

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: HEAVIES
Synonyms: Not available.
Product Use: Refinery Feedstock.
Manufacturer/Supplier: Enerchem International Inc.
 Suite 3900, Bow Valley Square 2
 205-5th Ave SW
 Calgary, Alberta
 T2P 2V7
Phone Number: 1-800-380-4580
Emergency Phone: (613) 996-6666 (CANUTEC)
Date of Preparation: December 1, 2011

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

ENTER BY HAND
 HARMFUL OR FATAL IF SWALLOWED. CAN ENTER
 LUNGS AND CAUSE DAMAGE. IRRITATING TO EYES
 AND SKIN.

Colour: Brown.
Physical State: Liquid.
Odour: Petroleum.

WHMIS	Personal Protection Equipment	TDG (Ground)
		Not regulated.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion. Skin absorption.

Eye: Irritating to eyes. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin: Irritating to skin. Signs/symptoms may include localized redness, swelling, and itching.

Ingestion: Harmful or fatal: may cause lung damage if swallowed. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

Inhalation: May cause respiratory tract irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Chronic Effects: See Section 11 for more information.

Medical Conditions Aggravated By Exposure: Not available.

Target Organs: Skin. Eyes. Gastrointestinal tract. Respiratory system. Nervous system.

Potential Environmental Effects: See Section 12 for more information.

This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR

1910.1200).

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Wt. %
Distillates (petroleum), straight-run middle	64741-44-2	10 - 30

Section 4: FIRST AID MEASURES

Eye Contact:	Flush eyes with plenty of water for at least 15 minutes. If signs/symptoms persist, get medical attention.
Skin Contact:	Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. If signs/symptoms develop, get medical attention.
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Inhalation:	Remove person to fresh air. If breathing has stopped apply artificial respiration. If signs/symptoms develop, get medical attention.
General Advice:	In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).
Note to Physicians:	Symptoms may not appear immediately.

Section 5: FIRE FIGHTING MEASURES

Flammability:	Not flammable or combustible by OSHA/WHMIS criteria.
Means of Extinction	
Suitable Extinguishing Media:	Dry chemical, water spray, foam, carbon dioxide.
Unsuitable Extinguishing Media:	Not available.
Products of Combustion:	Oxides of carbon. Aldehydes.
Protection of Firefighters:	Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and self-contained breathing apparatus.
Explosion Data	
Sensitivity to Mechanical Impact:	This material is not sensitive to mechanical impact.
Sensitivity to Static Discharge:	This material is sensitive to static discharge at temperatures above the flash point.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Eliminate all ignition sources. Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Environmental Precautions:	Keep out of drains, sewers, ditches, and waterways.
Methods for Containment:	Stop leak if without risk. Do not flush to sewer or allow to enter waterways.
Methods for Clean-Up:	Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Other Information:

Dispose of in accordance with all federal, provincial and local regulations. Comply with federal, provincial, and local requirements for spill and/or release notification.

Section 7: HANDLING AND STORAGE

Handling:

Do not swallow. Do not get in eyes, or on skin. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking. See Section 8 for information on Personal Protective Equipment.

Storage:

Store in cool, dry, well-ventilated area away from incompatible materials, heat, and sources of ignition. Keep out of the reach of children.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines
Component**

Distillates (petroleum), straight-run middle

(64741-44-2) **ACGIH:** 100 ppm (TWA); (1980); For Stoddard solvent

(64741-44-2) **OSHA:** 500 ppm (TWA), 2900 mg/m³ (TWA); For Stoddard solvent.

PEL: Permissible Exposure Limit

TLV: Threshold Limit Value

TWA: Time-Weighted Average

STEL: Short-Term Exposure Limit

C: Ceiling

Engineering Controls:

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, gas, etc.) below recommended exposure limits.

Personal Protective Equipment

Eye/Face Protection:

Wear safety glasses. Ensure that eyewash stations are close to the workstation location.

Hand Protection:

Wear impervious gloves. Consult manufacturer specifications for further information.

Skin and Body Protection:

Wear suitable protective clothing.

Respiratory Protection:

If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator or self-contained breathing apparatus should be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

General Hygiene Considerations:

Handle according to established industrial hygiene and safety practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Brown liquid.
Colour:	Brown.
Odour:	Petroleum.
Odour Threshold:	Not available.
Physical State:	Liquid.
pH:	Not available.
Viscosity:	Not available.
Melting Point:	18 °C
Boiling Point:	Not available.
Flash Point:	111 °C (PMCC)
Evaporation Rate:	< 1.0 (n-BuAc = 1)
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	< 1.0 kPa (Reid)
Vapor Density:	Not available.
Specific Gravity:	0.920 to 0.980 (Water = 1) at 15°C
Density:	920 to 980 kg/m ³ at 15°C
Solubility in Water:	Not available.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.

Section 10: STABILITY AND REACTIVITY

Stability:	Stable under normal storage conditions.
Conditions of Reactivity:	Contact with incompatible materials.
Incompatible Materials:	Strong oxidizers.
Hazardous Decomposition Products:	Not available.
Possibility of Hazardous Reactions:	None known.

Section 11: TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Toxicity

Component	CAS No.	LD₅₀ oral	LD₅₀ dermal	LC₅₀
Distillates (petroleum), straight-run middle	64741-44-2	>5000 mg/kg, (rat)	>2000 mg/kg, (rabbit)	1700 mg/m ³ , (rat), 4H

- Eye:** Irritating to eyes. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
- Skin:** Irritating to skin. Signs/symptoms may include localized redness, swelling, and itching.
- Ingestion:** Harmful or fatal: may cause lung damage if swallowed. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
- Inhalation:** May cause respiratory tract irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
- Skin Sensitization:** Not hazardous by OSHA/WHMIS criteria.
- Respiratory Sensitization:** Not hazardous by OSHA/WHMIS criteria.

EFFECTS OF CHRONIC EXPOSURE

- Target Organs:** Skin. Eyes. Gastrointestinal tract. Respiratory system. Blood. Liver. Kidneys. Nervous system.
- Chronic Effects:** Not hazardous by OSHA/WHMIS criteria. Prolonged or repeated contact may dry skin and cause irritation.
- Carcinogenicity:** Not hazardous by OSHA/WHMIS criteria.

Component Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Prop 65
Distillates (petroleum), straight-run middle	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.

- Mutagenicity:** Not hazardous by OSHA/WHMIS criteria.
- Reproductive Effects:** Not hazardous by OSHA/WHMIS criteria.
- Developmental Effects**
- Teratogenicity:** Not hazardous by OSHA/WHMIS criteria.
- Embryotoxicity:** Not hazardous by OSHA/WHMIS criteria.
- Toxicologically Synergistic Materials:** Not available.

Section 12: ECOLOGICAL INFORMATION

- Ecotoxicity:** Not available.
- Persistence / Degradability:** Not available.
- Bioaccumulation / Accumulation:** Not available.
- Mobility in Environment:** Not available.

Section 13: DISPOSAL CONSIDERATIONS

- Disposal Instructions:** Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

Section 14: TRANSPORTATION INFORMATION

CFR

Proper Shipping Name: Not regulated.
Class: Not applicable.
UN Number: Not applicable.
Packing Group: Not applicable.
Label Code: Not applicable.

TDG

Proper Shipping Name: Not regulated.
Class: Not applicable.
UN Number: Not applicable.
Packing Group: Not applicable.
Label Code: Not applicable.

Section 15: REGULATORY INFORMATION

Chemical Inventories

US (TSCA)

The components of this product are in compliance with the chemical notification requirements of TSCA.

Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

Federal Regulations

Canada

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

WHMIS Classification: Class D2B - Skin irritant.
 Class D2B - Eye irritant.

Hazard Symbols:



United States

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III Component

Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313	RCRA CODE	CAA 112(r) TQ (lbs.)
Distillates (petroleum), straight-run middle	Not listed.	Not listed.	Not listed.	Not listed.	Not listed.

State Regulations

Massachusetts

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

Component	CAS No.	RTK List
Distillates (petroleum), straight-run middle	64741-44-2	Not listed.
Toluene	108-88-3	Listed.
Benzene, ethyl-	100-41-4	Listed.

Note: E = Extraordinarily Hazardous Substance

New Jersey

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

Component	CAS No.	RTK List
Distillates (petroleum), straight-run middle	64741-44-2	Not listed.
Toluene	108-88-3	SHHS
Benzene, ethyl-	100-41-4	SHHS

Note: SHHS = Special Health Hazard Substance

Pennsylvania

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

Component	CAS No.	RTK List
Distillates (petroleum), straight-run middle	64741-44-2	Not listed.
Toluene	108-88-3	E
Benzene, ethyl-	100-41-4	E

Note: E = Environmental Hazard; S = Special Hazardous Substance

California

California Prop 65: WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Component	Type of Toxicity
Toluene	female & developmental
Benzene, ethyl-	cancer

Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his own particular use.

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Version: 1.0

MSDS Prepared by: Deerfoot Consulting Inc.

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