

MATERIAL SAFETY DATA SHEET
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB. No. 1218-0072

IDENTITY (As used on Label and List): **CHEMTANE D**

Manufactured For: Chemtane Energy LLC
Address (Number, Street, City, State, and Zip): 10902 Interstate 10 East, Baytown, TX 77520
Telephone Number for Information: 281-573-1100
Emergency Telephone Number: CHEMTREC: USA 800-424-9300; INTL 703-527-3887 (Collect)

I. Product Identification

IDENTITY (As used on Label and List): CHEMTANE D

II. Composition/Information on Ingredients

<u>Ingredients</u>	<u>CAS #</u>	<u>% (weight)</u>	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>
Solvents	8052-41-3		100 ppm		
Additives			75 ppm		

III. Hazards Identification

Threshold Limit Value: 463 PPM

Route(s) of entry: Inhalation? Yes Skin? Yes Ingestion? Yes

Signs and Symptoms of Short-Term (Acute) Exposure:

Inhalation: Inhalation may cause respiratory irritation. May result in nausea, headache, weakness, and other symptoms of central nervous system depression.

Skin: May cause skin irritation, drying and cracking.

Eyes: May cause moderate to severe irritation, with pain, redness, burning and tearing.

Ingestion: May irritate mouth and digestive tract. May cause nausea, vomiting and diarrhea.

Chronic Exposure Effects: Prolonged exposure may contribute to respiratory tract irritation or central nervous system depression in high concentration. May cause skin irritation.

Medical Conditions Generally Aggravated by Exposure: Skin conditions such as eczema.

IV. First Aid Measures

Emergency and First Aid Procedures: HEALTH EMERGENCY: FLORIDA POISON CONTROL CENTER (800) 282-3171

Eyes: Flush with water for at least 15 minutes and seek immediate medical attention.

Skin: Wash with soap and large quantities of water. Seek medical attention if irritation from contact persists.

Inhalation: If breathing difficulties, dizziness, or lightheadedness occur when working in areas with high vapor concentrations, victim should seek air free of vapors. If breathing stops, begin artificial respiration and seek immediate medical attention.

Ingestion: DO NOT INDUCE VOMITING. Seek immediate medical attention.

V. Fire Fighting Measures

Flash Point (Method Used): 120°F (Pensky-Martens)
Flammable Limits: LEL: 1.0 UEL: 6
Flammability Classification (OSHA 29 CFR 1910.1200): Class III Combustible Liquid

Extinguishing Media: Foam, Carbon dioxide, or dry chemical fire fighting apparatus. (Water may be unsuitable except as a cooling agent)

Special Fire Fighting Procedures: Self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode.

Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot light, other flames, and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

OSHA 174, Sept. 1985
NFPA (NATIONAL FIRE PROTECTION ASSOCIATION STANDARD)
Health Hazard: 2 Flammability: 2 Reactivity: 0

VI. Accidental Release Measures

Keep sources of ignition and hot metal surfaces isolated from the spill. Flush spilled material into suitable retaining areas or containers with large quantities of water. Small amounts of spilled material may be absorbed into an appropriate absorbent.

VII. Handling and Storage

Handling for disposal: Handle according to recommendations below.

Methods of disposal: Dispose in accordance with all applicable federal, state, provincial and/or local regulations. Contact your local, state, provincial and/or federal environmental agency for specific rules.

Precautions to be Taken in Handling and Storing: Keep product container cool, dry and away from sources of ignition. Store in an area with adequate ventilation.

Other Precautions: Personnel should avoid inhalation of vapors. Should product splash on a person, remove saturated clothing and flush contaminated area. Launder clothing before reuse.

VIII. Exposure Controls/Personal Protection

Respiratory Protection (Specify Type): The use of respiratory protection depends on vapor concentration above the time-weighted TLV. Use a NIOSH approved cartridge respirator or gas mask.

Ventilation and engineering controls: Local Exhaust: Provide sufficient ventilation, mechanical and/or local exhaust to maintain exposure below TLV's

Skin Protection and Other Protective Equipment: The use of Nitrile rubber gloves is advised to prevent skin irritation in sensitive individuals.

Eye/Face Protection: Use goggles or face shields to safeguard against potential eye contact.

IX. Physical and Chemical Properties

Boiling Point: 318-408°F
Vapor Pressure: 2mmHg
Vapor Density (AIR = 1): 5.5

Specific Gravity (H₂O = 1): 0.79 @ 78 deg F
Melting Point: N/Av
Evaporation rate: (Ether =1) 70
(n-BuAC=1) 0.1
Viscosity (SUS @ 37.8°C) (100°F): 32.5 Secs.
Pour Point: Below -28°C (-50°F)

Percent, Volatile by Volume: 100%
Solubility in Water: 0.1
Ash Content: 0.004%

Appearance and Odor: Amber color solution having a slight characteristic odor.

X. Stability and Reactivity

Stability: Stable

Incompatibility (materials to avoid): This product is incompatible with strong oxidizing agents, strong acids or bases and selected amines.

Hazardous Decomposition or Byproducts: Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Heat, open flame and other ignition sources.

XI. Toxicological Information

Carcinogenicity: NTP? No OSHA Regulated? No

IARC Monographs? Naphthalene has been classified by the IARC as possibly carcinogenic to humans (Group 2B).

Oral Rat LD50: >7000 mg/kg
Inhalation Rat LC50: >5.04 mg/L/4H
Dermal Rat LD50: >3000 mg/kg
Dermal Rat LD50: >2000 mg/kg

XII. Ecological Information

Ecotoxicological information: The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. Do not discharge product unmonitored into the environment.

Chemical fate information: There is no data available on the product itself.

XIII. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA-approved incinerator or disposed in a RCRA-approved waste facility.

Processing, use or contamination of this product may change the waste management options.

State and local regulation disposal regulation may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with federal, state and local requirements.

XIV. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: PETROLEUM PRODUCTS N.O.S.(ALIPHATIC HYDROCARBONS)

Hazard Class: 3

UN/NA: UN1268

Packing Group: II

Information Reported for Product/Size: 200L

International (Water, I.M.O.)

Proper Shipping Name: PETROLEUM PRODUCTS N.O.S.(ALIPHATIC HYDROCARBONS)

Hazard Class: 3

UN/NA: UN1268

Packing Group: II

Information Reported for Product/Size: 200L

XV. Regulatory Information

Chemical Weapons Convention: No

TSCA 12(b): Yes

CDTA: Yes

SARA 311/312: Acute – Yes
Chronic – Yes
Fire – Yes
Pressure – No
Reactivity – No

Poison Schedule: None allocated

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and contains all of the information required by the CPR.

XVI. Other Information

NFPA Ratings: Health Hazard: 2 Flammability: 2 Reactivity: 0

Product Use: Fuel additive

Label Hazard Warning: COMBUSTIBLE. HARMFUL OR FATAL IF SWALLOWED. Contains petroleum distillates. Vapors may be harmful. Keep away from heat, sparks or flame.

Label Precautions: Keep out of reach of children.

Label First Aid: If swallowed, do not induce vomiting. Have victim rinse mouth and drink 4 cups of water. Seek medical attention immediately.

CHEMTANE ENERGY, LLC. (REV 09/09)