Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **MaxPure® PD 150, MaxPure® PD 170, MaxPure® PD 175, MaxPure® PD 185, MaxPure® PD 195, MaxPure® PD 200, MaxPure® PD 210, MaxPure® PD 215**
Synonyms: MaxPure PD Aliphatic Solvents
General Uses: Drilling and Fracking oils
Chemical Family: Petroleum Distillates, Hydrotreated
Responsible Party:

Resolute Oil, LLC
102 Magellan Circle, Suite B
Webster, TX 77598
866-690-0417
www.resoluteoil.com

Emergency Overview
24 Hour Emergency Telephone Numbers:
Spill, Leak, Fire or Accident Call CHEMTREC:
North America: (800) 424-9300
Others: (703) 527-3887 (collect)
California Poison Control System: (800) 356-3129

2. HAZARDS IDENTIFICATION

GHS Classification

Aspiration Hazard Category – 1
Flammable Liquids Category - 4
Eye Damage/Irritation Category – 2B
Skin Corrosion/Irritation Category – 2

Label Elements

Hazard Symbols:

Signal Word: DANGER – Aspiration Hazard if it enters airways
WARNING – Combustible Liquid
WARNING – Skin Irritant

Hazard Statements:
H304 May be fatal if swallowed and enters airways. Combustible liquid
H320 Causes eye irritation
H316 Causes skin irritation

Precautionary Statements:

Response:	If SWALLOWED: Immediately call a poison center or doctor/physician Do NOT induce vomiting Avoid breathing vapors. If inhaled, remove person to fresh air Wash thoroughly after handling
Storage:	Store Locked up
Disposal:	Dispose of contents / container to an approved waste disposal plant.

Supplemental Label information:

Hazard Statement:	Static Accumulating material can become electrostatically charged even in bonded and rounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Prevention:	Keep away from heat/sparks/open flame/hot surfaces. No Smoking. Ground/Bond container and receiving equipment. These alone may be insufficient to remove static electricity.
Response:	Eliminate all ignition sources if safe to do so

3. Composition/Information on Ingredients

Component	CAS#	Percent
Hydro-treated Distillate, Light	64742-47-8	100%

4. FIRST AID MEASURES

Eye: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin: Immediately wash with water and soap and rinse thoroughly. If skin irritation persists, contact a physician.

Inhalation (Breathing): First aid is not normally required. If breathing difficulties develop, move away from source and seek medical attention.

Ingestion (Swallowing): If swallowed, call a poison control center or physician. Do NOT induce vomiting.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Dry chemicals, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Unsuitable Extinguishing Media: Avoid solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture: Elevated temperatures can lead to the formation of irritating fumes and vapors. Decomposing products may include the following materials: Carbon Dioxide and Carbon Monoxide. Product is a static accumulating liquid. Static accumulating liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor may cause flash fire. Static Electricity accumulation may be increased by the presence of small quantities of water or other contaminates. Restrict flow velocity to avoid build-up of static charge.

Advice for firefighters: For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as

conditions warrant. Isolate immediate hazard area, keep unauthorized personnel out. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Wear appropriate personal protective equipment to avoid direct contact. The material will burn, but will not ignite readily. Keep all ignition sources away from the spill/release.

Environmental Precautions: Stop spill/release if it can be done safely. Product is insoluble in water, so prevent it from entering drains or water ways. Notify appropriate state and local authorities.

Method for containment and clean up: Use absorbent materials such as sand, earth or vermiculite on land spills. Use absorbent booms or skimming devices on water spills.

7. HANDLING AND STORAGE

Handling: Keep away from ignition sources. Be cautious of any drips or spills as product is extremely slippery. Do not enter confined spaces without appropriate equipment and procedures.

Storage: Store containers in a clean, dry location, away from strong sunlight and heat or flames. Keep containers sealed when not in use. Empty containers retain residue and should be handled with care and disposed of properly.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	ACGIH TLV	OSHA PEL	NIOSH REL
Distillates, petroleum, Hydro-treated Light	5 mg/m³ TWA 10 mg/m³ STEL	5 mg/m³ TWA	As Oil Mist, if generated 5mg/m³ TWA 10 mg/m³ STEL

STEL- Short Term Exposure Limit (15 minutes): TWA-Time Weighted Average

Appropriate Engineering Controls:

Consider the following when employing engineering controls and selecting personal protective equipment: Potential hazards of the material, applicable exposure limits, job activities and other substances in the work place.

If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

Personal Protective Equipment (PPE):

Respiratory: If vapor or mist is generated by heating, spraying, etc.., wear an air purifying respirator with mist filter. No special respiratory protection is normally required.

Skin: Where gloves and long sleeve clothing to minimize contact.

Eye/Face: Where glasses with side shield or goggles in case of splashing

9. PHYSICAL AND CHEMICAL PROPERTIES

**** Note – Physical and Chemical properties are provided for safety, health and environmental considerations only, and may not fully represent product specifications. Please see our Product bulletins for further information*

Appearance

Physical Form:	Liquid
Color:	Pale yellow to water white
Odor:	mild Kerosene/Petroleum odor

Other Properties:

Vapor Pressure (mm Hg):	0.4 – 2.0
Vapor Density (air=1):	>1
pH	N/A
Melting/Freezing Point:	N/A
Solubility in Water:	Insoluble
Specific Gravity:	0.79 - 0.82
Viscosity:	**>**30 SUS@100ºF
Percent Volatile:	100% by EPA Method 24
Flash Point:	>160°F / 71°C
Test Method:	Pensky Martin Closed Cup (PMCC), ASTM D93
LEL (vol % in air):	No data
UEL (vol % in air):	No data
Auto-ignition Temperature:	No data
Decomposition Temperature:	No data

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

10. STABILITY AND REACTIVITY

Reactivity:	Not chemically reactive
Chemical Stability:	Stable under normal ambient and anticipated conditions of use
Hazardous Reactions:	None, under normal processing
Conditions to Avoid:	**H**igh temperatures, flames, sparks
Materials to Avoid (Incompatible Materials):	Strong acids and oxidizing materials
Hazardous Decomposition Products:	Not anticipated under normal conditions, although carbon monoxide and carbon dioxide are a result of incomplete combustion.

11. TOXICOLOGICAL INFORMATION

Acute Dermal toxicity:	LD50 Rabbit	>2000 mg/Kg
Acute Oral toxicity:	LD50 Rat	>2000 mg/Kg
Skin Corrosion / Irritation:	May cause mild skin irritation	
Serious Eye Damage/irritation:	Causes mild eye irritation	
Respiratory Sensitization:	Not expected to be a respiratory sensitizer	
Skin Sensitization:	Not expected to be a skin sensitizer	
Germ cell mutagenicity:	**Genotoxicity in vitro** – no data available **Genotoxicity in vivo** – no data available **Assessment Mutagenicity** – no data available	
Carcinogenicity:	This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. The products have been demonstrated to contain less than 3% extractable by the IP 346 test.	
Reproductive toxicity:	**Reproductive toxicity** – no data available **Assessment reproductive toxicity** – no data available **Teratogenicity** – no data available **Assessment teratogenicity** – no data available	

Specific Target Organ Toxicity: (Single Exposure)	Not expected to cause organ effects from single exposure
Specific Target Organ Toxicity: (Repeated Exposure)	Not expected to cause organ effects from single exposure
Aspiration Hazard:	Not expected to be a hazard for static vapor at ambient temperatures. Inhalation of mist or spray may be harmful and cause pulmonary edema or aspiration pneumonia. Oil deposits in the lung may lead to fibrosis and reduced pulmonary function.

12. ECOLOGICAL INFORMATION

Aquatic toxicity

MaxPure PD 150:	96-hour LC50; Fish	>1000 mg/L
MaxPure PD 170:	96-hour LL 50; Fish 48-hour EL50; Daphnia magna	>1000 mg/L > 1000 mg/L
MaxPure PD 175:	96-hour LC 50; Fish	> 1000 mg/L
MaxPure PD 185:	96 hour LL50; Aquatic Vertebrate 7 Day EL50; Daphnia magna	18-25 mg/L 1.4- 21 mg/L
MaxPure PD 195:	96-hour LL50; Fish 48 hour EL 50; Daphnia magna	> 1000 mg/L > 1000 mg/L
MaxPure PD 200	No Data Available	
MaxPure PD 210	No Data Available	
MaxPure PD 215	96-hour LL50; Fish 48-hour LL50; Daphnia magna	> 1000 mg/L > 3000 mg/L

Persistence & Degradability	Readily degraded
Bioaccumulation potential	no data available
Mobility in soil	no data available
Other adverse effects	no data available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with appropriate local, state and federal regulations.
Empty drums/containers should be sealed and returned to a re-conditioner.

14. TRANSPORTATION INFORMATION

DOT - U.S. Department of Transportation

Shipping Description: Not regulated. Does not sustain combustion per 49CFR173.120 (b)3)
Trucking Freight description: 65 Petroleum Oil, N.O.I.B.N

15. REGULATORY INFORMATION

U.S. Federal Regulations:

SARA - Section 311/312 (Title III Hazard Categories)

Acute Hazard: Yes
Chronic Hazard: No
Fire Hazard: No
Reactive Hazard: No

SARA - Section 313 and 40 CFR 372: This product does not contain greater than 1.0% of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Par 372

SARA - Section 302 & 304 Extremely Hazardous Substances and TPQs (in pounds): This product does not contain greater than 1% of any "extremely hazardous substance" listed pursuant to Title III of Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or 304 as identified in 40 CFR Part 355, Appendix A and B.

CERCLA – This product does not contain any "hazardous substances" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4

California Proposition 65 - This product does not contain Chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels or components.

TSCA - All components are listed on the TSCA inventory.

International Regulations:

Canadian Regulations: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Domestic Substances List: Listed

WHMIS Hazard Class: Not Regulated

International Inventories:

This material is listed on the following inventories:

US (TSCA)
Australia (AICS)
New Zealand
Canada (DSL)
China
Europe (EINECS)
Korea (Existing and Evaluated Chemical Substances)

16. OTHER INFORMATION

Hazard Ratings:

	Health	Fire	Reactivity
HMIS	**1**	**1**	**0**

	Health	Fire	Physical Hazards
NFPA	**1**	**1**	**0**

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