



Safety Data Sheet

Date of Issue: July 20, 2017

Revision #: 3

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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: MaxPure® PD 230, MaxPure® PD 245, MaxPure® PD 285
Synonyms: MaxPure® Aliphatic Solvents
General Uses: Drilling, Fracking, Process Oil
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

Label Elements

Hazard Symbols:



Signal Word: DANGER – Aspiration Hazard if it enters airways

Hazard Statements: H304 May be fatal if swallowed and enters airways.

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 grounded 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, Middle	64742-46-7	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 Middle	5 mg/m ³ TWA 10 mg/m ³ STEL	5 mg/m ³ TWA	As Oil Mist, if generated 5mg/m ³ TWA 10 mg/m ³ 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: Wear gloves and long sleeve clothing to minimize contact.

Eye/Face: Wear 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: Light amber to water white
Odor: mild Kerosene/Petroleum odor

Other Properties:

Vapor Pressure (mm Hg): <1
Vapor Density (air=1): >1
pH: N/A
Melting/Freezing Point: No data
Solubility in Water: Insoluble
Specific Gravity: 0.79-0.85
Viscosity: 35 - 40 SUS@100°F
Percent Volatile: 100% on MaxSol® 230 by EPA Method 24
78% on MaxSol® 250 by EPA Method 24
68% on MaxSol® 280 by EPA Method 24
Flash Point: >225°F / 107°C
Test Method: Cleveland Open Cup (COC), ASTM D92
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: High 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: May cause 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

Not expected to cause organ effects from single exposure

**Specific Target Organ Toxicity:
(Single Exposure)**

Not expected to cause organ effects from single exposure

**Specific Target Organ Toxicity:
(Repeated 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	96 hr LL50: WAF Aquatic Vertebrates 7 Day EL50: WAF Daphnia magna 21 Day EL50: Daphnia magna	3.2 - 65 mg/L 1.4 – 210 mg/L >0.5 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

Trucking Freight description: 65 Petroleum Oil, N.O.I.B.N

Note: The provisions of 49 CFR, Part 130 apply for shipments over 3,500 bulk gallons, requiring carrier emergency plans for spills and accidents.

15. REGULATORY INFORMATION

U.S. Federal Regulations:

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

Acute Health: Yes

Chronic Health: 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

Disclaimer of Expressed and implied Warranties:

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license

Date of issue: July 20, 2017
Previous issue date: May 27, 2015
Basis for revision: Company address updated