



Shell

MATERIAL SAFETY DATA SHEET

MSDS NUMBER ▶ 8,259

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97002 (REV 1-83)

SECTION I		NAME	24 HOUR EMERGENCY ASSISTANCE																											
PRODUCT ▶	Shell VM&P Naphtha (EOR)		SHELL	713-473-9461																										
CHEMICAL/ SYNONYMS ▶	--		CHEMTREC	800-424-9300																										
CHEMICAL FAMILY ▶	Hydrocarbon Solvent		HAZARD RATING																											
SHELL CODE ▶	83394	C.A.S. NUMBER ▶	<table border="0"> <tr> <td>LEAST</td> <td>0</td> <td>SLIGHT</td> <td>1</td> <td></td> </tr> <tr> <td></td> <td>▶</td> <td></td> <td>▶</td> <td></td> </tr> <tr> <td>MODERATE</td> <td>2</td> <td>HIGH</td> <td>3</td> <td>EXTREME</td> </tr> <tr> <td></td> <td>▶</td> <td></td> <td>▶</td> <td>▶</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>4</td> </tr> </table>			LEAST	0	SLIGHT	1			▶		▶		MODERATE	2	HIGH	3	EXTREME		▶		▶	▶					4
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				HEALTH	2																									
				FIRE	3																									
				REACTIVITY	0																									

SECTION II		INGREDIENTS	
COMPOSITION	%	TOXICITY DATA	
VM&P Naphtha (EOR)	100	Not determined.	
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Paraffins + Naphthenes	93.4		
Aromatics (Xylene)	6.6		
Benzene <0.05%v			

SECTION III HEALTH INFORMATION

Acute Toxicity: Overexposure can lead to central nervous system depression producing such effects as headache, dizziness, nausea, and loss of consciousness.

Eye Contact: Short-term liquid or vapor contact may result in slight eye irritation. Prolonged and repeated contact may be more irritating.

Skin Contact: Prolonged and repeated liquid contact can cause defatting and drying of the skin which may result in skin irritation and dermatitis.

Inhalation: High concentrations or prolonged exposure to lower concentrations may be slightly irritating to mucous membranes.

Ingestion: Liquid ingestion may result in vomiting; aspiration (breathing) of vomitus into the lungs must be avoided as even small quantities in the lungs may result in chemical pneumonitis and pulmonary edema/hemorrhage.

SECTION IV OCCUPATIONAL EXPOSURE LIMITS

None established. Recommend proposed limits for "VM&P Naphtha" only as a guide:

ACGIH-TLV/TWA = 300 ppm
 ACGIH-TLV/STEL = 400 ppm

SECTION V EMERGENCY AND FIRST AID PROCEDURES

- EYE CONTACT:** Flush with water for 15 minutes while holding eyelids open. Get medical attention.
- SKIN CONTACT:** Wash with soap and water. Remove contaminated clothing and shoes; do not reuse until cleaned. If persistent irritation occurs, get medical attention.
- INHALATION:** Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.
- INGESTION:** Do not induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention.*

*NOTE TO THE PHYSICIAN: If more than 2.0 ml per kg has been ingested and vomiting has not occurred, emesis should be induced with supervision. Keep victim's head below hips to prevent aspiration. If symptoms such as loss of gag reflex, convulsions or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal tube should be considered.

SECTION VI PHYSICAL DATA

BOILING POINT (°F) ▶ 235-284	MELTING POINT (°F) ▶ --	VAPOR PRESSURE (mmHg) ▶ 30@100°F
SPECIFIC GRAVITY (H ₂ O=1) ▶ 0.75	% VOLATILE BY VOLUME ▶ --	VAPOR DENSITY (AIR=1) ▶ 4.1
SOLUBILITY IN WATER ▶ Negligible	EVAPORATION RATE (BUTYL ACETATE=1) ▶ 1.1	

APPEARANCE AND ODOR

Colorless liquid. Typical hydrocarbon odor.

SECTION VII FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD USED 49°F (TCC)	FLAMMABLE LIMITS/% VOLUME IN AIR LOWER 0.9	UPPER 6.0
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EXTINGUISHING MEDIA

Use water fog, foam, dry chemical or CO₂. Do not use a direct stream of water. Product will float and can be reignited on surface of water.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

Evacuate hazard area of unprotected personnel. Wear proper protective clothing including a NIOSH approved self-contained breathing apparatus. Cool fire-exposed containers with water.

In the case of large fires, also cool surrounding equipment and structures with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

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SECTION VIII**REACTIVITY**STABILITY ▶ UNSTABLE STABLEHAZARDOUS POLYMERIZATION ▶ MAY OCCUR WILL NOT OCCUR**CONDITIONS AND MATERIALS TO AVOID**

Avoid heat, sparks, open flame and contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide and unidentified organic compounds may be formed during combustion.

SECTION IX**EMPLOYEE PROTECTION****RESPIRATORY PROTECTION**

If exposure may or does exceed occupational exposure limits (Sec.IV) use a NIOSH-approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

PROTECTIVE CLOTHING

Wear impervious gloves and protective clothing as required to prevent skin contact. Wear chemical goggles to prevent eye contact.

ADDITIONAL PROTECTIVE MEASURES

Use explosion-proof ventilation as required to control vapor concentrations.

SECTION X**ENVIRONMENTAL PROTECTION****SPILL OR LEAK PROCEDURES****WARNING.** Flammable. Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking.**Large spills:** Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak only if safe to do so. Dike and contain. If vapor cloud forms, water fog may be used to suppress; contain run-off. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above.**Small spills:** take up with an absorbent material and place in non-leaking containers; seal tightly for proper disposal.**WASTE DISPOSAL**

Place in a disposal facility approved under RCRA regulations for hazardous waste (See Sec. XIII). Use non-leaking containers, seal tightly and label properly.

ENVIRONMENTAL HAZARDS

This product is an "oil" and contains a hazardous substance under the Clean Water Act. KEEP OUT OF SURFACE WATERS AND ANY WATER COURSES OR SEWERS ENTERING OR LEADING TO SURFACE WATERS. See Section XIII.



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SECTION XI**SPECIAL PRECAUTIONS**

WARNING. Flammable Liquid.

Keep away from heat, sparks and open flames. Keep containers tightly closed. Store away from strong oxidizing agents in a cool, dry place with adequate explosion-proof ventilation. Ground equipment to prevent accumulation of static charge. If pouring or transferring materials, containers must be bonded and grounded.

Do NOT weld, heat or drill on or near container; even emptied containers can contain explosive vapors.

Minimize skin contact. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse.

SECTION XII**TRANSPORTATION REQUIREMENTS**

DEPARTMENT OF TRANSPORTATION CLASSIFICATION	<input checked="" type="checkbox"/> FLAMMABLE LIQUID	<input type="checkbox"/> COMBUSTIBLE LIQUID	<input type="checkbox"/> OXIDIZING MATERIAL	<input type="checkbox"/> NON-FLAMMABLE GAS
	<input type="checkbox"/> FLAMMABLE SOLID	<input type="checkbox"/> POISON, CLASS A	<input type="checkbox"/> CORROSIVE MATERIAL	<input type="checkbox"/> NOT HAZARDOUS BY D.O.T. REGULATIONS
	<input type="checkbox"/> FLAMMABLE GAS	<input type="checkbox"/> POISON, CLASS B	<input type="checkbox"/> IRRITATING MATERIAL	<input type="checkbox"/> OTHER—Specify below

D.O.T. PROPER SHIPPING NAME

Petroleum Naphtha.

OTHER REQUIREMENTS

D.O.T. ID.# = UN1255. Guide Sheet 27. RQ Xylene (1000 lb). Also see Section XIII, Clean Water Act.

SECTION XIII**OTHER REGULATORY CONTROLS**

EPA, FDA, OSHA, USDA, CPSC, etc.

EPA - Clean Water Act (CWA)

This product is classified as an oil and contains a component designated as a hazardous substance under Section 311 of the Clean Water Act. Spills entering (a) surface waters or (b) any watercourses or sewers entering/leading to surface waters that cause a sheen MUST be reported to the National Response Center, 800-424-8802. Another reportable quantity for this product is 13,100 lb (2090 gal) based upon its xylene content.

EPA - Resource Conservation and Recovery Act (RCRA) Regulations

As produced, this material is a product and not a waste. If discarded or intended to be discarded as is, it is an ignitable hazardous waste as defined in RCRA (40 CFR 261.21). The EPA hazardous waste number is D001.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.



John P. Lepesi
Manager

SHELL OIL COMPANY
PRODUCT SAFETY AND COMPLIANCE
OIL AND CHEMICAL PRODUCTS
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HOUSTON, TEXAS 77210

DATE PREPARED

June 18, 1982