



SAFETY DATA SHEET

Issue Date 4/6/16

Revision Date 5/17/16

Version 1

1. IDENTIFICATION

Product identifier

Product Name: V.I. Plus Premium Locomotive Oil

Other means of identification

Product code: F-414 (all grades)

Synonyms: None

Recommended use of the chemical and restrictions on use

Recommended Use: Lubricant.

Uses advised against: No information available

Details of the supplier of the safety data sheet

Supplier Address

FRONTIER PERFORMANCE LUBRICANTS INC

PO BOX 1777

LODI, CA 95241

Phone: (800)-807-4496

Fax: (209)-334-6408

Emergency telephone number

Emergency Telephone: PERS (800)-633-8253

2. HAZARDS IDENTIFICATION

Classification of the Mixture

Liquid, Slight petroleum odor.

Most Important Hazards

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazard Category

Acute Oral Toxicity Category 4

Skin Irritation Category 2

Eye Irritation Category 2A

Skin Sensitization Category 1B

Signal Word

Warning!

Pictogram



Hazard Statements

Causes serious eye irritation.
Causes skin sensitization with susceptible individuals.
Causes eye, skin and respiratory tract irritation.
Harmful if swallowed.

Precautionary Statements

Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray. Use only with adequate ventilation. Do not eat, drink or smoke when using this product Wash thoroughly after handling.

Response

Contaminated work clothing must not be allowed out of the workplace. Wash contaminated clothing before reuse. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: get medical advice/attention
If on skin: wash with plenty of water.

Storage

If swallowed, call a poison center/doctor if you feel unwell

Disposal

Keep container tightly closed. Store locked up
Dispose of contents/containers in accordance with local and national regulations.

Carcinogenicity:

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by OSHA.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by NTP

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	WT %	CAS #
Distillates, hydrotreated heavy paraffinic	65-85	64742-54-7
Zinc alkyl dithiophosphate	<1	84605-29-8

To the knowledge of the supplier, there are no other ingredients in this product that are classified as hazardous.

4. FIRST AID MEASURES

Eyes	Flush eyes with running water for at least 15 minutes. If redness, burning, blurred vision or irritation persists, transport to nearest medical facility for additional treatment.
Skin	Flush skin with water, wash with soap and water. If irritation occurs, get medical attention. Remove contaminated clothing. Do not reuse clothing until cleaned. If material is injected under the skin, transport to the nearest medical facility for additional treatment. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.
Ingestion	Do NOT induce vomiting and obtain medical attention. Have victim rinse mouth out with water. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

5. FIRE-FIGHTING MEASURES

Flammable Properties	
Base Oil Flash point	>210°C (ASTM D92)
Flammable limits in air	N/A
Auto ignition temperature	N/A
Extinguishing media	CO ₂ , dry chemical, foam, alcohol-resistant foam, water mist
Special firefighting measure	Procedures for an oil fire should be utilized. Use self-contained breathing apparatus. Use foam or dry chemical to extinguish fire. Water may be used <u>only</u> to keep surrounding containers cool. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions/Procedures: Use PPE and ensure adequate ventilation.

Environmental Precautions: Should not be released into the environment.
Do not contaminate water.
Do not flush to surface water or sanitary sewer system.

Methods and Materials for Containment/Clean Up:

Contain spillage, soak up with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

7. HANDLING AND STORAGE

Handling and Storage Precautions Avoid heat, open flames, including pilot lights, and strong oxidizing agents. Use explosion-proof ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls	Use adequate ventilation to keep vapors and mists of this material below applicable standards. Recommended work place control parameters - based on mineral oil ACGIH TWA 5 mg/m ³ .
Respiratory Protection	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.
Skin Protection	Use protective clothing that is chemically resistant to this product. Acceptable materials for gloves and aprons are: neoprene, nitrile rubber or viton.
Eye Protection	Use safety glasses or goggles. Have suitable eye wash water available.
Other/General Protection	For mists and vapors: Air purifying, organic vapor cartridge, NIOSH approved respirator. Use self-contained breathing apparatus for environments with unknown concentrations or emergency situations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Color:	Amber/Brown	Vapor Pressure:	N/A	Solubility in Water:	Insoluble
Appearance:	Liquid	% Volatile by Volume:	N/A	Evaporation Rate	N/A
Odor:	Characteristic	Vapor Density (air = 1):	N/A	(Butyl Acetate = 1):	<1
Boiling Point:	N/A	Reactivity in Water:	Non-reactive	Specific Gravity:	0.80-0.91

10. STABILITY AND REACTIVITY

Stability	Stable
Conditions to avoid	Sources of ignition.
Incompatibility	Strong oxidizing or reducing agents.
Decomposition Products	Oxides of Carbon and Hydrogen.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure	Inhalation, skin, eyes and ingestion.
Potential Health Effects	
Eye Effects	Can cause irritation, redness, burns, and tissue destruction.
Skin Effects	Can cause inflammation, and significant irritation.
Oral Effects	Gastrointestinal tract irritation, nausea, and vomiting if swallowed.
Inhalation Effects	May cause respiratory tract irritation.
Chronic Health Effects	No data available to indicate product or components present in mixture are chronic health hazards.
Mutagenicity	Negative
Carcinogenicity	None anticipated
Reproductive Effects	Negative.
Teratogenicity	Negative.
Sensitization	See section 2
Toxicological Data	ATE oral is >2,000 mg/kg ATE dermal is > 4,000 mg/kg ATE inhalation (mist/aerosol) is estimated at 2.2 mg/L/4 h

12. ECOLOGICAL INFORMATION

Not classified due to inadequate data available on this mixture. Highly recommend avoidance of release to the environment.

13. DISPOSAL CONSIDERATIONS

Avoid release to the environment. Dispose in a safe manner in accordance with national, state and local regulations. Not a RCRA hazardous waste if uncontaminated. If "used" RCRA criteria must be determined. Dispose of container by recycling or if permitted incineration.

14. TRANSPORT INFORMATION

Proper Shipping Name	PETROLEUM LUBRICATING OIL; NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49 CFR.
Shipping Class	65

Dot Identification Number	N/A
Dot Shipping Label	Not regulated by DOT.
TDG Classification	Not controlled under TDG (Canada).

15. REGULATORY INFORMATION

U.S. Federal Regulatory Information

SARA 302 Threshold Planning Quantity	N/A
SARA 304 Reportable Quantity	N/A
SARA 311 Categories	
Acute Health Effects	None
Chronic Health Effects	None
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactivity Hazard	No

EPA/TSCA Inventory	Listed
EPA Hazard Classification Code	Not applicable
CERCLA	No components are subject to reporting.

SARA Title III - Section 313 Supplier Notification

No Chemicals in this product exceed the DE Minimus reporting level established by SARA Title III, Section 313 and 40 CFR 372.

WHMIS Classification WHMIS controlled. Class D; Division 2, Subdivision B: otherwise causing toxic effects.

Other Regulations All components of this formulation are listed on the CEPA-DSL (Domestic Substance List)

16. OTHER INFORMATION

NFPA Hazard Rating:

Health:	1	Slight
Flammability:	1	Slight
Reactivity:	0	Negligible

*Threshold Limit Value/Personal Exposure Limit

N/A = Not Applicable

N/E = Not Established

Issue Date	4/6/16
Revision Date	5/17/16
Revision Note	Not applicable

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet