MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

Material name Medium and Heavy Pale Oil

Version # 02

Issue date16-January-2014Revision date21-June-2014Supersedes date16-January-2014

CAS # Mixture MSDS Number 505

Synonym(s) Medium Pale Oil, Heavy Pale Oil

Manufacturer/Supplier Valero Marketing & Supply Company and Affiliates

P.O. Box 696000

San Antonio, TX 78269-6000

General Assistance 210-345-4593

Emergency 24 Hour Emergency 866-565-5220 1-800-424-9300 (CHEMTREC USA)

2. Hazards Identification

Physical state Liquid.

Appearance Oily, viscous liquid.

Emergency overview Low hazard under normal conditions.

OSHA regulatory status This product is hazardous according to OSHA 29 CFR 1910.1200.

Potential health effects

Routes of exposure None anticipated, when used as directed.

Eyes Under normal conditions of intended use, this material does not pose a eye hazard.

Skin Under normal conditions of intended use, this material does not pose a skin hazard.

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Ingestion No harmful effects expected in amounts likely to be ingested by accident.

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 naphthenic	64742-52-5	100	

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 if symptoms occur.

Skin contact Remove contaminated clothing and shoes. Wash off immediately with soap and plenty of water.

Get medical attention if irritation develops and persists. Wash clothing separately before reuse.

Destroy or thoroughly clean contaminated shoes.

Inhalation If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Ingestion First aid is normally not required. However, if greater than 1/2 liter (pint) ingested, seek medical

attention.

Notes to physician Treat symptomatically. Symptoms may be delayed.

General advice Get medical attention if symptoms occur. Wash contaminated clothing before re-use.

5. Fire Fighting Measures

Flammable properties No unusual fire or explosion hazards noted.

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Extinguishing media

Suitable extinguishing

media

Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Fire fighting

equipment/instructions

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Hazardous combustion

products

Carbon oxides. Nitrogen oxides. Phosphorus oxides.

6. Accidental Release Measures

Personal precautions Wear appropriate personal protective equipment (See Section 8).

Methods for cleaning up Absorb spill with vermiculite or other inert material, then place in a sealed container for chemical

waste

Large Spills: Flush area with water. Prevent runoff from entering drains, sewers, or streams. Dike

for later disposal.

7. Handling and Storage

Handling Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Wash thoroughly after

handling. Observe good industrial hygiene practices.

Storage Store locked up. Store in a well-ventilated place. Keep container tightly closed.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS	TWA	5 mg/m3	Inhalable fraction.
64742-52-5)			

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

Components	Туре	Value	Form	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	PEL	5 mg/m3	Mist.	
·		2000 mg/m3		

2000 mg/m3 500 ppm

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

Components	Туре	Value	Form	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m3	Mist.	
	Τ\Λ/Δ	5 ma/m3	Mict	

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Туре	Value	Form
Distillates (petroleum), hydrotreated heavy	TWA	5 mg/m3	Inhalable fraction.
naphthenic (CAS			

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

Components	Туре	Value	Form	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	

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Mexico. Occupational Exposure Limit Values

Components	Туре	Value	Form	
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	STEL	10 mg/m3	Mist.	
	TWA	5 mg/m3	Mist.	

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection Wear safety glasses with side shields (or goggles).

Skin protection Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure.

Contact glove manufacturer for specific information.

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. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Respirator type: Use NIOSH approved respirator with organic vapor/acid gas protection.

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 and protective

equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance Oily, viscous liquid.

Physical stateLiquid.FormLiquid.

Color Pale straw to amber.

Odor Petroleum-like.

Odor threshold Not available.

Ph Not available.

Vapor pressure 0.16 kPa

Vapor density Not available.

Solling point > 482 °F (> 250 °C)

Melting point/Freezing point -49 - -16 °F (-45 - -26.67 °C)

Solubility (water) Insoluble
Specific gravity 0.88 - 0.91

Flash point > 420.0 °F (> 215.6 °C) Pensky-Martens Closed Cup

Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air, lower, % by volume

Not available.

Auto-ignition temperature

> 518 °F (> 270 °C)

Partition coefficient

> 6

(n-octanol/water)

Other data

Decomposition > 536 °F (> 280 °C)

temperature

Density 940 kg/m3 @ 59°F (15°C)

Kinematic viscosity 250 - 4200 cStKinematic viscosity temp > 104 °F (> 40 °C)

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

Conditions to avoid Excessive heat.

Incompatible materials Strong oxidizing agents.

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Hazardous decomposition

No hazardous decomposition products are known.

products

Possibility of hazardous

reactions

Hazardous polymerization does not occur.

11. Toxicological Information

Not a skin sensitizer. Sensitization

Not expected to be acutely toxic. Acute effects

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

ACGIH Carcinogens

Distillates (petroleum), hydrotreated heavy naphthenic A4 Not classifiable as a human carcinogen.

(CAS 64742-52-5)

IARC Monographs. Overall Evaluation of Carcinogenicity

Distillates (petroleum), hydrotreated heavy naphthenic 3 Not classifiable as to carcinogenicity to humans.

(CAS 64742-52-5)

12. Ecological Information

This material has not been tested for environmental effects. **Ecotoxicity**

No data available. Persistence and degradability

Bioaccumulation / Has the potential to bioaccumulate.

Accumulation

Bioaccumulative potential

Octanol/water partition coefficient log Kow

Medium and Heavy Pale Oil (CAS Mixture) > 6

Mobility in environmental No data available.

media

13. Disposal Considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

When this product as supplied is to be discarded as waste, it does not meet the definition of a

RCRA waste under 40 CFR 261.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

Not regulated as a hazardous material by DOT.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

TDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

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

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate Hazard - Yes **Hazard categories**

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

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SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Not controlled

Yes

Drug Enforcement

Administration (DEA) (21 CFR

1308.11-15)

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS

contains all the information required by the CPR.

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)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

Toxic Substances Control Act (TSCA) Inventory

State regulations

US - California Hazardous Substances (Director's): Listed substance

Distillates (petroleum), hydrotreated heavy naphthenic Listed. (CAS 64742-52-5)

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

United States & Puerto Rico

US. Massachusetts RTK - Substance List

Distillates (petroleum), hydrotreated heavy naphthenic Listed. (CAS 64742-52-5)

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

Mexico regulations This safety data sheet was prepared in accordance with the Official Mexican Standard

(NOM-018-STPS-2000).

16. Other Information

NFPA Ratings



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Yes

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Disclaimer

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