MATERIAL SAFETY DATA SHEET
RESCUE EMERGENCY FUEL ADDITIVE

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: RESCUE EMERGENCY FUEL ADDITIVE
Product Use: Emergency fuel additive
Synonyms: EMERGENCY FUEL, 22366

Manufacturer
Pennzoil-Quaker State Company
P.O. Box 2967
Houston, TX 77252-2967
USA

Phone Numbers
Medical Emergency: 1-800-546-6040
Transportation Emergency (USA): 1-800-468-1263
Transportation Emergency (International):
1-352-323-3500 (Call Collect)
MSDS Assistance: 1-800-546-6227
Fax On Demand: 1-800-546-6227
Technical Assistance: 1-800-458-4998
Customer Service: 1-800-468-8397
Fax Number: 713-217-3181
Internet Address: www.MSDS.PZLQS.com

2. COMPONENT INFORMATION

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Weight Percent Range</th>
<th>Hazardous in Blend</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYDROTREATED HEAVY NAPHTHA</td>
<td>64742-48-9</td>
<td>65 - 75</td>
<td>Yes</td>
</tr>
<tr>
<td>HEAVY AROMATIC SOLVENT NAPHTHA</td>
<td>64742-94-5</td>
<td>25 - 35</td>
<td>Yes</td>
</tr>
</tbody>
</table>

This product is HAZARDOUS according to OSHA 29 CFR 1910.1200.

Hazard:
Flammable/Combustible X Acute Toxin X Chronic Toxin Carcinogen
Pressure Reactive Exposure Limit X Target Organ Other

Other: This product contains petroleum naphthas and/or solvents which are a complex blend of light petroleum distillates.

3. HAZARDS IDENTIFICATION

Emergency and Hazards Overview
DANGER: HARMFUL OR FATAL IF SWALLOWED. COMBUSTIBLE.

NFPA Ratings: Health 1 Flammability 2 Reactivity 0

Primary Route of Exposure: Skin X Inhalation ___ Eye ___

Health Effect Information
Eye Contact: Avoid eye contact. This product may be slightly irritating to the eyes upon direct contact.
Based on testing of similar products and/or components. Exposure to high concentrations of vapors may be irritating to the eyes.

Skin Contact: Avoid skin contact. This product may cause slight skin irritation upon direct contact.
Based on testing of similar products and/or components. Prolonged or repeated skin contact may result in dryness, chapping, and reddening. May be absorbed through skin.
**Inhalation:** This product is not expected to pose an inhalation hazard under conditions of foreseeable use. Avoid prolonged inhalation of vapors. This product may be considered a low health hazard unless inhaled in very high concentrations. Acute and chronic exposure to vapors may be irritating to the respiratory tract. Severe intoxication may lead to drowsiness, dullness, numbness, and headache followed by dizziness, weakness, and nausea. Intentional misuse by deliberately concentrating and inhaling this product can be harmful or fatal.

**Ingestion:** Do not ingest. Ingestion is expected to be relatively non-toxic unless aspiration occurs. Aspiration may lead to chemical pneumonitis which is characterized by pulmonary edema and hemorrhage and may be fatal. Signs of lung involvement include increased respiratory rate, increased heart rate, and a bluish discoloration of the skin. Coughing, choking, and gagging are often noted at the time of aspiration. Gastrointestinal discomfort may develop, followed by vomiting with a further risk of aspiration. Severe oral intoxication will lead to intense burning of the throat and may result in drowsiness, dullness, numbness, and headache followed by dizziness, weakness, and nausea. Loss of consciousness and convulsions followed by death may result.

**Medical Conditions Aggravated by Exposure:** Drying and chapping may make the skin more susceptible to other irritants, sensitizers and disease.

**Other:** No information available

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**4. FIRST AID INFORMATION**

**Eye Contact:** Immediately flush eyes with large amounts of water and continue flushing until irritation subsides. If irritation persists, seek medical attention.

**Skin Contact:** No treatment is necessary under ordinary circumstances. Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs and persists, seek medical attention. Use a hand or skin lotion to prevent dryness.

**Inhalation:** If victim exhibits signs of vapor intoxication remove to fresh air. If discomfort persists seek medical attention.

**Ingestion:** Do not induce vomiting due to aspiration hazard. If vomiting occurs lower head below knees to avoid aspiration. Seek immediate medical attention.

**Notes to Physician:** No information available

**Other:** No information available

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**5. FIRE AND EXPLOSION INFORMATION**

**Flammable Properties**

- **Flash Point:** 144 F, 62.2 C
- **Flammable Limits in Air**
  - **Upper Percent:** No data available
  - **Lower Percent:** No data available
- **Autoignition Temperature:** No data available

**Test Method:** ASTM D-56 (T.C.C.)

**NFPA Classification:** Class III-A combustible liquid

**Extinguishing Media:** Use water spray (fog), dry chemical, foam, or carbon dioxide.

**Fire Fighting Measures**

- **Special Fire Fighting Procedures and Equipment:** No special fire fighting procedures are required.
Unusual Fire and Explosion Conditions: Dense smoke may be generated while burning. Carbon monoxide, carbon dioxide, and other oxides may be generated as products of combustion.

Hazardous Combustion By-Products: None

Other: No information available

6. ACCIDENTAL RELEASE MEASURES


Regulatory Notifications: No notification required

Containment and Clean up: Do not allow spill to enter sewers or watercourses. Absorb with solvent absorbent material.

Other: No information available

7. HANDLING AND STORAGE INFORMATION

Handling: All ignition sources in the area should be controlled. Do not open or use in unventilated, enclosed or confined spaces.

Storage: Do not transfer to unmarked containers. Store in a cool, well ventilated area in closed containers away from heat, sparks, open flame or oxidizing materials.

Empty Container Warnings
Drums: Not applicable
Plastic: Empty container may retain product residues. Do not reuse this container.

Other: No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

<table>
<thead>
<tr>
<th>Exposure Limit</th>
<th>Component</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA - PEL: TWA 500 ppm</td>
<td>HYDROTREATED HEAVY NAPHTHA</td>
<td>64742-48-9</td>
</tr>
<tr>
<td>ACGIH - TLV: TWA 100 ppm</td>
<td>HEAVY AROMATIC SOLVENT NAPHTHA</td>
<td>64742-94-5</td>
</tr>
</tbody>
</table>

Personal Protective Equipment

Eye/Face Protection: Eye protection is not required under conditions of normal use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.

Skin Protection: No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc.) over parts of the body subject to exposure. Launder soiled clothes.

Respiratory Protection: Respiratory protection is not required under conditions of normal use. If excessive levels of mists or vapors are generated while using this product, use an organic vapor respirator. All respirators must be NIOSH certified. See Section 3, Health Effect Information, Inhalation.
Personal Hygiene: Consumption of food and beverage should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, or smoking.

Engineering Controls / Work Practices
Ventilation: General room ventilation is normally sufficient to prevent buildup of hazardous concentrations. If product is used in enclosed or confined spaces, adequate ventilation must be provided to prevent buildup of vapors or mists.

Other: The OSHA PEL and ACGIH TLV for stoddard solvent is 525 mg/m3. NIOSH recommended limits for petroleum distillates are 350 mg/m3 (10-hr TWA) and 1800 mg/m3 (15-min ceiling).

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
</tr>
<tr>
<td>Odor: Hydrocarbon</td>
<td></td>
</tr>
<tr>
<td>Physical state: Liquid</td>
<td></td>
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<tr>
<td>pH: No data available</td>
<td></td>
</tr>
<tr>
<td>Boiling Point: IBP 337 F, 169.4 C</td>
<td></td>
</tr>
<tr>
<td>Melting Point: No data available</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity: 0.8</td>
<td></td>
</tr>
<tr>
<td>Pour Point: -87 F, -66.1 C</td>
<td></td>
</tr>
<tr>
<td>Solubility in Water: &lt; 0.1%</td>
<td></td>
</tr>
<tr>
<td>Octanol / Water Coefficient: Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Molecular Weight: Apx 160</td>
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</tr>
<tr>
<td>Vapor Pressure: 1 mm Hg @ 68 F</td>
<td></td>
</tr>
<tr>
<td>Vapor Density (air=1): &gt; 1</td>
<td></td>
</tr>
<tr>
<td>Percent Volatile by Volume: No data available</td>
<td></td>
</tr>
<tr>
<td>Volatile Organic Content: No data available</td>
<td></td>
</tr>
<tr>
<td>Viscosity @ 100 F: No data available</td>
<td></td>
</tr>
<tr>
<td>Viscosity @ 40 C: Apx 1.3 cSt</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY INFORMATION

Chemical Stability: Stable

Conditions to Avoid: Keep away from heat, sparks, open flames and other ignition sources.

Incompatible Materials to Avoid: May react with strong oxidizing agents.

Other: No information available

11. TOXICOLOGICAL INFORMATION

Primary Eye Irritation: No information available

Primary Skin Irritation: No information available

Acute Dermal Toxicity: No information available

Subacute Dermal Toxicity: No information available

Dermal Sensitization: No information available

Inhalation Toxicity: No information available

Inhalation Sensitization: No information available

Oral Toxicity: No information available
Mutagenicity: No information available

Carcinogenicity: Light hydrocarbons such as stoddard solvent, VM & P naphtha and C10-C11 isoparaffins have produced kidney damage in male rats, but not in female rats or mice. The Environmental Protection Agency (EPA) has concluded that rat kidney damage and tumors induced by light petroleum hydrocarbons are not relevant to humans. Various naphthas tested were not carcinogenic in mouse skin painting studies conducted by the American Petroleum Institute (API). The International Agency for Research on Cancer (IARC) has concluded that petroleum solvents are Group 3 substances, "not classifiable as to their carcinogenicity to humans".

Reproductive and Developmental Toxicity: No information available

Teratogenicity: No information available

Immunotoxicity: No information available

Neurotoxicity: No information available

Other: No information available

12. ECOLOGICAL INFORMATION

Aquatic Toxicity: May be toxic to aquatic organisms.

Terrestrial Toxicity: No information available

Chemical Fate and Transport: This substance is expected to biodegrade at a moderate rate and be "inherently" biodegradable according to OECD guidelines.

Other: No information available

13. DISPOSAL INFORMATION

Regulatory Information: Dispose of residual products and empty containers responsibly. Refer to state and local regulations for additional disposal requirements.

Waste Disposal Methods: Waste material may be landfilled or incinerated at an approved facility. The discarded material should be recycled if possible.

Other: No information available

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT)
Highway / Rail (Bulk): Not Regulated
Highway / Rail (Non-Bulk): Not Regulated

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for all shipping descriptions.
MATERIAL SAFETY DATA SHEET
RESCUE EMERGENCY FUEL ADDITIVE

International Information
Vessel: IMDG Regulated: IMDG Not Regulated: X
Air: ICAO Regulated: ICAO Not Regulated: X

Other: No information available

15. Regulatory Information

Regulatory Lists Searched: The components listed in Section 2 of this MSDS were compared to substances that appear on the following regulatory lists. Each list is numerically identified. See Regulatory Search Results below.


Environmental: 30 - CAA 1990 Hazardous air pollutants, 31 - CAA Ozone depleters, 33 - CAA HON rule, 34 - CAA Toxic substance for accidental release prevention, 35 - CAA Volatile organic compounds (VOC's) in SOCMIL, 41 - CERCLA / SARA Section 302 extremely hazardous substances, 42 - CERCLA / SARA Section 313 emissions reporting, 43 - CWA Hazardous substances, 44 - CWA Priority pollutants, 45 - CWA Toxic pollutants, 46 - EPA Proposed test rule for hazardous air pollutants, 47 - RCRA Basis for listing - Appendix VII, 48 - RCRA waste, 49 - SDWA - (S)MCLs

International: 50 - Canada - WHMIS Classification of substance, 54 - Mexico - Drinking water - ecological criteria, 55 - Mexico - Wastewater discharges, 56 - US - TSCA Section (12)(b) - export notification


Inventories: 80 - Canada - Domestic substances, 81 - European - EINECS, 82 - Japan - ENCS, 83 - Korea - Existing and evaluated chemical substances, 84 - US - TSCA

Regulatory Search Results:
HEAVY AROMATIC SOLVENT NAPHTHA: 50, 80, 81, 83, 84
HYDROTREATED HEAVY NAPHTHA: 80, 81, 83, 84

U.S. TSCA Inventory: All components of this material are on the US TSCA Inventory.

SARA Section 313: Consumer products are not regulated under SARA, Title III, Section 313.

IARC: Group 3 - Not classifiable as to its carcinogenicity to humans.

SARA 311 / 312 Categories
Acute: X Chronic: _ Fire: X Pressure: _ Reactive: _
Not Regulated: ___

Canadian WHMIS Classification
Class B - Flammable and Combustible Material, Division 3, Combustible Liquid
Class D - Poisonous and infectious material, Division 2B, Toxic Material

European Union Classification
Hazard Symbols:
Harmful / Xn / X in square.
Risk Phrases:
R65: Harmful; may cause lung damage if swallowed.
R66: Repeated exposure may cause skin dryness or cracking.
R67: Vapours may cause drowsiness and dizziness.
R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.

Safety Phrases:
S2: Keep out of the reach of Children.
S23: Do not breathe gas/fumes/vapour/spray.
S24: Avoid contact with skin.
S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Other: No information available

16. OTHER INFORMATION

Health and Environmental Label Language
Front Label:
DANGER: HARMFUL OR FATAL IF SWALLOWED. COMBUSTIBLE.
Read carefully other cautions on back.

Back Label:
DANGER: Contains petroleum distillates. Prolonged and repeated skin contact may cause drying of skin.

PRECAUTIONARY MEASURES: Keep away from heat, sparks, flame and other ignition sources. Avoid breathing of mists and vapors. Use only in well ventilated areas. Keep container closed. Avoid skin and eye contact. Wash thoroughly after handling.

FIRST AID: If swallowed, do not induce vomiting. Call physician immediately. If inhaled, breathe fresh air. For skin or eye contact, wash thoroughly with water.

KEEP OUT OF REACH OF CHILDREN.

MSDS Revisions
Previous Version Date: 5/9/01

Previous Version Information: Revised all sections, new 16 section MSDS format.

Other: No information available

Prepared By:
Pennzoil-Quaker State Company
Environmental, Safety, Health, & DOT Compliance
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Houston, TX 77252-2967 USA
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