

NOTICE: Judgment may be based on indirect test and technical literature. The OSHA Hazard Communication Standard only requires SDS's and special labeling for materials defined as "HAZARDOUS"; see 29 CFR 1910.1200 (c). This document may be about a product which is NOT hazardous but is provided as information for our customers. See references for information.

### SECTION 1. IDENTIFICATION

Product Identifier: PDR 4000	Product Identification # (PIF): 02274
Product Use: Pipe Dope Remover	Emergency Telephone #: 1-800-424-9300
Manufactured for/Distributed by: Rig-Chem, LLC	General Information #: 958-873-7208
132 Thompson Road	Date Prepared: July 30, 2014
Houma, LA 70363	Date Revised: February 16, 2016

### SECTION 2. HAZARD(S) IDENTIFICATION

GHS Hazard Codification:



Signal Word: DANGER

Hazard Class	Category	Code	Hazard Statement
Flammable Liquid	3	H226	Flammable liquid and vapor
Aspiration Hazard	1	H304	May be fatal if swallowed and enters airways
Skin Irritation	2	H315	Causes skin irritation
Skin Sensitization	1	H317	May cause an allergic skin reaction
Hazardous to the Aquatic Environment, Long-Term Hazard	1	H410	Very toxic to aquatic life with long lasting effects

Precautionary	Code	Statement
Prevention	P210 P233 P240 P241 P242 P243 P261 P264 P272 P273 P280	Keep away from heat/sparks/open flames/hot surfaces – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing fumes/gas/mists/vapors/sprays. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	P301+P310 P331 P302+P352 P321 P333+P313 P362 P303+P361+P353 P370+P378 P391	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. IF ON SKIN: Wash with soap and water. Specific treatments: See Section 4 First Aid Measures. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. In case of fire: Use foam, dry chemical, carbon dioxide fire extinguishers or water spray for extinction. Collect spillage.
Storage	P403+P235 P405	Store in a well ventilated place. Keep Cool. Store locked up.
Disposal	P501	Dispose of contents/container in compliance with all Federal, State/Provincial and local laws and regulations.

Description of any hazards not otherwise classified: Prolonged or repeated contact may cause drying of the skin. High vapor concentrations may cause respiratory tract irritation, coughing and headache. Ingestion may cause vomiting and headache.

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Common Name	CAS #	Concentration Range %
Dipentene	Unitene	65996-99-8	88 – 92
D-Limonene	Orange Terpenes	5989-27-5	8 – 12

### SECTION 4. FIRST AID MEASURES

**Eyes:** Flush well with water for at least 15 minutes, holding eyelids open. Remove any contact lenses and continue rinsing. Seek medical attention if irritation persists.

**Skin:** Wash with soap and water. Remove contaminated clothing and launder before reuse. If irritation or rash develops and persists, seek medical attention.

**Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. If breathing is difficult, have a trained person administer oxygen. If respiration stops, have a trained person administer artificial respiration by way of pocket mask equipped with one-way valve or other proper respiratory device – Do NOT use mouth-to-mouth method if victim inhaled material. Call a physician.

Ingestion: Immediately call a POISON CENTER or doctor/physician. DO NOT INDUCE VOMITING. Rinse out mouth. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

#### SECTION 5. FIRE-FIGHTING MEASURES

Flammability: Class II Combustible Liquid

Flash Point: 117°F (47°C)

Extinguishing Media: Foam, dry chemical, carbon dioxide fire extinguishers. Do not spray water directly on fire. Use water spray to cool containers.

Specific hazards arising from chemical: Vapors are heavier than air and may travel along the ground to an ignition source. Readily ignited by static discharge.

Hazardous combustion products: Carbon monoxide and carbon dioxide.

Firefighting protective equipment: Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

Sensitivity to static discharge: This product is combustible and readily ignited even by static discharge. Grounding equipment is recommended.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment (Section 8). Keep away from heat/sparks/open flames/hot surfaces – No smoking. Ventilate area. Avoid breathing fumes/gas/mists/vapors/sprays. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

For Small Spills: Spilled material may be slippery. Avoid release to the environment. Avoid dispersal of material and runoff into soil, waterways, drains and sewers. Vapor-suppressing foam may be used to reduce vapors. Collect spillage - Absorb spill with vermiculite or other inert material, then place in a container for chemical waste with non-sparking tools. Wash walking surfaces. Dispose of contaminated absorbent material in accordance with local, state and federal regulations.

For Large Spills: Large spills cannot occur due to packaging.

#### SECTION 7. HANDLING AND STORAGE

Handling: Wear personal protection equipment (Section 8). Use with adequate ventilation. Keep away from heat/sparks/open flames/hot surfaces – No smoking. Avoid breathing fumes/gas/mists/vapors/sprays. Use proper bonding and grounding during product transfer as described in document NFPA 77. Use explosion-proof equipment and non-sparking tools. Take precautionary measures against static discharge. Vapors are heavier than air and may travel along the ground to an ignition source. Never use welding or cutting torch on or near drum (even empty) because product can ignite explosively. Avoid release to the environment – Collect spillage. Do not premix with other chemicals. Empty containers may contain residue and can be dangerous. Do not eat, drink or smoke in work areas. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Storage: Keep away from heat, flame, or sunlight. Keep cool. Keep from freezing. Keep container tightly closed when not in use. Store locked up. Store in a well-ventilated place. Protect from physical damage. Store away from strong oxidizing agents, strong acids and strong alkalis.

#### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient	CAS #	OSHA/PEL	ACGIH/TLV	STEL
Dipentene	65996-99-8	Not determined	Not determined	Not determined
D-Limonene	5989-27-5	Not determined	Not determined	Not determined

Engineering Controls: Provide adequate ventilation. Keep the risk of exposure to a minimum.

Personal protective equipment:

Eye: Safety glasses with side shields or splash proof goggles. Wear a face shield if splashing hazard exists.

Skin: Chemical resistant (impervious) gloves. Normal materials handling clothing. Wear apron if handling large amounts.

Respirator: Use NIOSH approved protection if ventilation is inadequate, or if vapors are causing irritation.

Other: Use in a well ventilated area. Do not eat, drink or smoke while handling. Wash thoroughly after handling.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue, clear liquid	Upper/Lower flammability limits	Not determined
Odor	Pine/citrus terpenes	Vapor pressure	2.67 hPa
Odor threshold	Not determined	Vapor density (Air = 1)	Not determined
pH	Not applicable	Specific gravity (water = 1.0)	0.850 g/ml
Melting point	Not determined	Solubility	Negligible in water
Freezing point	Not determined	Partition coefficient (n-octanol/water)	Not determined
Boiling point	Not determined	Auto-ignition temperature	Not determined
Flash point	117°F (47°C)	Decomposition temperature	Not determined
Evaporation rate (n-butyl acetate=1)	<1	Viscosity	Not determined
Flammability	Class II Combustible	VOC by weight	100%

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical stability: Stable under normal, ambient temperature and conditions.

Possibility of hazardous reactions: Hazardous polymerization will not occur.

Conditions to avoid: Heat, flame and sparks. Keep from freezing. Do not mix with other chemicals

Incompatible materials: Avoid strong oxidizing agents, strong acids and strong alkalis.

Hazardous combustion products: Carbon monoxide and carbon dioxide.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Toxicity:

Oral (LD50 Rat): 5000mg/kg  
 Dermal (LD50 Rabbit): Not determined  
 Inhalation (LC50 Rat): Not determined

Skin corrosion/irritation: Skin irritant. Symptoms may include skin reddening, swelling and itching. Prolonged contact may cause skin drying (dermatitis).

Serious eye damage/irritation: May cause eye irritation. Symptoms may include tearing and redness.

Respiratory or skin sensitization: High vapor concentrations may cause respiratory tract irritation, coughing and headache. May cause an allergic skin reaction with rash.

Germ cell mutagenicity: No data available

Carcinogenicity: NTP/IARC/OSHA Carcinogen: IARC Group 3 – Orange Terpenes CAS# 5989-27-5

Reproductive toxicity: Not available

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: May be fatal if swallowed and enters airways.

Ingestion: Ingestion may cause vomiting and headache.

Likely routes of exposure: Eyes, skin

Interactive effects: Not available

**SECTION 12. ECOLOGICAL INFORMATION**

Toxicity:

96h LC-50 (fish): 4.6 mg/l – D'limonene  
 96h EC-50 (invertebrates): Not determined  
 48h LC-50 (algae): Not determined

Persistence and degradability: Not determined.

Bioaccumulative potential: Not determined.

Mobility in soil: Soil mobility not determined. This product floats on water. This product is volatile and may spread in the atmosphere.

Other adverse effects: Very toxic to aquatic life with long-lasting effects. Avoid release to the environment. Collect spillage.

**SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal of Wastes: Do not dump into sewers, on the ground or into any waterways. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied. Do not cut, drill, grind or weld on or near the container.

RCRA: A waste containing this product may have the RCRA hazardous waste no. D001 (Ignitable) (40 CFR 261.22).

Other: This product contains one or more substances that are listed with the State of California as a hazardous waste.

**SECTION 14. TRANSPORT INFORMATION**

United States DOT:

Container of 119 gallons or less:

Combustible Liquid (49 CFR 173.120(b)(2): This material is not regulated under 49 CFR if in a container of 119 gallon capacity or less for ground transportation. Exception CFR 173.150(f)(2): Combustible liquids. This exception does not apply to transportation by vessel or aircraft.

Container of 120 gallons or more:

UN/ID No.: UN1993  
 Proper Shipping Name: Flammable Liquid, n.o.s., (Dipentene, Terpene Hydrocarbons)  
 Hazard Class: 3  
 Packing Group: III

IMDG & IATA:

UN/ID No.: UN1993  
 Proper Shipping Name: Flammable Liquid, n.o.s., (Dipentene, Terpene Hydrocarbons)  
 Hazard Class: 3  
 Packing Group: III  
 Marine Pollutant (IMDG Code): Dipentene CAS# 68956-56-9 – Yes (49CFR 172.101 Appendix B)  
 Transportation in bulk (IMDG - Annex II of MARPOL 73/78 and IBC Code):

Ingredient	Category	Haz	Ship	Tank	Tank Vent	Tank Cntrl	Elc Equip	Gauging	Vapor	Fire	Emrg Equip	Spec. requirement
Dipentene	Y	P	3	2G	Cont	No	No	R	F	A	No	15.19.6

**SECTION 15. REGULATORY INFORMATION**

TSCA: All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements under 40 CFR 720.30.

SARA Section 302: The components of this product are either not regulated or regulated, but present in negligible concentrations.

SARA TITLE III Section 311/312:

Immediate (Acute) Health	Yes	Fire Hazard	Yes
Delayed (Chronic) Health	No	Reactive Hazard	No

SARA Title 313: This material does not contain any chemical components with known CAS numbers that exceed the De Minimis reporting levels (40 CFR 372).

CERCLA: This product does not have a reportable quantity.

United States Right-To-Know: None known.

Proposition 65: This material does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

RCRA: A waste containing this product may have the RCRA hazardous waste no. D001 (Ignitable) (40 CFR 261.22).

SECTION 16. OTHER INFORMATION

Date Prepared: February 16, 2016 – SDS updated to meet revision #5 GHS requirements.

Hazard Ratings (HMIS): Health 2, Flammability 2, Reactivity 0 (Scale 0 – 4). Personal Protection Rating to be supplied by user based on use conditions.

Carefully read all instructions on label before handling this product.

Keep out of reach of children.

“FOR INDUSTRIAL USE ONLY”

Abbreviation	Full Name/Explanation
ACGIH	American Conference of Government Industrial Hygienists
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CNS	Central Nervous System
CFR	Code of Federal Regulations
DOT	Department of Transportation
EC	Effective Concentration
GHS	Globally Harmonized System
HMIS	Hazardous Material Information System
LC	Lethal Concentration
LD	Lethal Dose
NA	Not Applicable
ND	Not Determined
NE	Not Established
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation Recovery Act
SARA	Superfund Amendments and Reauthorization Act
STEL	Short-Term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substance Control Act
VOC	Volatile Organic Compounds

The information contained herein is based on data available to us and is believed to be correct. We make no warranty, however, expressed or implied regarding the accuracy of these data or the results obtained from the use thereof.

Regulatory Standards: DOT TITLE 49, Code of Federal Regulations 172.101: Parts 100 to 177, Revised 10/1/92.

SUPER FUND AMENDMENTS REAUTHORIZATION ACT OF 1986, TITLE III TOXIC SUBSTANCE CONTROL ACT LIST (TSCA)- INGREDIENTS LISTED. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES NATIONAL TOXICOLOGICAL PROGRAM (NTP) REPORT OF CARCINOGENS INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS, OCCUPATIONAL SAFETY & HEALTH REGULATIONS. CODE OF FED. REGS. FOOD & DRUG, 21 PARTS 170 to 199, Revised 4/1/91, 173.310.