

## 1. Product and Company Identification

**Material name** VP Lubricant Base Oils  
**Revision date** 10-31-2011  
**Version #** 01  
**Product use** Base material for the production of various lubricating oils  
**Synonym(s)** Blended Oils - VP 150 - 610 - CAS # 64741-88-4 \* Straight Cut Oils - VP 100, 165, 500, 700, 850M - CAS # 64741-88-4 \* Straight Cut Oils - VP 150 BS - CAS # 64742-01-4 \* Industrial Oils - VP 230i - 600i - CAS # 64741-88-4  
**Manufacturer/Supplier** Paulsboro Refining Company  
 800 Billingsport Road, Paulsboro  
 NJ 08066  
**Telephone:** 856-224-6605  
**Emergency** Chemtrec: 800-424-9300

## 2. Hazards Identification

**Physical state** Liquid.  
**Appearance** Clear liquid.  
**Emergency overview** Health injuries are not known or expected under normal use. Prolonged exposure may cause chronic effects.  
**OSHA regulatory status** This product is hazardous according to OSHA 29 CFR 1910.1200.  
**Potential health effects**  
**Routes of exposure** Eye contact. Skin contact.  
**Eyes** This product may cause slight irritation to the eyes.  
**Skin** Prolonged or repeated contact may dry skin and cause irritation.  
**Inhalation** Inhalation of vapors or mists of the product may be irritating to the respiratory system.  
**Ingestion** Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
**Chronic effects** Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).  
**Signs and symptoms** Prolonged or repeated skin contact may cause drying, cracking, or irritation.  
**Potential environmental effects** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	0 - 100
Distillates, petroleum, solvent refined heavy paraffinic	64741-88-4	0 - 100
Residual oils (petroleum), solvent refined	64742-01-4	0 - 100

**Composition comments** IP346 method DMSO extract for base oil substances: <3.0%.

## 4. First Aid Measures

### First aid procedures

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.  
**Skin contact** Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes. If high pressure injection under the skin occurs, always seek medical attention.  
**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. Get medical attention, if needed.

**Ingestion**

Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Get medical attention immediately.

**Notes to physician**

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

**General advice**

Get medical attention if symptoms occur. Show this safety data sheet to the doctor in attendance.

**5. Fire Fighting Measures****Flammable properties**

Not flammable by OSHA or DOT criteria.

**Extinguishing media****Suitable extinguishing media**

Water spray. Water fog. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Do not use water jet.

**Protection of firefighters****Protective equipment and precautions for firefighters**

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

**Fire fighting equipment/instructions**

Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Move containers from fire area if you can do it without risk. In the event of fire, cool tanks with water spray. Cool containers exposed to flames with water until well after the fire is out. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Water runoff can cause environmental damage. Use compatible foam to minimize vapor generation as needed.

**Specific methods**

In the event of fire and/or explosion do not breathe fumes.

**Hazardous combustion products**

Carbon monoxide. Carbon Dioxide. Sulfur oxides. Hydrocarbons.

**6. Accidental Release Measures****Personal precautions**

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. In case of spills, beware of slippery floors and surfaces. See Section 8 of the MSDS for Personal Protective Equipment.

**Environmental precautions**

Contain spillages with sand, earth or any suitable adsorbent material. Prevent spillage entering a watercourse or sewer, contaminating soil or vegetation. If this is not possible notify police and appropriate authorities immediately.

**Methods for containment**

Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Do not allow to enter drains, sewers or watercourses.

**Methods for cleaning up**

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

Large Spills: Remove with vacuum trucks or pump to storage/salvage vessels. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Clean surface thoroughly to remove residual contamination.

Dispose of waste in accordance with all applicable federal, state, local and provincial environmental regulations, per Section 13.

**7. Handling and Storage****Handling**

Keep away from heat, spark, open flames and other sources of ignition. Avoid prolonged or repeated contact with skin. Be aware of potential for surfaces to become slippery.

**Storage**

Store in a dry place. Keep away from incompatible materials, open flames and high temperatures.

**8. Exposure Controls / Personal Protection****Occupational exposure limits****US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
Oil Mist, mineral (-)	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
Oil Mist, mineral (-)	PEL	5 mg/m <sup>3</sup>	Mist.

**Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)**

Components	Type	Value	Form
Oil Mist, mineral (-)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

**Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents)**

Components	Type	Value	Form
Oil Mist, mineral (-)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

**Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)**

Components	Type	Value	Form
Oil Mist, mineral (-)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

**Mexico. Occupational Exposure Limit Values**

Components	Type	Value	Form
Oil Mist, mineral (-)	STEL	10 mg/m <sup>3</sup>	Mist.
	TWA	5 mg/m <sup>3</sup>	Mist.

**Engineering controls** Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**Personal protective equipment**

**Eye / face protection** Wear safety glasses. If splash potential exists, wear full face shield or chemical goggles.

**Skin protection** Chemical/oil resistant gloves are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Normal work clothing (long sleeved shirts and long pants) is recommended.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

**General hygiene considerations** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**9. Physical & Chemical Properties**

<b>Appearance</b>	Clear liquid.
<b>Color</b>	Straw.
<b>Odor</b>	Faint.
<b>Odor threshold</b>	Not available.
<b>Physical state</b>	Liquid.
<b>Form</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point</b>	Not available.
<b>Freezing point</b>	Not available.
<b>Boiling point</b>	650.1 - 1300.1 °F (343.4 - 704.5 °C)
<b>Flash point</b>	> 350 °F (> 176.7 °C) Open Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Vapor pressure</b>	Negligible.
<b>Vapor density</b>	Not available.
<b>Specific gravity</b>	Not available.
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.

**Decomposition temperature** Not available.

## 10. Chemical Stability & Reactivity Information

**Chemical stability** Stable under normal temperature conditions and recommended use.

**Conditions to avoid** Flames and sparks. Ignition sources. Contact with incompatible materials. Do not pressurize, cut, weld, braze, solder, drill, grind or expose empty containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death.

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition products** Carbon oxides. Sulfur oxides. Hydrocarbons.

**Possibility of hazardous reactions** Hazardous polymerization does not occur.

## 11. Toxicological Information

**Acute effects** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Sensitization** This product is not expected to cause skin sensitization.

**Chronic effects** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Prolonged inhalation may be harmful.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

**ACGIH Carcinogens**

Mineral Oil, highly refined (CAS -)	A4 Not classifiable as a human carcinogen.
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**IARC Monographs. Overall Evaluation of Carcinogenicity**

Mineral Oil, highly refined (CAS -)	3 Not classifiable as to carcinogenicity to humans.
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**Epidemiology** Pre-existing skin conditions including dermatitis might be aggravated by exposure to this product.

**Mutagenicity** No component of this product present at levels greater than or equal to 0.1% is identified as a mutagen by OSHA.

**Reproductive effects** This product is not expected to cause reproductive or developmental effects.

**Teratogenicity** Based on best current information, there is no known teratogenicity associated with this product.

**Symptoms and target organs** Symptoms may include redness, drying and cracking of the skin.

**Further information** Symptoms may be delayed.

## 12. Ecological Information

**Ecotoxicity** Oil spills are generally hazardous to the environment.

**Persistence and degradability** Not available.

**Bioaccumulation / Accumulation** No data available.

**Partition coefficient (n-octanol/water)** Not available.

**Mobility in environmental media** No data available.

## 13. Disposal Considerations

**Waste from residues / unused products** Dispose in accordance with applicable federal, state, and local regulations.

**Contaminated packaging** Dispose of empty containers according to applicable federal, state/provincial and/or local regulations.

## 14. Transport Information

**DOT**  
Not regulated as dangerous goods.

**IATA**  
Not regulated as dangerous goods.

**IMDG**  
Not regulated as dangerous goods.

**TDG**

Not regulated as dangerous goods.

**15. Regulatory Information****US federal regulations** This product is hazardous according to OSHA 29 CFR 1910.1200.**TSCA Section 12(b) Export Notification(40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)**

None

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories** Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No**Section 302 extremely hazardous substance (40 CFR 355, Appendix A)** No**Section 311/312 (40 CFR 370)** No**Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)** Not controlled**Canadian regulations** This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.**WHMIS status** Non-controlled**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**State regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.**US - California Hazardous Substances (Director's): Listed substance**

Oil Mist, mineral (CAS -) Listed.

**US - Massachusetts RTK - Substance: Listed substance**

Oil Mist, mineral (CAS -) Listed.

**Mexico regulations** This safety data sheet was prepared in accordance with the Official Mexican Standard (NOM-018-STPS-2000).**16. Other Information****Further information** Japan: MITI ENCS Number (9)-1692**Other information** HMIS® is a registered trade and service mark of the NPCA.

**HMIS® ratings**

Health: 1\*  
Flammability: 1  
Physical hazard: 0

**NFPA ratings**

Health: 1  
Flammability: 1  
Instability: 0

**Issue date**

10-31-2011