

(CHEMTREC NUMBER ONLY TO BE USED IN THE EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS.)

Material Safety Data Sheet (MSDS) **HYDROCARBON LIQUIDS, N.O.S.**  
(NATURAL GASOLINE)

<u>Material</u> Hydrocarbon Liquids, N.O.S.	<u>MSDS No.</u> 1	<u>Date</u> January 31, 2006
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**MATERIAL IDENTIFICATION**

Material/Trade Name  
Hydrocarbon Liquids, N.O.S.

Synonyms  
Natural Gasoline

<u>Chemical Family/Formula</u> Hydrocarbon	<u>Hazard Rating *</u> 1 - Health 3 - Fire 0 - Reactivity • Source NFPA 704	<u>Hazard Rating Guide</u> 0 Least      3 High 1 Slight      4 Extreme 2 Moderate
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<u>CAS No.</u> 68425-31-0	<u>INGREDIENTS</u> See Composition	<u>Toxicity Data</u> N/A
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Composition  
% AND TLV OF EACH (IF APPLICABLE)

Natural Gasoline - 100%  
Liquid Hydrocarbons separated as a liquid from natural gas consisting primarily of C<sub>5</sub>-C<sub>8</sub> Hydrocarbon.  
May also contain Butane (C<sub>4</sub>).

May contain:

BENZENE Chemical Name: BENZENE CAS No. 71432	0.5 ppm 2.5 ppm 1.0 ppm 5.0 ppm 10.0 LBS	ACGIH TWA ACGIH STEL OSHA PEL OSHA PEL CERCLA 302.4 RQ
HYDROGEN SULFIDE Chemical Name: BENZENE CAS No. 7783064	10.0 ppm 15.0 ppm Table Z-2 Table Z-2 100 LBS 500 LBS 100 LBS	ACGIH TWA ACGIH STEL OSHA PEL OSHA CEILING CERCLA 302.4 RQ SARA 302 TPQ SARA 304 RQ

**COMPOSITION COMMENT:**

Refer to the OSHA Benzene Standard (29 CFR 1910.1028) and Table Z-2 for detailed training, exposure monitoring, respiratory protection and medical surveillance requirements before using this product.

**PHYSICAL DATA**

**Boiling Point**  
61°F - 275°F

**Solubility in H<sub>2</sub>O, % by Weight**  
Slight

**Specific Gravity, H<sub>2</sub>O, = 1**  
0.67 @ 15°C

**Evaporation Rate, Butyl Acetate**  
Not determined

**Vapor Pressure, MM/HG**  
13.5 psia @ 100°F (REID)

**Molecular Weight**  
N/A

**Vapor Density, Air = 1**  
N/A

**Freezing Point**  
N/A

**Appearance and Odor**  
Colorless, watery liquid, gasoline odor.

**FIRE & EXPLOSION DATA**

**Flash Point and Test Method**  
0° (-17°C) TOC

**Auto Ignition Temperature**  
Not determined

**Flammability Limits in Air,**  
**% by Volume**  
LEL - 1.3 UEL - 7.1

**Extinguishing Media**  
Dry chemical, Halon, Foam, CO<sub>2</sub>.  
Water spray or standard foam.

**Special Fire Fighting Procedures:**

Flammable liquid. Water stream may splash flaming liquid. Water may not be effective. Vapors can readily form explosive mixtures with air. Heavier than air vapors can flow along surfaces to distant ignition sources and flash back.

**Unusual Fire and Explosion Hazards:**

Keep away from heat sources, sources of ignition, and strong oxidizers.

**REACTIVITY DATA**

**Stability**  
Stable

**Hazardous Polymerization**  
Does not occur.

**Conditions and Materials to Avoid**  
Heat, Sparks, Open Flame, Oxidizers

**Hazardous Decomposition Products**  
Forms carbon monoxide and carbon dioxide during combustion along with thick black smoke.

**Occupational Exposure Limits**  
N/A

### HEALTH INFORMATION

#### Eye Contact

Can cause eye irritation.

#### Skin Contact

Can cause skin irritation and dermatitis.

#### Inhalation

Acute exposure causes irritation to upper respiratory tract, central nervous system depression, dizziness, headache. Extreme gas exposure can cause coma, respiratory arrest and irregular heartbeat.

#### Ingestion

Can cause gastronomic tract irritation and symptoms similar to inhalation. Aspiration into the lungs can cause chemical pneumonia and pulmonary edema which can be fatal.

### EMERGENCY AND FIRST AID PROCEDURES

#### Eyes

Flush with water for at least 15 minutes, or until irritation subsides, with running water holding eyelids apart for full effect of water. Seek medical attention.

#### Skin

Remove any contaminated clothing and wash skin with soap and warm water.

#### Inhalation

Remove from exposure immediately, call a physician. If breathing is irregular or stopped, start rescue breathing, if breathing is difficult or labored administer oxygen.

#### Ingestion

If swallowed, DO NOT INDUCE VOMITING. Call a physician.

### EMPLOYEE PROTECTION

#### Respiratory

Use an MSHA/NIOSH approved organic vapor cartridge air-purifying respirator for exposures over TLV. Positive pressure / Pressure Demand self-contained breathing apparatus (SCBA) or air line breathing equipment is recommended for exposures over 1000 ppm.

#### Ventilation

Local exhaust - In closed areas - Use of explosion proof electrical equipment (Class I, Division 1 Group D) mechanical ventilation equipment recommended.

#### Eye

Chemical splash goggles should be worn to protect eyes from vapors and splashes.

#### Gloves

Use Neoprene or Nitrile gloves (or other petroleum resistant glove) and protective clothing to prevent skin contact.

#### Other

A safety shower and eyewash is recommended in the area of use.

**ENVIRONMENTAL PROTECTION**

**Storage**

Store product in containers appropriate for its flammability/combustibility.

**Spill Cleanup Procedure**

Report spills to appropriate authorities. In case of accident or road spill, notify Chemtrec (800) 424-9300. If spill could reach any waterway, including intermittent dry stream beds, immediate notification of Coast Guard is required - (800) 424-8802.

**Spill or Leak**

Eliminate all ignition sources. Eliminate source of release or spill if possible. Contain spill to smallest area possible. Use absorbent materials on small spills. Runoff may create fire or explosion hazard in sewer system. Fire department should be notified immediately.

**Waste Disposal**

Large spills, once contained, should be picked up for reuse or disposal in accordance with local, state and federal laws and regulations.

**SPECIAL PROTECTION**

Precautions to be taken in Handling and Storage - Store outside if possible. Store in closed containers. No smoking in areas of use. Containers must be electrically grounded or bonded for transfer of liquid. Some hydrocarbon liquids contain hydrogen sulfide (H<sub>2</sub>S), which can be harmful or fatal. ACGIH TLV 10 ppm, OSHA PEL 10 ppm, STEL 15 ppm for 15 minutes; maximum four (4) times in an eight (8) hour day; at least one (1) hour apart. (Specific Gravity 1.189 - heavier than air) CAS No. 7783-06-4. Proper precautions should be taken in handling crude oil contaminated with H<sub>2</sub>S. H<sub>2</sub>S can cause death in concentrations of 700 ppm and higher. DO NOT DEPEND ON SENSE OF SMELL TO DETECT H<sub>2</sub>S. Respiratory protection is necessary.

**TRANSPORTATION REQUIREMENTS**

<b><u>DOT Proper Shipping Name</u></b>	<b><u>DOT I.D. No. (UN/NA)</u></b>	<b><u>North American ERG Guide No.</u></b>
Hydrocarbons, Liquids, N.O.S.	UN 3295	128

<b><u>DOT Hazard Classification</u></b>	<b><u>DOT Packaging Group</u></b>
3	PG I

**OTHER REGULATORY REQUIREMENTS**

N/A

This information relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of this company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

***INERGY SERVICES***

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(866) 295-2176 (24 – Hour Answering Service)

DATE: January 31, 2006