# Red Gage Fluid

## Safety Data Sheet

**Revision date:** 5/14/2013

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product name:** Red Gage Fluid

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Use of the substance/mixture:** Gage Fluid

### 1.3. Details of the supplier of the safety data sheet

Dwyer Instruments, Inc.
102 Highway 212
Michigan City, IN 46361
T 219-879-8868 - F 219-872-9057

### 1.4. Emergency telephone number

**Emergency number:** Call CHEMTREC day or night. Domestic North America call- 800-424-9300; International call - 703-527-3887 (collect accepted)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**

- Flam. Liq. 4 H227
- Carc. 1B H350
- Asp. Tox. 1 H304

### 2.2. Label elements

**GHS-US labelling**

- **Hazard pictograms (GHS-US):**

- **Signal word (GHS-US):** Danger
- **Hazard statements (GHS-US):**
  - H227 - Combustible liquid
  - H304 - May be fatal if swallowed and enters airways
  - H350 - May cause cancer
- **Precautionary statements (GHS-US):**
  - P201 - Obtain special instructions before use
  - P202 - Do not handle until all safety precautions have been read and understood
  - P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection
  - P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
  - P308+P313 - IF exposed or concerned: Get medical advice/attention
  - P309 - If not allowed to inhaled: Fresh air
  - P331 - If swallowed, do NOT induce vomiting
  - P332 - Take off and wash hands
  - P370+P378 - In case of fire: Use ... for extinction
  - P403+P235 - Store in a well-ventilated place. Keep cool
  - P405 - Store locked up
  - P501 - Dispose of contents/container to ...

### 2.3. Other hazards

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

No data available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated light</td>
<td>(CAS No.) 64742-47-8</td>
<td>40-70</td>
<td>Not classified</td>
</tr>
<tr>
<td>Distillates, petroleum, hydrotreated light naphthenic</td>
<td>(CAS No.) 64742-53-6</td>
<td>1-5</td>
<td>Not classified</td>
</tr>
<tr>
<td>C.I. Solvent Red 164</td>
<td>(CAS No.) 71519-51-7</td>
<td>0.1-1</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

First-aid measures after skin contact: For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

First-aid measures after eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention or advice.

First-aid measures after ingestion: If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: May cause respiratory tract irritation.

Symptoms/injuries after skin contact: May cause skin irritation.

Symptoms/injuries after eye contact: May cause eye irritation.

Symptoms/injuries after ingestion: Not considered a likely route of exposure under normal product use conditions. May be fatal if swallowed and enters airways.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use foam, dry chemical or water spray to extinguish fire.

Unsuitable extinguishing media: None.

5.2. Special hazards arising from the substance or mixture

Fire hazard: None known.

Explosion hazard: None known.

5.3. Advice for firefighters

Protection during firefighting: Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Avoid contact with the skin and the eyes. Wear appropriate protective clothing and respiratory protection for the situation.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment: Stop the flow of material, if this is without risk.

Methods for cleaning up: Absorb spill with inert material. Shovel or sweep up and put in a closed container for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep the container tightly closed and in a cool, well-ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No exposure limits have been established for any of this product's components.
8.2. Exposure controls

Appropriate engineering controls: Ensure exposure is below occupational exposure limits (where available).
Hand protection: Use impervious gloves such as neoprene, nitrile, or rubber for hand protection.
Eye protection: Wear safety glasses; chemical goggles (if splashing is possible).
Skin and body protection: Wear suitable protective clothing.
Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Red</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>5.78</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>162°F</td>
</tr>
<tr>
<td>Self-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>0.826</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

Avoid heat, open flames and ignition sources.

10.5. Incompatible materials

Oxidizing materials.

10.6. Hazardous decomposition products

Decomposes to form toxic compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified
### Petroleum distillates, hydrotreated light (64742-47-8)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 5.2 mg/l (Exposure time: 4 h)</td>
</tr>
</tbody>
</table>

### Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)

<p>| | |</p>
<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>2.18 mg/l (Exposure time: 4 h)</td>
</tr>
</tbody>
</table>

#### Skin corrosion/irritation
- Not classified

#### Serious eye damage/irritation
- Not classified

#### Respiratory or skin sensitisation
- Not classified

#### Germ cell mutagenicity
- May cause cancer.

#### Reproductive toxicity
- Not classified

#### Specific target organ toxicity (single exposure)
- Not classified

#### Specific target organ toxicity (repeated exposure)
- Not classified

#### Aspiration hazard
- May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

#### 12.1 Toxicity

##### Petroleum distillates, hydrotreated light (64742-47-8)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>4720 mg/l (Exposure time: 96 h - Species: Daphnia magna)</td>
</tr>
<tr>
<td>LC50 fish 2</td>
<td>2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])</td>
</tr>
</tbody>
</table>

##### Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fishes 1</td>
<td>&gt; 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>&gt; 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
</tbody>
</table>

#### 12.2 Persistence and degradability
- No additional information available

#### 12.3 Bioaccumulative potential

##### Petroleum distillates, hydrotreated light (64742-47-8)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BCF fish 1</td>
<td>61 - 159</td>
</tr>
</tbody>
</table>

#### 12.4 Mobility in soil
- No additional information available

#### 12.5 Other adverse effects
- No additional information available

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste disposal recommendations: Dispose of contents/container in accordance with local/regional/national/international regulations.

### SECTION 14: Transport information

In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA

#### 14.1 UN number

DOT NA no. NA1993

#### 14.2 UN proper shipping name

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Proper Shipping Name</td>
<td>Combustible liquid, n.o.s. (Petroleum distillates, hydrotreated light)</td>
</tr>
<tr>
<td>Department of Transportation (DOT) Hazard Classes</td>
<td>3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120</td>
</tr>
<tr>
<td>DOT Symbols</td>
<td>D - Proper shipping name for domestic use only, or to and from Canada,G - Identifies PSN requiring a technical name</td>
</tr>
<tr>
<td>Packing group (DOT)</td>
<td>III - Minor Danger</td>
</tr>
</tbody>
</table>
DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T1 - 1.5 178.274(d)(2) Normal............... 178.275(d)(2)
T4 - 2.65 178.274(d)(2) Normal............... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241

14.3. Additional information

Other information : No supplementary information available.

Overland transport
No additional information available

Transport by sea
DOT Vessel Stowage Location : A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

Air transport
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L

SECTION 15: Regulatory information

15.1. US Federal regulations

Petroleum distillates, hydrotreated light (64742-47-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

Petroleum distillates, hydrotreated light (64742-47-8)
Listed on the Canadian DSL (Domestic Substances List) inventory.

Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)
Listed on the Canadian DSL (Domestic Substances List) inventory.

15.3. US State regulations

Distillates, petroleum, hydrotreated light naphthenic (64742-53-6)

U.S. - Massachusetts - Right To Know List

SECTION 16: Other information

Full text of H-phrases:

Asp. Tox. 1 : Aspiration hazard Category 1
Carc. 1B : Carcinogenicity Category 1B
Flam. Liq. 4 : Flammable liquids Category 4
H304 : May be fatal if swallowed and enters airways
H350 : May cause cancer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.