

MSDS - Material Safety Data Sheet**Product Name: HEAVY NAPHTHA****MSDS No.: SER07****I. Basic Information:****Manufacturer:** Silver Eagle Refining, Woods Cross Inc.**Address:** P.O. Box 870298, 2355 South 1100 West**City, ST Zip:** Woods Cross, UT 84087**Emergency Contact:** Kerry Carroll**Emergency Telephone Number:** 801-556-6494**Contact:** Kerry B. Carroll/Blaine Zwahlen**Information Telephone Number:** 801-298-3211**Last Update:** 08/31/2004**Expiration Date:****Chemical State:** Liquid Gas Solid**Chemical Type:** Pure Mixture

1	Health
2	Flammability
1	Reactivity
	Pers. Protection

II. Ingredients: Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
71432	Benzene	.8%	X				X	5 ppm	0.5 ppm	IDLH = 1	
110543	Hexane	550 PPM					X	50 ppm	50 ppm	IDLH = 1	
108883	Toluene	4.1%					X	100 ppm	50 ppm	IDLH = 5	

III. Hazardous Identification:**Hazard Category:**
 Acute Chronic Fire Pressure Reactive
Hazardous Identification Information:

Eye: Can cause eye irritation. Additional symptoms of eye exposure may include: blurred vision

Skin: May cause mild skin irritation. Prolonged or repeated contact may dry and crack the skin.

Swallowing: Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation: Breathing of vapor or mist is possible.

Symptoms of Exposure: Stomache or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), and death.

Cancer Information: Chronic occupational exposure to relatively high levels of benzene (400-800 ppm) has caused leukemia (cancer of the blood cells). Benzene is listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, and the Occupational Safety and Health Administration.

IV. First Aid Measures:**Route(s) of Entry:**

Eyes, Skin, Nose, Mouth

Health Hazards (Acute and Chronic):

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Cancer hazard. Contains benzene. May be harmful or fatal if swallowed. Aspiration hazard. Vapor harmful. Causes skin irritation. Overexposure may cause damage to the blood. Use ventilation adequate to keep exposure below recommended limits, if any. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash thoroughly after handling.

Signs and Symptoms:

Effects of overexposure may include nausea, vomiting, diarrhea and transient excitation followed by signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, disorientation and fatigue).

Medical Conditions Generally Aggravated by Exposure:

SYSTEMIC:

INHALATION OF HIGH CONCENTRATIONS OF VAPORS MAY CAUSE UNCONSCIOUSNESS, COMA, AND IN EXTREME CASES, DEATH; AT LOWER CONCENTRATIONS, DIZZINESS MENTAL CONFUSION, AND SLURRED SPEECH MANY RESULT. INGESTION OR ASPIRATION OF LIQUID CAN CAUSE CHEMICAL PNEUMONITIS AND PULMONARY EDMA.

LOCAL: IRRITATING TO SKIN, CONJUNCTIVA, AND MUCOUS MEMBRANES. DERMATITIS MAY RESULT FROM REPEATED AND PROLONGED EXPOSURE TO LIQUID.

MAY CONTAIN ISOPARAFFINS WHICH HAVE CAUSED KIDNEY DAMAGE IN MALE RATS ONLY. NO COMPARABLE HEALTH HAZARD FOR KIDNEY DISEASE IS KNOWN TO OCCUR IN HUMANS.

PRODUCT CONTAINS N HEXANE WHICH CAN PRODUCE NERVE DAMAGE WHICH RESULTS IN LOSS OF FEELING IN EXTREMITIES. CHRONIC HIGH LEVEL N HEXANE EXPOSURE DAMAGES THE NERVOUS SYSTEM INITIALLY PRODUCING A LACK OF FEELING IN THE EXTREMITIES AND POSSIBLY PROGRESSING TO A MORE SEVERE NERVE DAMAGE. INHALATION OF HIGH LEVELS (1000 AND 5000 PPM) OF N HEXANE HAS PRODUCED TESTICULAR DAMAGE IN RATS. MICE EXPOSED TO THE SAME DOSE LEVELS SHOWED NO TESTICULAR EFFECTS.

ASPIRATION: IF SEVERE, ENFORCED BED REST; ADMINISTER OXYGEN; CALL DOCTOR. INGESTION: DO NOT INDUCE VOMITING; CALL DOCTOR. EYES AND SKIN: USE PLENTY OF SOAP AND WATER; FLUSH EYES WITH PLENTY OF WATER; CALL DOCTOR.

Emergency and First Aid Procedures:

EYE CONTACT: FLUSH EYES WITH RUNNING WATER FOR AT LEAST FIFTEEN MINUTES. IF IRRITATION OR ADVERSE SYMPTOMS DEVELOP, SEEK MEDICAL ATTENTION.

SKIN CONTACT: IRRITATING; REMOVE CONTAMINATED CLOTHING; FLUSH WITH WATER. WASH SKIN WITH SOAP AND WATER FOR AT LEAST FIFTEEN MINUTES. IF IRRITATION OR ADVERSE SYMPTOMS DEVELOP, SEEK MEDICAL ATTENTION.

INHALATION: REMOVE FROM EXPOSURE. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF BREATHING CEASES, ADMINISTER ARTIFICIAL RESPIRATION FOLLOWED BY OXYGEN. SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING; USE GASTRIC LAVAGE (STOMACH WASH) FOLLOWED BY SALINE CATHARSIS.

Other Health Warnings:

THIS PRODUCT CONTAINS SUBSTANCES THAT MAY BE HARMFUL OR FATAL. HANDLE ACCORDING TO THE PROCEDURES OUTLINED IN THIS MATERIAL SAFETY DATA SHEET.

V. Fire Fighting Measures:

Flash Point: <100 F

Lower Explosive Limit: 1.3%

Upper Explosive Limit: 8.0%

F.P. Method: PMCC

Fire Extinguishing Media: DRY CHEMICAL FOAM OR CARBON DIOXIDE

Special Fire Fighting Procedures:

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For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker 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. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

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. Avoid spreading burning liquid with water used for cooling purposes.

Unusual Fire and Explosion:

VAPOR IS HEAVIER THAN AIR AND MAY TRAVEL A CONSIDERABLE DISTANCE AND FLASH BACK. FLOWING NAPHTHA CAN BE IGNITED BY SELF GENERATED STATIC.

VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

PROCEDURES IN CASE OF BREAKAGE OR LEAKAGE:

PRECAUTIONS REQUIRED IF MATERIAL IS RELEASED OR SPILLED: EVACUATE AREA OF ALL UNNECESSARY PERSONNEL. WEAR PROTECTIVE EQUIPMENT AND/OR GARMENTS DESCRIBED IN SECTION C IF EXPOSURE CONDITIONS WARRANT. SHUT OFF SOURCE, IF POSSIBLE AND CONTAIN SPILL. PROTECT FROM IGNITION. KEEP OUT OF WATER SOURCES AND SEWERS. ABSORB IN A DRY, INERT MATERIAL (SAND, CLAY, ETC). TRANSFER TO DISPOSAL DRUMS USING NON SPARKING EQUIPMENT.

VII. Handling and Storage:

Precautions to be Taken:

TRANSPORT, HANDLE AND STORE IN ACCORDANCE WITH OSHA REGULATION 1910. 106, AND APPLICABLE D.O.T. REGULATIONS.

DOT PROPER SHIPPING NAME: PETROLEUM NAPHTHA

DOT HAZARD CLASS (IF APPLICABLE): FLAMMABLE LIQUID

Other Precautions:

Handling: Containers of this material may be hazardous when emptied. Since emptied containers retain product residue (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred.

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

EYE: USE GOGGLES OR FACE SHIELD IN HEAVY EXPOSURE.

SKIN: USE PROTECTIVE GARMENTS TO PREVENT EXCESSIVE SKIN CONTACT. USE IMPERVIOUS NITRILE RUBBER GLOVES.

Personal Protective Equipment:

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RESPIRATORY: FOR CONCENTRATIONS EXCEEDING THE RECOMMENDED EXPOSURE LEVEL, USE NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR. IN CASE OF SPILL OR LEAK RESULTING IN UNKNOWN CONCENTRATION, USE NIOSH/MSHA APPROVED SUPPLIED AIR RESPIRATOR. IF CONDITIONS IMMEDIATELY DANGEROUS TO LIFE OR HEALTH (IDLH) EXIST, USE NIOSH/MSHA APPROVED SELF CONTAINED BREATHING APPARATUS (SCBA) EQUIPMENT.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV's

HSR NAPHTHA-INCLUDES COMP. LISTED BELOW
NO EXPOSURE LIMITS ESTABLISHED

BENZENE (71-4302)

OSHA VPEL 10.000 ppm - TWA (UNLESS SPECIFIED IN 1910.1028)
OSHA VPEL 50.000 ppm - STEL (UNLESS SPECIFIED IN 1910.1028)
OSHA VPEL 25.000 ppm - Ceiling (UNLESS SPECIFIED IN 1910.1028)
ACGIH TLV 0.500 ppm - TWA (SKIN)
ACGIH TLV 2.500 ppm - STEL (SKIN)

IX. Physical and Chemical Properties:

Boiling Point: 170 - 290 F @ 760 mmHg

Melting Point: N/A

Evaporation Rate (Butyl Acetate = 1): SLOWER THAN
ETHYL ETHER

Vapor Pressure (mm Hg.): 103

Specific Gravity (H2O = 1): 0.72800

Vapor Density (AIR = 1): >1

Solubility In Water: Negligible

Appearance and Odor: COLORLESS WATERY LIQUID; ODOR:
CHARACTERISTIC: GASOLINE TO KEROSENE.

Other Information: HOMOGENEOUS SOLUTION

X. Stability and Reactivity:

Stability:

Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Flammable liquid and vapor. Vapor can cause flash fire.

Incompatibility (Materials to Avoid):

CONDITIONS TO AVOID; Avoid all possible sources of ignition.
CONDITIONS TO AVOID; Avoid contact with strong oxidants
such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc.

Decomposition/By Products:

Combustion can yield carbon dioxide and carbon monoxide.

Hazardous Polymerization:

Will not occur.

XI. Toxicological Information:

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ORAL: IRRITATING TO MUCOUS MEMBRANES.

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DERMAL: DERMATITIS MAY RESULT FROM REPEATED AND PROLONGED EXPOSURE TO LIQUID.

MOUSE: INHALATION OF HIGH LEVELS (1000 AND 5000 PPM) OF N HEXANE HAS PRODUCED TESTICULAR DAMAGE IN RATS. MICE EXPOSED TO THE SAME DOSE LEVELS SHOWED NO TESTICULAR EFFECTS.

GUINEA PIG: NA

EYE: IRRITATING TO MUCOUS MEMBRANES.

XII. Ecological Information:

Spilling of gasoline can result in environmental damage. Gasoline floats on water and evaporates rapidly from water or soil surfaces. However, spilled gasoline may penetrate soil and could contaminate groundwater. Gasoline is biodegradable but in situations of low oxygen, such as in soil below grade or in groundwater, may persist for many years. Gasoline does not readily dissolve in water but will be adsorbed to soils. Gasoline in the environment can be toxic to plants and animals.

XIII. Disposal Considerations:

This material, if discarded as produced, would be a RCRA "characteristic" hazardous waste due to the characteristic(s) of ignitability (D001) and benzene (D018). If the spilled or released material impacts soil, water, or other media, characteristic testing of the contaminated materials may be required prior to their disposal. Further, this material, once it becomes a waste, is subject to the land disposal restrictions in 40 CFR 268.40 and may require treatment prior to disposal to meet specific standards. Consult state and local regulations to determine whether they are more stringent than the federal requirements. Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

XIV. Transport Information:

DOT Shipping Description: Petroleum distillates, n.o.s.,3,UN1268,II RQ*

Non-Bulk Package Marking: Petroleum distillates, n.o.s., UN1268

Non-Bulk Package Label: Flammable

Bulk Package Placard/Marking: Flammable/1268

Hazardous Substance/RQ: See section 15, CERCLA RQ's

Packaging References: 49 CFR 173.150, 173.202, 173.242

Emergency Response Guide: 128

*Enter the letters "RQ" as shown and the name or names of the hazardous substance or substances in parentheses if one or more of the hazardous substance is present in a quantity, in one package, which equals or exceeds the reportable quantity (RQ) shown for the hazardous substance.

XV. Regulatory Information:

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Acute Health: YES

Chronic Health: YES

Fire Hazard: YES

Pressure Hazard: YES

Reactive Hazard: NO

SARA 313 and 40 CFR 372:

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

Component CAS Number Weight %

Benzene 71-43-2 0.6-2

California Proposition 65:

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Component Effect

Benzene Cancer, Developmental and Reproductive Toxicant

Carcinogen Identification:

(MSDS: 780960)

Bulk Package Placard/Marking:

Non-Bulk Package Marking:

Packaging References

Note:

Non-Bulk Package Label: Flammable

49 CFR 173.150, 173.202, 173.242

Flammable/1268

Hazardous Substance/RQ See section 15, CERCLA RQ's

This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any.

EPA (CERCLA) Reportable Quantity:

RQ #1 Benzene

10 lb equal to 250 lb, (40 gal), of this material.

XVI. Other Information:

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

NONE