

MATERIAL SAFETY DATA SHEET

State Chemical Division – State Industrial Products 3100 Hamilton Avenue, Cleveland, OH 44114 (216) 861-7114
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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: **DRI - NC24** Hour CHEMTREC Number: 800-424-9300 Product Description: An all-purpose penetrant with no chlorinated solvents. MSDS Number: 103957

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Ingredients</u>	<u>CAS Number</u>	<u>Weight</u>	<u>ACGIH</u>	<u>OSHA</u>
Propane	74-98-6	< 12%	2500 ppm	1000 ppm
Butane	106-97-8	< 7.0%	800 ppm	800 ppm
Mineral Spirits	64742-88-7	< 35%	100 ppm	100 ppm
Heavy Aliphatic Solvent	64742-47-8	< 37%	NA	NA
Petroleum Lubricating Oil	64742-65-0	< 15%	5 mg/m3	5 mg/m3
Calcium Dinonylnaphthalene Sulfonate	57855-77-3	< 3.0%	NA	NA

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Extremely flammable. Contents under pressure. Do not puncture, incinerate or expose to temperature above 120°F(49°C). Eye, skin and respiratory irritant.

POTENTIAL HEALTH EFFECTS Routes of Exposure: Exposure may be by inhalation and/or skin or eye contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation and personal protective equipment. Eye Contact: May cause eye irritation. Redness and itching or burning sensation may indicate overexposure. Skin Contact: May cause skin irritation. Redness and itching or burning sensation may indicate overexposure. Ingestion: Harmful or fatal if swallowed. May cause vomiting. Inhalation: May cause irritation of the respiratory tract. Headache, dizziness, nausea and loss of coordination are indications of excessive exposure to vapors or spray mists. General: Deliberately concentrating and inhaling the vapor of the contents may be harmful or fatal. May aggravate existing lung and skin conditions. Prolonged exposure to solvent ingredients may cause adverse effects to the liver, urinary and reproductive systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

4. FIRST AID MEASURES

Eye Contact: Promptly flush with a large amount of water for at least 15 minutes. If irritation persists, seek medical attention. Skin Contact: Promptly wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before reuse. If irritation persists, seek medical attention. Inhalation: Remove to fresh air. Restore breathing. Keep warm and quiet. If irritation persists, seek medical attention. Ingestion: Give large quantities of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

5. FIRE FIGHTING MEASURES

Flashpoint(Method): Positive flame extension. Lower Explosive Limit(LEL): 1.0 Upper Explosive Limit(UEL): 9.5 Autoignition Temperature: NA Fire and Explosion Hazards: Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Extinguishing Media: Water fog, Carbon Dioxide, dry chemical, foam. Fire Fighting Instructions: Full protective equipment including self-contained breathing apparatus should be used. Water spray maybe ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Keep away from heat, sparks and open flames. Keep area ventilated. Do not smoke. Avoid application to hot surfaces. Do not take internally. Keep out of reach of children. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using. Dispose of according to all Federal, State and Local Regulations.

7. HANDLING AND STORAGE

Keep away from heat, flames, sparks or other sources of ignition. Keep area ventilated. Do not smoke. Contents under pressure. Do not puncture, incinerate or expose to temperature above 120°F(49°C). Do not take internally. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Keep out of reach of children. Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Local exhaust preferable. General exhaust acceptable if the exposure to materials is maintained below applicable exposure limits. Personal Protective Equipment: Respiratory: Required for use in confined areas with no ventilation or when concentrations exceed the established exposure limits. Eye: Wear approved safety glasses with unperforated sideshields. Skin: Wear chemically resistant gloves. Other: An emergency eyewash station or source of clean potable water should be available in case of accidental eye contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light amber. Odor: Petroleum. Physical State: Liquid aerosol. Volatile Volume: 86% Product Weight: 6.16 lb/gal; 737 g/l. Specific Gravity (Water = 1): 0.74 Boiling Point: < 0 - 484°F; < -18 - 251°C Melting Point: NA Vapor Density (Air = 1): Heavier than Air. Solubility in Water: NA Evaporation Rate: Faster than Ether. VOC Content: < 50%

10. STABILITY AND REACTIVITY

Stability: Stable. Hazardous Polymerization: Will not occur. Conditions to Avoid: Heat, sparks, flames or other sources of ignition. Vapors will accumulate readily and may ignite explosively. Incompatibility: None expected. Hazardous Decomposition Products: By fire: Carbon Dioxide, Carbon Monoxide.

11. TOXICOLOGICAL INFORMATION

This product contains no ingredient listed as an IARC, NTP or OSHA carcinogen.

<u>Hazardous Ingredients</u>	<u>CAS Number</u>	<u>LD50</u>	<u>LC50</u>
Propane	74-98-6	NE	NE
Butane	106-97-8	NE	658 mg/l/4 hr (rat)
Mineral Spirits	64742-88-7	NE	NE
Heavy Aliphatic Solvent	64742-47-8	> 5000 mg/kg (oral rat)	> 2500 ppm/4 hr (rat)
Petroleum Lubricating Oil	64742-65-0	NE	NE
Calcium Dinonylnaphthalene Sulfonate	57855-77-3	NE	NE

12. ECOLOGICAL INFORMATION

NA

13. DISPOSAL CONSIDERATIONS: Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability and extractability to determine the applicable EPA hazardous waste numbers. Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State and Local Regulations.

14. TRANSPORT INFORMATION

DOT Shipping Data: Consumer Commodity, ORM-D. Canadian TDG: Shipped in accordance with 49 CFR as part of a transborder shipment authorized under Section 5.2 (1) of the Canadian Transportation of Dangerous Goods. For International and Air Shipments: Aerosols, Flammable, 2.1, UN1950.

15. REGULATORY INFORMATION

TSCA: All ingredients in this product are listed or exempt from listing on the TSCA Chemical Inventory. CEPA: All ingredients in this product are listed or exempt from listing on the Canadian DSL/NDL. Proposition 65: This product contains no chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. SARA 313: This product contains no toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR372).

HMIS Classification: Health = 2 Flammability = 4 Reactivity = 0 Personal Protection = B

WHMIS Classification: Class A; Class B, Division 5; Class D, Division 2B

16. OTHER INFORMATION

NA = Not Available or Not Applicable NE = Not Established **Read and follow all label directions and precautions before using the product. These products are intended for industrial and institutional use only. NOT FOR HOUSEHOLD USE OR RESALE KEEP OUT OF THE REACH OF CHILDREN. While we believe that the data contained herein is factual and the opinions expressed are those of qualified experts, the data are not to be taken as a warranty or representation for which the company assumes legal responsibility. They are offered solely for your consideration, investigation, and verification. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and Local Laws and regulations.**

HEALTH AND SAFETY INFORMATION: (216) 861-7114

Completed On: June 2007

Replaces: June 2004

Completed By: Regulatory Affairs Specialist