicity.....	Based on available data, the classification criteria are not met.	
STOT - Single Exposure.....	No data available .	
STOT - Repeated Exposure.....	No data available .	
Aspiration Hazard.....	Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.	
Chronic Effects.....	No known adverse effects .	

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity..... May be dangerous for the environment. No data is available on the product itself. Should not be released into the environment.  
 Persistence and degradability ..... The product itself has not been tested.  
 Bioaccumulation Potential..... The product itself has not been tested.  
 Mobility in Soil..... The product itself has not been tested.  
 Other Adverse Effects..... None Known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Appropriate Disposal Methods..... This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Spilled material and water rinses are classified as chemical waste and must be disposed of in accordance with current local, provincial and federal regulations.

**SECTION 14: TRANSPORT INFORMATION**

TDG (Canada- Road)..... AEROSOLS, Class 2.1, UN1950.  
 DOT (US-Road)..... AEROSOLS, Class 2.1, UN1950, LTD QTY, Consumer commodity ORM-D.  
 IMDG (International- Marine)..... AEROSOLS, Class 2.1, UN1950.  
 IATA (International- Air)..... AEROSOLS, Class 2.1, UN1950, LTD QTY.

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**SECTION 15: REGULATORY INFORMATION**

Canada Regulations:..... WHMIS Classification. A: Compressed gas. B5: Flammable Aerosol.  
Canadian Environmental Protection Act ..... All ingredients listed appear on the Domestic Substances List (DSL).  
(CEPA)  
US Regulations..... Environmental Protection Act: Constituents of this product are included on the TSCA  
inventory. This product is considered hazardous under the OSHA Hazard Communication  
Standard.

**SECTION 16: OTHER INFORMATION**

Disclaimer..... The information contained herein is based on data considered accurate. No guarantee or  
warranty is expressed or implied regarding the accuracy of this data or the results obtained  
from the use thereof. The SDS provider assumes no responsibility for personal injury or  
property damage to vendees or users or third parties, caused by the material. Such  
vendees or users assume all risks with the use of the material. This product has been  
classified in accordance with the hazard criteria of the CPR and the SDS contains all the  
information required by the CPR. THIS SDS IS VALID FOR THREE YEARS.

Abbreviations..... ACGIH: American Conference of Governmental Industrial Hygienists; CAS: Chemical  
Abstract Service; NIOSH: National Institute for Occupational Safety and Health, OSHA:  
Occupational Safety and Health Administration- USA; TSCA: Toxic Substances Control Act  
1976-USA; PEL: Permissible Exposure Limit; REL: Recommended Exposure Limit; TLV:  
Threshold Limit Value; VOC: Volatile Organic Content; WHMIS: Workplace Hazardous  
Materials Information System STOT: Specific Target Organ Toxicity.

Prepared by ..... Regulatory Affairs  
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