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** 24 Hour CHEMTREC Number: 800-424-9300
Product Description: A formulated penetrating compound. MSDS Number: 700114

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	Weight	ACGIH	OSHA
Medium Aliphatic Hydrocarbon Solvent	64742-88-7	< 20%	100 ppm	100 ppm
Tetrachloroethylene	127-18-4	< 80%	25 ppm	25 ppm
Carbon Dioxide	124-38-9	< 5.0%	5000 ppm	5000 ppm

3. HAZARDS IDENTIFICATION

*****EMERGENCY OVERVIEW***** Contents under pressure. Do not puncture, incinerate or expose to temperature above 120ºF(49ºC). 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 excessive exposure. Skin Contact: May cause skin irritation. Redness and itching or burning sensation may indicate excessive exposure. Inhalation: May cause irritation of the respiratory system. May cause nervous system depression. Headache, nausea, dizziness and loss of coordination are indications of excessive exposure to vapors or spray mists. Extreme overexposure may result in unconsciousness and possibly death. General: 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, consult at physician. Skin Contact: Promptly wash with soap and water and rinse thoroughly. Remove contaminated clothing and launder before reuse. If irritation persists, consult at physician. Inhalation: Remove to fresh air. Restore breathing if necessary. If irritation persists, consult a physician. Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

Flashpoint (Method): No flame extension. Non-Flammable. Lower Explosive Limit(LEL): 1.0 Upper Explosive Limit(UEL): 7.0 Autoignition Temperature: NA Fire and Explosion Hazards: Closed containers may explode, due to the build-up of pressure, when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention. Extinguishing Media: 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. Ventilate and remove with inert absorbent. Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Do not incinerate. Depressurize container. Dispose of in accordance with all Federal, State and Local Regulations regarding pollution and waste disposal.

7. HANDLING AND STORAGE

Keep away from heat, flames, sparks or other sources of ignition. Consult NFPA Code. Use approved bonding and grounding procedures. Contents under pressure. Do not puncture, incinerate or expose to temperature above 120ºF(49ºC). Heat from sunlight, radiators, stoves, hot water and other heat sources could cause container to burst. 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: If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted NIOSH-approved organic vapor/particulate respirator. Eye: Wear approved safety glasses with unperforated sideshields. Skin: Wear chemically impervious 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: Amber. Odor: Ethereal. Physical State: Liquid aerosol. pH: NA Product Weight: 10.78 lb/gal; 1291 g/l. Specific Gravity: 1.30 Boiling Point: < 0 - 360ºF; < -18 - 182ºF Volatile Volume: 92% Melting Point: NA Vapor Density: Heavier than air. Evaporation Rate: Faster than Ether. Solubility in Water: NA Vapor Pressure@70ºF: NA 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. Incompatibility: None expected. Hazardous Decomposition Products: By Fire: Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride.

11. TOXICOLOGICAL INFORMATION

Tetrachloroethylene is listed by NTP and IARC as an animal carcinogen and by OSHA as a potential human carcinogen.

Hazardous Ingredients	CAS Number	LD50	LC50
Medium Aliphatic Hydrocarbon Solvent	64742-88-7	NE	NE
Tetrachloroethylene	127-18-4	2629 mg/kg (oral rat)	5040 ppm /8 hr (rat)
Carbon Dioxide	124-38-9	NE	240 mg/l/1 hour (trout)

12. ECOLOGICAL INFORMATION

NA

13. DISPOSAL CONSIDERATIONS

Do not incinerate. Depressurize container. Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. RCRA Code for Tetrachloroethylene (Perchloroethylene) is U210. Dispose of in accordance with Federal, State and Local Regulations regarding pollution and waste disposal.

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 Shipments by Air: Aerosols, NonFlammable Containing Substances in Division 6.1, 2.2, UN1950.
For International Shipments by Vessel: Aerosols, NonFlammable Containing Substances in Division 6.1, 2.2, UN1950, Limited Quantity, Marine Pollutant.

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/NDSL.
Proposition 65: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

CHEMICAL	CAS#	Weight
Tetrachloroethylene	127-18-4	75%

SARA 313: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372.65C):

CHEMICAL	CAS#	Weight
Tetrachloroethylene	127-18-4	75%
Barium Compound	NA	3.0%

HMIS Classification: Health = 2 Flammability = 2 Reactivity = 0 Personal Protection = B
WHMIS Classification: Class A; Class D, Division 1B

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
Prepared On: November 2010 Replaces: November 2007 Completed By: Regulatory Affairs Specialist.