

7. HANDLING AND STORAGE

Handling

Use in well ventilated area. Use local exhaust ventilation. Avoid inhaling vapor. Avoid contact with eyes, skin and clothing.

Storage

Store away from sources of heat or ignition. Storage area should be: - away from incompatible materials - cool - dry - well ventilated
Do not store in: - aluminium and its alloys - copper and its alloys - iron

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Control Measures

If engineering controls and work practices are not effective in preventing or controlling exposure, then suitable personal protective equipment, which is known to perform satisfactorily, should be used. Respiratory protection if there is a risk of uncontrolled exposure to vapor. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

Respiratory Protection

Chemical resistant gloves
Chemical goggles.
Normal work wear.

Hand Protection Eye Protection Body Protection

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State

Viscous liquid

Color

Off-white

Odor

Faint Hydrocarbon

pH

Not applicable.

Specific Gravity

1.0

Boiling Range/Point (°C/F)

175/347

Flash Point (PMCC) (°C/F)

>95/>203

Explosion Limits (%)

None.

Vapor Pressure

Negligible vapor pressure at ambient conditions.

Density

8.5 lb/gal

Solubility in Water

Appreciable

Vapor Density (Air = 1)

Not determined.

Evaporation Rate

(referenced as n-butyl acetate = 1)
<1

VOC (g/l)

Data not available.

10. STABILITY AND REACTIVITY

Stability
Conditions to Avoid
Materials to Avoid

Stable under normal conditions.
None known.
- Strong oxidizers - reacts slowly with iron, copper and aluminum.
Will not occur.
- carbon monoxide - ammonia - oxides of nitrogen

Hazardous Polymerization
Hazardous Decomposition
Products

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50 (rat) 4.5-25 ml/kg.
Inhalation LC50 (rat)
15000 ppm.
No relevant studies identified.

Chronic
Toxicity/Carcinogenicity
Genotoxicity
Reproductive/Developmental
Toxicity

No relevant studies identified.
No relevant studies identified.

12. ECOLOGICAL INFORMATION

Mobility
Persistence/Degradability
Bio-accumulation
Ecotoxicity

No relevant studies identified.
No relevant studies identified.
No relevant studies identified.
No relevant studies identified.

13. DISPOSAL

Product Disposal

Dispose of in accordance with all applicable local and national regulations.
Empty containers may contain hazardous residues. Dispose of containers with care.

Container Disposal

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data

UN Proper Shipping Name
UN Class
UN Number

Proper Shipping Name: Not
Regulated
Not Regulated
None.
None.

15. REGULATORY INFORMATION

TSCA Listed
MA Right To Know Law
PA Right To Know Law
NJ Right to Know Law
California Proposition 65

Yes.
Not listed.
Not listed.
Not listed.
This product contains the

SARA Title III Sect. 302
(EHS)
SARA Title III Sect. 311/312
Categorization
SARA Title III Sect. 313

following chemicals that have
been found by the State of
California to cause cancer, birth
defects or other reproductive
harm:

- Acrylamide (trace)
Not listed.

Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard
This product does not contain a
chemical which is listed in Section
313 at or above de minimis
concentrations.

16.

OTHER INFORMATION

NFPA Ratings

NFPA Code for Health
2

NFPA Code for
Flammability 1

NFPA Code for
Reactivity 0

Abbreviations

® Registered trademark
of Baroid Technology
(TM) Trademark of
Halliburton Energy
Services

N/A: Denotes no
applicable information
found or available

CAS#: Chemical
Abstracts Service
Number

ACGIH: American
Conference of
Governmental Industrial
Hygienists

OSHA: Occupational
Safety and Health
Administration

TLV: Threshold Limit
Value

PEL: Permissible
Exposure Limit

STEL: Short Term
Exposure Limit

NTP: National
Toxicology Program

IARC: International
Agency for Research on
Cancer

R: Risk

S: Safety

LC50: Lethal

Concentration 50%

LD50: Lethal Dose 50%

Oct-23-2000 03:10pm From:HALLIBURTON

403-263-9366

T-955 P.007/010 F-178

Prepared By:

BOD: Biological
Oxygen Demand
KoC: Soil Organic
Carbon Partition
Coefficient
Environmental Services

All information recommendations and suggestions herein concerning our product are based on tests and data believed to be reliable, however, it is the user's responsibility to determine the safety, toxicity and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantees, expressed or implied, is made by Baroid as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Baroid assume any liability arising from the use, by others, of the product referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.



CANADIAN Material Safety Data Sheet

LIQUID DRISPAC® POLYMER

DRILLING SPECIALTIES COMPANY
Bartlesville, Oklahoma 74004

PHONE NUMBERS

Emergency: (918) 661-8118
Technical Services: (800) 221-1956
For Additional MSDSs: (918) 661-7354

A. Product Identification

Synonyms: Drilling mud additive
Chemical Name: Mixture
Chemical Family: Mixture
Chemical Formula: Mixture
CAS Reg. No.: Mixture
Product No.: Not Established

Canadian Inventory Listing Status: DSL

All ingredients are listed in the Domestic Substances List (DSL) Impurities are exempt in accordance with Section 3 of the Canadian of Environmental Protection Act (CEPA).

B. Hazardous Components

Ingredients	CAS Number	x By Wt.	OSHA PEL	ACGIH TLV
Petroleum distillates	64742-47-8	55	XX	XX

-XX See Section F, for Recommended Exposure Limits.

NA - Not Applicable NE - Not Established

Liquid Drispac® Polymer (CA251230)

Page 1 of 5

C. Personal Protection Information

Ventilation: Use adequate ventilation to control exposures below recommended exposure limits.

Respiratory Protection: None generally required unless needed to prevent respiratory irritation. Use NIOSH approved air purifying respirator with organic vapor cartridge. In case of spill or leak resulting in unknown concentration, use NIOSH approved supplied air respirator.

Eye Protection: Use safety glasses with side shields. Use chemical goggles if splashes could occur.

Skin Protection: Use rubber or neoprene gloves.

NOTE: Personal protection information shown in Section C is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

D. Handling and Storage Precautions

Wash thoroughly after handling. Avoid contact with eyes, skin or clothing. Avoid breathing vapors, mist, fume or dust. Wear protective equipment and/or garments described in Material Safety Data Sheet if exposure conditions warrant. Launder contaminated clothing before reuse. Use with adequate ventilation.

Keep away from heat, sparks, and flame. Store in well-ventilated area. Bond and ground during liquid transfer. Store in closed container.

E. Reactivity Data

Stability: Stable

Conditions to Avoid: Not Applicable

Incompatibility (Materials to Avoid): Strong oxidizing materials

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: Not Applicable

Hazardous Decomposition Products: Carbon oxides formed when burned.

F. Health Hazard Data

Recommended Exposure Limits:

The Company recommends an exposure limit of 400 ppm (total hydrocarbons in air).

NA - Not Applicable NE - Not Established

Acute Effects of Overexposure

Eye: May cause mild irritation.

Skin: Repeated or prolonged contact may result in defatting of skin, irritation and dermatitis.

Inhalation: High vapor concentrations may cause headache, dizziness, nausea, and unconsciousness. May cause mild mucous membrane irritation of nose and throat.

Ingestion: Low toxicity; may produce diarrhea.

Subchronic and Chronic Effects of Overexposure:

A component has caused kidney injury in male rats only. No comparable health hazard for kidney injury is known to occur in humans.

Other Health Effects:

No known applicable information.

Health Hazard Categories:

CLASS D: POISONOUS AND INFECTIOUS MATERIAL CATEGORIES

1. Materials Causing Immediate and Serious Toxic Effects

A. Very Toxic _____

B. Toxic _____

2. Materials Causing Other Toxic Effects

A. Very Toxic

- 1. Chronic Toxic Effects _____
- 2. Teratogen/Embryo Toxin _____
- 3. Carcinogen _____
- 4. Reproductive Toxin _____
- 5. Respiratory Tract Sensitizer _____
- 6. Mutagen _____

B. Toxic

- 1. Chronic Toxic Effects _____
- 2. Skin or Eye Irritant _____
- 3. Skin Sensitizer _____
- 4. Mutagen _____

Specify: Does not meet the criteria for any of the above categories.

Other: _____

NA - Not Applicable NE - Not Established

First Aid and Emergency Procedures:

- Eye:** Flush eyes with running water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.
- Skin:** Wash with soap and water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.
- Inhalation:** Remove from exposure. If breathing is difficult, give oxygen. If breathing ceases, administer artificial respiration followed by oxygen. Seek immediate medical attention.
- Ingestion:** Give two glasses of water and induce vomiting, only if subject is conscious. Seek medical attention.

G. Physical Data

Appearance: Off-white Viscous Liquid
Odor: Mild Odor
Boiling Point: 424-460F (217-237C)
Vapor Pressure: Not Established
Vapor Density (Air = 1): Not Established
Solubility in Water: Not Established
Specific Gravity (P20 = 1): 0.57
Percent Volatile by Toluene: Not Established
Evaporation Rate (Butyl Acetate = 1): <1
Viscosity: Not Established

H. Fire and Explosion Data

Flash Point (Method Used): 185F (85C) (TEC, ASTM D56)
Flammable Limits (% by Volume in Air): LEL - Not Established
UEL - Not Established

Fire Extinguishing Media: Dry chemical, foam or carbon dioxide (CO2)

Special Fire Fighting Procedures: Evacuate area of all unnecessary personnel. Shut off source, if possible. Wear protective equipment and/or garments described in Section C if conditions warrant. Water fog or spray may be used to cool exposed equipment and containers. Use of water may create slick surfaces.

Fire and Explosion Hazards: Carbon oxides formed when burned.

I. Spill, Leak and Disposal Procedures**Precautions Required if Material is Released or Spilled:**

Evacuate area of all unnecessary personnel. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Shut off source, if possible and contain spill. Protect from ignition. Keep out of water sources and sewers. Absorb in dry, inert material (sand, clay, sawdust, etc.) and transfer to disposal container using non-sparking equipment.

Waste Disposal (Insure Conformity with all Applicable Disposal Regulations): Incinerate or place in permitted waste management facility.

NA - Not Applicable NE - Not Established

J. DOT Transportation

Shipping Name: Petroleum products, n.o.s.
Hazard Class: Combustible liquid
ID Number: UN 1268
Packing Group: III
Marking: 1268 (Bulk packages only)
Label: None
Placard: Combustible/1268
Hazardous Substance/RQ: Not applicable
Shipping Description: Petroleum products, n.o.s., Combustible liquid,
UN 1268, PG III
Packaging References: 49 CFR 173.150, 173.203, 173.241

Note: This product is not regulated by DOT when shipped domestically by highway or rail in non-bulk packagings.

K. RCRA Classification - Unadulterated Product as a Waste

Prior to disposal, consult your environmental contact to determine if TCLF (Toxicity Characteristic Leaching Procedure, EPA Test Method 1311) is required. Reference 49 CFR Part 261.

L. Protection Required for Work on Contaminated Equipment

Contact immediate supervisor for specific instructions before work is initiated. Wear protective equipment and/or garments described in Section C if exposure conditions warrant.

M. Hazard Classification

Class B-Flammable and Combustible Material



NA - Not Applicable NE - Not Established

Liquid Drispac® Polymer (CA251230)

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N. Additional Comments

SARA 313

As of the preparation date, this product did not contain a chemical or chemicals 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.

NFPA 704 Hazard Codes - - - - - Signals

Health	: 1	Least	- 0
Flammability	: 2	Slight	- 1
Reactivity	: 0	Moderate	- 2
Special Haz.	-	High	- 3
		Extreme	- 4

REFERENCES

ACGIH	American Conference of Government Industrial Hygienists
ASTM	American Society of Testing and Materials
CFR	Code of Federal Regulations, U.S.
DOT	Department of Transportation, U.S.
EPA	Environmental Protection Agency, U.S.
IARC	International Agency for Research on Cancer
MSHA	Mine Safety and Health Administration, U.S.
NFPA	National Fire Protection Association
NIOSH	National Institute of Occupational Safety and Health, U.S.
NTP	National Toxicology Program, U.S.
OSHA	Occupational Safety and Health Administration, U.S.
RCRA	Resource Conservation and Recovery Act, U.S.
SARA	Superfund Amendments and Reauthorization Act, U.S.
TSCA	Toxic Substances Control Act, U.S.

NA - Not Applicable NE - Not Established

Liquid Drispac® Polymer (CA251230)

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Jan-25-01 11:55am From-THIESSEN TEAM

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T-213 P.02/10 F-301

LA2876

MATERIAL SAFETY DATA SHEET

PAGE 1

VAN WATERS & ROGERS LTD. 9900 VAN HORNE WAY RICHMOND, B.C. V6X 1W5

SALES ORDER: 17215500

VAN WATERS & ROGERS PRODUCT: 62186SKT

MSDS NUMBER: LA2876

VERSION: 2

DATE PRINTED: 24/02/00

THIESSEN EQUIPMENT LTD.
1638 ALBERTA AVENUE
SASKATOON SASK. S7K 1R6

WHMIS CODES:

D.2B

For Emergency Assistance
Involving Chemicals Call
CHEMTREC (800) 424-9300

WHMIS (Classification)
WHMIS CLASS D-2B: Material causing
other toxic effects (TOXIC).

Section I. Chemical Product Identification

Product Name Soda Ash 5BK Light

Code LA2876

CAS# Not available.

DSL On the DSL list.

Not available.

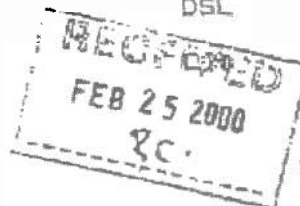
Synonym Sodium Carbonate

Chemical Name Sodium Carbonate

Chemical Family Not available.

Chemical Formula Not available.

Material Use: Soda salts; glass; soap, cleaners
and water softeners; pulp and paper;
photographical agent.



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MATERIAL SAFETY DATA SHEET

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Section II. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	
			TLV/PEL	LC50/LD50
Sodium carbonate	000497198	60-100	Not available.	DRAL (LD50): Acute: 4090 mg/kg (Rat). 2090 mg/kg (Mouse).

Section III. Hazards Identification

Potential Acute Health Effects	Very hazardous in case of eye contact (irritant). Hazardous in case of skin contact (irritant), of ingestion, or inhalation. Inflammation of the eye is characterized by redness, watering, and itching.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. There is no known effect from chronic exposure to this product. Repeated or prolonged exposure is not known to aggravate medical condition.

Section IV. First Aid Measures

Eye Contact	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. COLD water may be used. DO NOT use an eye ointment. Seek medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Hazardous Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

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MATERIAL SAFETY DATA SHEET

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Inhalation Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.

Hazardous Inhalation No additional information.

Ingestion Have conscious person drink several glasses of water. DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Hazardous Ingestion No additional information.

Section V, Fire and Explosion Data

The Product is: May be combustible at high temperature.

Auto-Ignition Temperature Not available.

Flash Points Not available.

Flammable Limits Not available.

Products of Combustion Not available.

Fire Hazards in Presence of Various Substances No specific information is available in our database regarding the flammability of this product in presence of various materials.

Explosion Hazards in Presence of Various Substances Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.

Fire Fighting Media and Instructions SMALL FIRE: Use DRY chemicals, CO2, water spray or foam.
LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

LA2876

MATERIAL SAFETY DATA SHEET

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Special Remarks No additional remark.
on
Fire Hazards

Special Remarks No additional remark.
on Explosion
Hazards

****Section VI. Accidental Release Measures****

Small Spill Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill Our database contains no additional information in case of a spill and/or a leak of the product. Use a shovel to put the material into a convenient waste disposal container. Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

****Section VII. Handling and Storage****

Precautions Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. DO NOT breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Storage Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool and well-ventilated area. Combustible materials should be stored away from extreme heat and away from strong oxidizing agents.

****Section VIII. Exposure Controls/Personal Protection****

Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate

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MATERIAL SAFETY DATA SHEET

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dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection Splash goggles. Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits Not available.

Section IX. Physical and Chemical Properties

Physical State and Appearance	Solid. (Powdered solid.)	Odor Odorless.
Molecular Weight	105.99 g/mole	Taste Not available.
pH (1% soln/water)	11.3 (Basic.)	Color White.
Boiling Point	Not available.	
Melting Point	854.C (1569.2.F)	
Critical Temperature	Not available.	
Specific Gravity	2.533 (Water = 1)	
Vapor Pressure	Not available.	
Vapor Density	Not available.	
Volatility	Not available.	
Odor Threshold	Not available.	
Evaporation rate	Not available.	
Viscosity	Not available.	
Water/Oil Dist.	Not available.	

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MATERIAL SAFETY DATA SHEET

PAGE 6

Coeff.

Ionicity (in Water) Not available

Dispersion Properties See solubility in water.

Solubility Partially soluble in cold water.

Section X. Stability and Reactivity Data

Stability The product is stable.

Instability Temperature Not available.

Conditions of Instability Simultaneous exposure to soda ash and lime dusts (CaO). In the presence of moisture (ie. perspiration) the two materials combine to form corrosive caustic soda (NaOH) which may cause burns. Contact with acids will release carbon dioxide gas.

Incompatibility with various substances Can react violently with red hot aluminum metal; fluorine gas; lithium; and 2,4,6- trinitrotoluene.

Corrosivity No specific information is available in our database regarding the corrosivity of this product in presence of various materials.

Special Remarks on Reactivity Hazardous Decomposition Products: Heating soda ash liberates CO₂.

Special Remarks on Corrosivity No additional remark.

Hazardous Polymerization No.

Section XI. Toxicological Information

Routes of Entry Eye contact. Inhalation. Ingestion.

Toxicity to Animals LD50: Not available.
LC50: Not available.

LA2976

MATERIAL SAFETY DATA SHEET

PAGE 2

Chronic Effects on Humans CARCINOGENIC EFFECTS: Not available.
MUTAGENIC EFFECTS: Not available.
TERATOGENIC EFFECTS: Not available.
DEVELOPMENTAL TOXICITY: Not available.
There is no known effect from chronic exposure to this product. Repeated or prolonged exposure is not known to aggravate medical condition.

Other Toxic Effects on Humans Very hazardous in case of eye contact (irritant).
Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Inflammation of the eye is characterized by redness, watering, and itching.

Special Remarks on Toxicity to Animals No additional remark.

Special Remarks on Chronic Effects on Humans Excessive contact may produce "sore ulcers" on hands and perforation of the nasal septum. Sensitivity reactions may occur from prolonged and repeated exposure.

Special Remarks on Other Toxic Effects on Humans No additional remark.

****Section XII. Ecological Information****

Ecotoxicity Not available.

BOD5 and COD Not available.

Products of Biodegradation Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation Not available.

Special Remarks on the Products of Biodegradation No additional remark.

****Section XIII. Disposal Considerations****

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MATERIAL SAFETY DATA SHEET

PAGE 8

Waste Disposal Recycle, if possible. Consult your local or regional authorities.

****Section XIV. Transport Information****

TDG Classification Not controlled under TDG (Canada).

Shipping name Not applicable.

PIN Not applicable.

Packing Group Not applicable.

Special Provisions for Transport No additional remark.

****Section XV. Other Regulatory Information****

Other Regulations OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

****Section XVI. Other Information****

References Not available.

Other Special Considerations No additional remark.

Verified by Hardev Bendick.

Validated by Hardev Bendick on 1/12/1999.

Information EHS Data-base
Contact Vancouver, B.C.
(604) 273-1441

FOR UPDATED COPIES OF AN MSDS, PLEASE CONTACT YOUR LOCAL VAN WATERS & ROGERS LTD. BRANCH.

Notice to Reader

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MATERIAL SAFETY DATA SHEET

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